
Alexa Skills Kit SDK for Python Documentation

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Alexa Skills Kit

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SDK API Reference

1	Runtime	3
2	Core	15
3	DynamoDb Persistence Adapter	35
4	Standard	39
5	Webservice Support and Framework Adapters	43
6	S3 Persistence Adapter	51
7	SMAPI	53
8	Models Runtime :ask_sdk_model_runtime package	55
9	Models :ask_sdk_model package	65
10	ASK SMAPI Models :ask_smapi_model package	333
11	Got Feedback?	559
12	Additional Resources	561
13	Indices and tables	563
	Python Module Index	565
	Index	581

The **ASK SDK for Python** makes it easier for you to build highly engaging skills, by allowing you to spend more time on implementing features and less on writing boiler-plate code.

The SDK documentation has been moved to developer docs. Please check [here](#) for the latest documentation.

1.1 Request Dispatch Components

1.1.1 Abstract Classes

class `ask_sdk_runtime.dispatch.AbstractRequestDispatcher`

Bases: `object`

Dispatcher which handles dispatching input request to the corresponding handler.

User needs to implement the `dispatch` method, to handle the processing of the incoming request in the handler input. A response may be expected out of the `dispatch` method.

dispatch (*handler_input*)

Dispatches an incoming request to the appropriate request handler and returns the output.

Parameters `handler_input` (`Input`) – generic input to the dispatcher

Returns generic output returned by handler in the dispatcher

Return type `Union[None, Output]`

class `ask_sdk_runtime.dispatch_components.request_components.AbstractRequestHandler`

Bases: `typing.Generic`

Request Handlers are responsible for processing dispatch inputs and generating output.

Custom request handlers needs to implement `can_handle` and `handle` methods. `can_handle` returns True if the handler can handle the current input. `handle` processes the input and may return a output.

can_handle (*handler_input*)

Returns true if Request Handler can handle the dispatch input.

Parameters `handler_input` (`Input`) – Generic input passed to the dispatcher.

Returns Boolean value that tells the dispatcher if the current input can be handled by this handler.

Return type `bool`

handle (*handler_input*)

Handles the dispatch input and provides an output for dispatcher to return.

Parameters `handler_input` (`Input`) – Generic input passed to the dispatcher.

Returns Generic Output for the dispatcher to return or None

Return type `Union[Output, None]`

class `ask_sdk_runtime.dispatch_components.request_components.AbstractRequestInterceptor`
 Bases: `typing.Generic`

Interceptor that runs before the handler is called.

The `process` method has to be implemented, to run custom logic on the input, before it is handled by the Handler.

process (*handler_input*)

Process the input before the Handler is run.

Parameters `handler_input` (`Input`) – Generic input passed to the dispatcher.

Return type `None`

class `ask_sdk_runtime.dispatch_components.request_components.AbstractResponseInterceptor`
 Bases: `typing.Generic`

Interceptor that runs after the handler is called.

The `process` method has to be implemented, to run custom logic on the input and the dispatch output generated after the handler is executed on the input.

process (*handler_input, response*)

Process the input and the output after the Handler is run.

Parameters

- **handler_input** (`Input`) – Generic input passed to the dispatcher.
- **response** (`Union[None, Output]`) – Execution result of the Handler on dispatch input.

Return type `None`

class `ask_sdk_runtime.dispatch_components.request_components.AbstractRequestHandlerChain`
 Bases: `object`

Abstract class containing Request Handler and corresponding Interceptors.

request_handler ()

Returns Registered Request Handler instance.

Return type `object`

request_interceptors ()

Returns List of registered Request Interceptors.

Return type `list(ask_sdk_runtime.dispatch_components.request_components.AbstractRequestInterceptor)`

response_interceptors ()

Returns List of registered Response Interceptors.

Return type `list(ask_sdk_runtime.dispatch_components.request_components.AbstractResponseInterceptor)`

class `ask_sdk_runtime.dispatch_components.request_components.AbstractRequestMapper`
 Bases: `object`

Class for request routing to the appropriate handler chain.

User needs to implement `get_request_handler_chain` method, to provide a routing mechanism of the input to the appropriate request handler chain containing the handler and the interceptors.

get_request_handler_chain (*handler_input*)

Get the handler chain that can process the handler input.

Parameters `handler_input` (`Input`) – Generic input passed to the dispatcher.

Returns Handler Chain that can handle the request under dispatch input.

Return type `AbstractRequestHandlerChain`

class `ask_sdk_runtime.dispatch_components.request_components.AbstractHandlerAdapter`
 Bases: `object`

Abstracts handling of a request for specific handler types.

supports (*handler*)

Returns true if adapter supports the handler.

This method checks if the adapter supports the handler execution. This is usually checked by the type of the handler.

Parameters `handler` (`object`) – Request Handler instance.

Returns Boolean denoting whether the adapter supports the handler.

Return type `bool`

execute (*handler_input, handler*)

Executes the handler with the provided dispatch input.

Parameters

- `handler_input` (`Input`) – Generic input passed to the dispatcher.
- `handler` (`object`) – Request Handler instance.

Returns Result executed by passing `handler_input` to `handler`.

Return type `Union[None, Output]`

class `ask_sdk_runtime.dispatch_components.exception_components.AbstractExceptionHandler`
 Bases: `typing.Generic`

Handles exception types and optionally produce an output.

The abstract class is similar to Request Handler, with methods `can_handle` and `handle`. The `can_handle` method checks if the handler can support the input and the exception. The `handle` method processes the input and exception, to optionally produce an output.

can_handle (*handler_input, exception*)

Checks if the handler can support the exception raised during dispatch.

Parameters

- `handler_input` (`Input`) – Generic input passed to the dispatcher.
- `exception` (`Exception`) – Exception raised during dispatch.

Returns Boolean whether handler can handle exception or not.

Return type `bool`

handle (*handler_input*, *exception*)

Process the dispatch input and exception.

Parameters

- **handler_input** (*Input*) – Generic input passed to the dispatcher.
- **exception** (*Exception*) – Exception raised during dispatch.

Returns Optional output object to serve as dispatch return.

Return type Union[None, Output]

class `ask_sdk_runtime.dispatch_components.exception_components.AbstractExceptionHandler`
 Bases: `typing.Generic`

Mapper to register custom Exception Handler instances.

The exception mapper is used by `ask_sdk_runtime.dispatch.GenericRequestDispatcher` dispatch method, to handle exceptions. The mapper can contain one or more exception handlers. Handlers are accessed through the mapper to attempt to find a handler that is compatible with the current exception.

get_handler (*handler_input*, *exception*)

Returns a suitable exception handler to dispatch the specified exception, if one exists.

Parameters

- **handler_input** (*Input*) – Generic input passed to the dispatcher.
- **exception** (*Exception*) – Exception thrown by `ask_sdk_runtime.dispatch.GenericRequestDispatcher` dispatch method.

Returns Exception Handler that can handle the input or None.

Return type Union[None, *AbstractExceptionHandler*]

1.1.2 Implementations

class `ask_sdk_runtime.dispatch.GenericRequestDispatcher` (*options*)

Bases: `ask_sdk_runtime.dispatch.AbstractRequestDispatcher`

Generic implementation of `AbstractRequestDispatcher`.

The runtime configuration contains the components required for the dispatcher, which is passed during initialization.

When the dispatch method is invoked, using a list of `ask_sdk_runtime.dispatch_components.request_components.RequestMapper`, the Dispatcher finds a handler for the request and delegates the invocation to the supported `ask_sdk_runtime.dispatch_components.request_components.HandlerAdapter`. If the handler raises any exception, it is delegated to `ask_sdk_runtime.dispatch_components.exception_components.ExceptionMapper` to handle or raise it to the upper stack.

dispatch (*handler_input*)

Dispatches an incoming request to the appropriate request handler and returns the output.

Before running the request on the appropriate request handler, dispatcher runs any predefined global request interceptors. On successful response returned from request handler, dispatcher runs predefined global response interceptors, before returning the response.

Parameters **handler_input** (*Input*) – generic input to the dispatcher

Returns generic output handled by the handler, optionally containing a response

Return type Union[None, Output]

Raises `ask_sdk_runtime.exceptions.DispatchException`

class `ask_sdk_runtime.dispatch_components.request_components.GenericRequestHandlerChain` (*req*

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Bases: `ask_sdk_runtime.dispatch_components.request_components.AbstractRequestHandlerChain`

Generic implementation of `AbstractRequestHandlerChain`.

Generic Request Handler Chain accepts request handler of any type.

Parameters

- **request_handler** (`ask_sdk_runtime.dispatch_components.request_components.AbstractRequestHandler`) – Registered Request Handler instance of generic type.
- **request_interceptors** (`list(ask_sdk_runtime.dispatch_components.request_components.AbstractRequestInterceptor)`) – List of registered Request Interceptors.
- **response_interceptors** (`list(ask_sdk_runtime.dispatch_components.request_components.AbstractResponseInterceptor)`) – List of registered Response Interceptors.

`request_handler`

Returns Registered Request Handler instance.

Return type object

`request_interceptors`

Returns List of registered Request Interceptors.

Return type `list(ask_sdk_runtime.dispatch_components.request_components.AbstractRequestInterceptor)`

`response_interceptors`

Returns List of registered Response Interceptors.

Return type `list(ask_sdk_runtime.dispatch_components.request_components.AbstractResponseInterceptor)`

`add_request_interceptor(interceptor)`

Add interceptor to Request Interceptors list.

Parameters **interceptor** (`ask_sdk_runtime.dispatch_components.request_components.AbstractRequestInterceptor`) – Request Interceptor instance.

`add_response_interceptor(interceptor)`

Add interceptor to Response Interceptors list.

Parameters **interceptor** (`ask_sdk_runtime.dispatch_components.request_components.AbstractResponseInterceptor`) – Response Interceptor instance.

class `ask_sdk_runtime.dispatch_components.request_components.GenericRequestMapper` (*request_han*

Bases: `ask_sdk_runtime.dispatch_components.request_components.AbstractRequestMapper`

Implementation of *AbstractRequestMapper* that registers *RequestHandlerChain*.

The class accepts request handler chains of type *GenericRequestHandlerChain* only. The *get_request_handler_chain* method returns the *GenericRequestHandlerChain* instance that can handle the request in the handler input.

Parameters *request_handler_chains* (*list* (*GenericRequestHandlerChain*)) – List of *GenericRequestHandlerChain* instances.

request_handler_chains

Returns List of *GenericRequestHandlerChain* instances.

Return type *list*(*GenericRequestHandlerChain*)

add_request_handler_chain (*request_handler_chain*)

Checks the type before adding it to the *request_handler_chains* instance variable.

Parameters *request_handler_chain* (*RequestHandlerChain*) – Request Handler Chain instance.

Raises *ask_sdk_runtime.exceptions.DispatchException* if a null input is provided or if the input is of invalid type

get_request_handler_chain (*handler_input*)

Get the request handler chain that can handle the dispatch input.

Parameters *handler_input* (*Input*) – Generic input passed to the dispatcher.

Returns Handler Chain that can handle the input.

Return type Union[None, *GenericRequestHandlerChain*]

class *ask_sdk_runtime.dispatch_components.request_components.GenericHandlerAdapter*

Bases: *ask_sdk_runtime.dispatch_components.request_components.AbstractHandlerAdapter*

GenericHandler Adapter for handlers of type *ask_sdk_runtime.dispatch_components.request_components.AbstractRequestHandler*.

supports (*handler*)

Returns true if handler is *ask_sdk_runtime.dispatch_components.request_components.AbstractRequestHandler* instance.

Parameters *handler* (*ask_sdk_runtime.dispatch_components.request_components.AbstractRequestHandler*) – Request Handler instance

Returns Boolean denoting whether the adapter supports the handler.

Return type bool

execute (*handler_input*, *handler*)

Executes the handler with the provided handler input.

Parameters

- **handler_input** (*Input*) – Generic input passed to the dispatcher.
- **handler** (*object*) – Request Handler instance.

Returns Result executed by passing *handler_input* to *handler*.

Return type Union[None, Output]

class `ask_sdk_runtime.dispatch_components.exception_components.GenericExceptionMapper` (*exception_components.AbstractExceptionMapper*)

Bases: `ask_sdk_runtime.dispatch_components.exception_components.AbstractExceptionMapper`

Generic Implementation of exception mapper, to register `AbstractExceptionHandler` instances.

The class accepts exception handlers of type `AbstractExceptionHandler` only. The `get_handler` method returns the `AbstractExceptionHandler` instance that can handle the dispatch input and the exception raised from the dispatch method.

Parameters `exception_handlers` (`list(ask_sdk_runtime.dispatch_components.exception_components.AbstractExceptionHandler)`) – List of `ask_sdk_runtime.dispatch_components.exception_components.AbstractExceptionHandler` instances.

exception_handlers

Returns List of `ask_sdk_runtime.dispatch_components.exception_components.AbstractExceptionHandler` instances.

Return type `list(ask_sdk_runtime.dispatch_components.exception_components.AbstractExceptionHandler)`

add_exception_handler (`exception_handler`)

Checks the type before adding it to the `exception_handlers` instance variable.

Parameters `exception_handler` (`ask_sdk_runtime.dispatch_components.exception_components.AbstractExceptionHandler`) – Exception Handler instance.

Raises `ask_sdk_runtime.exceptions.DispatchException` if a null input is provided or if the input is of invalid type

get_handler (`handler_input`, `exception`)

Get the exception handler that can handle the input and exception.

Parameters

- **handler_input** (`Input`) – Generic input passed to the dispatcher.
- **exception** (`Exception`) – Exception thrown by `ask_sdk_runtime.dispatch.GenericRequestDispatcher` dispatch method.

Returns Exception Handler that can handle the input or None.

Return type `Union[None, ask_sdk_runtime.dispatch_components.exception_components.AbstractExceptionHandler]`

1.2 Skill Components

class `ask_sdk_runtime.skill.RuntimeConfiguration` (`request_mappers`, `handler_adapters`, `request_interceptors=None`, `response_interceptors=None`, `exception_mapper=None`, `loaders=None`, `renderer=None`)

Bases: `object`

Configuration Object that represents standard components needed to build the dispatcher in the `AbstractSkill`.

Parameters

- **request_mappers** (`list(GenericRequestMapper)`) – List of request mapper instances.

- **handler_adapters** (*list* (`GenericHandlerAdapter`)) – List of handler adapter instances.
- **request_interceptors** (*list* (`AbstractRequestInterceptor`)) – List of request interceptor instances.
- **response_interceptors** (*list* (`AbstractResponseInterceptor`)) – List of response interceptor instances.
- **exception_mapper** (`GenericExceptionMapper`) – Exception mapper instance.

class `ask_sdk_runtime.skill.RuntimeConfigurationBuilder`

Bases: `object`

Builder class for creating a runtime configuration object, from base dispatch components.

add_request_handler (*request_handler*)

Register input to the request handlers list.

Parameters **request_handler** (`AbstractRequestHandler`) – Request Handler instance to be registered.

Returns `None`

add_request_handlers (*request_handlers*)

Register input to the request handlers list.

Parameters **request_handlers** (*list* (`AbstractRequestHandler`)) – List of Request Handler instances to be registered.

Returns `None`

add_exception_handler (*exception_handler*)

Register input to the exception handlers list.

Parameters **exception_handler** (`AbstractExceptionHandler`) – Exception Handler instance to be registered.

Returns `None`

add_global_request_interceptor (*request_interceptor*)

Register input to the global request interceptors list.

Parameters **request_interceptor** (`AbstractRequestInterceptor`) – Request Interceptor instance to be registered.

Returns `None`

add_global_response_interceptor (*response_interceptor*)

Register input to the global response interceptors list.

Parameters **response_interceptor** (`AbstractResponseInterceptor`) – Response Interceptor instance to be registered.

Returns `None`

add_loader (*loader*)

Register input to the loaders list.

Parameters **loader** (`ask_sdk_runtime.view_resolvers.AbstractTemplateLoader`) – Loader to load the template

add_loaders (*loaders*)

Register input to the loaders list.

Parameters loaders (`ask_sdk_runtime.view_resolvers.AbstractTemplateLoader`) – List of loaders

add_renderer (*renderer*)
Register input to the renderer.

Parameters renderer (`ask_sdk_runtime.view_resolvers.AbstractTemplateRenderer`) – Renderer to render the template

get_runtime_configuration ()
Build the runtime configuration object from the registered components.

Returns Runtime Configuration Object

Return type *RuntimeConfiguration*

class `ask_sdk_runtime.skill.AbstractSkill`
Bases: `typing.Generic`

Abstract class that acts as entry level container for skill invocation.

Domain SDKs should implement the *supports* and *invoke* methods.

supports (*event, context*)
Check if the skill supports the corresponding input.

Parameters

- **event** (*SkillInput*) – input instance containing request information.
- **context** (*Any*) – Context passed during invocation

Returns boolean if this type of request can be handled by this skill.

Return type `bool`

invoke (*event, context*)
Invokes the dispatcher, to handle the skill input and return a skill output.

Parameters

- **event** (*SkillInput*) – input instance containing request information.
- **context** (*Any*) – Context passed during invocation

Returns output generated by handling the request.

Return type `SkillOutput`

class `ask_sdk_runtime.skill_builder.AbstractSkillBuilder`
Bases: `object`

Abstract Skill Builder with helper functions for building `ask_sdk_runtime.skill.AbstractSkill` object.

Domain SDKs has to implement the *create* method that returns an instance of the skill implementation for the domain type.

add_request_handler (*request_handler*)
Register input to the request handlers list.

Parameters request_handler (`ask_sdk_runtime.dispatch_components.request_components.AbstractRequestHandler`) – Request Handler instance to be registered.

Returns `None`

add_exception_handler (*exception_handler*)

Register input to the exception handlers list.

Parameters **exception_handler** (*ask_sdk_runtime.dispatch_components.request_components.AbstractExceptionHandler*) – Exception Handler instance to be registered.

Returns None

add_global_request_interceptor (*request_interceptor*)

Register input to the global request interceptors list.

Parameters **request_interceptor** (*ask_sdk_runtime.dispatch_components.request_components.AbstractRequestInterceptor*) – Request Interceptor instance to be registered.

Returns None

add_global_response_interceptor (*response_interceptor*)

Register input to the global response interceptors list.

Parameters **response_interceptor** (*ask_sdk_runtime.dispatch_components.request_components.AbstractResponseInterceptor*) – Response Interceptor instance to be registered.

Returns None

add_loaders (*loaders*)

Register input to the loaders list.

Parameters **loaders** (*ask_sdk_runtime.view_resolvers.AbstractTemplateLoader*) – List of loaders

add_loader (*loader*)

Register input to loaders list.

Parameters **loader** (*ask_sdk_runtime.view_resolvers.AbstractTemplateLoader*) – Loader to load template from a specific data source

add_renderer (*renderer*)

Register renderer to generate template responses.

Parameters **renderer** (*ask_sdk_runtime.view_resolvers.AbstractTemplateRenderer*) – Renderer to render the template

request_handler (*can_handle_func*)

Decorator that can be used to add request handlers easily to the builder.

The *can_handle_func* has to be a Callable instance, which takes a single parameter and no varargs or kwargs. This is because of the RequestHandler class signature restrictions. The returned wrapper function can be applied as a decorator on any function that returns a response object by the skill. The function should follow the signature of the handle function in *ask_sdk_runtime.dispatch_components.request_components.AbstractRequestHandler* class.

Parameters **can_handle_func** (*Callable[[Input], bool]*) – The function that validates if the request can be handled.

Returns Wrapper function that can be decorated on a handle function.

exception_handler (*can_handle_func*)

Decorator that can be used to add exception handlers easily to the builder.

The *can_handle_func* has to be a Callable instance, which takes two parameters and no varargs or kwargs. This is because of the ExceptionHandler class signature restrictions. The returned wrapper

function can be applied as a decorator on any function that processes the exception raised during dispatcher and returns a response object by the skill. The function should follow the signature of the handle function in `ask_sdk_runtime.dispatch_components.exception_components.AbstractExceptionHandler` class.

Parameters `can_handle_func` (`Callable[[Input, Exception], bool]`) – The function that validates if the exception can be handled.

Returns Wrapper function that can be decorated on a handle function.

global_request_interceptor ()

Decorator that can be used to add global request interceptors easily to the builder.

The returned wrapper function can be applied as a decorator on any function that processes the input. The function should follow the signature of the process function in `ask_sdk_runtime.dispatch_components.request_components.AbstractRequestInterceptor` class.

Returns Wrapper function that can be decorated on a interceptor process function.

global_response_interceptor ()

Decorator that can be used to add global response interceptors easily to the builder.

The returned wrapper function can be applied as a decorator on any function that processes the input and the response generated by the request handler. The function should follow the signature of the process function in `ask_sdk_runtime.dispatch_components.request_components.AbstractResponseInterceptor` class.

Returns Wrapper function that can be decorated on a interceptor process function.

create ()

Create a skill object using the registered components.

Returns a skill object that can be used for invocation.

Return type `AbstractSkill`

1.3 SDK Exceptions

exception `ask_sdk_runtime.exceptions.AskSdkException`

Bases: `Exception`

Base class for exceptions raised by the SDK.

exception `ask_sdk_runtime.exceptions.DispatchException`

Bases: `ask_sdk_runtime.exceptions.AskSdkException`

Class for exceptions raised during dispatch logic.

exception `ask_sdk_runtime.exceptions.SerializationException`

Bases: `ask_sdk_runtime.exceptions.AskSdkException`

Class for exceptions raised during serialization/deserialization.

exception `ask_sdk_runtime.exceptions.SkillBuilderException`

Bases: `ask_sdk_runtime.exceptions.AskSdkException`

Base exception class for Skill Builder exceptions.

exception `ask_sdk_runtime.exceptions.RuntimeConfigException`

Bases: `ask_sdk_runtime.exceptions.AskSdkException`

Base exception class for Runtime Configuration Builder exceptions.

2.1 Handler Input

```
class ask_sdk_core.handler_input.HandlerInput (request_envelope, at-  
 tributes_manager=None, context=None,  
 service_client_factory=None, tem-  
 plate_factory=None)
```

Bases: `object`

Input to Request Handler, Exception Handler and Interceptors.

Handler Input instantiations are passed to the registered instances of *AbstractRequestHandler* and *AbstractExceptionHandler*, during skill invocation. The class provides a *AttributesManager* and a *ResponseFactory* instance, apart from *RequestEnvelope*, *Context* and *ServiceClientFactory* instances, to utilize during the lifecycle of skill.

Parameters

- **request_envelope** (`ask_sdk_model.request_envelope.RequestEnvelope`) – Request Envelope passed from Alexa Service
- **attributes_manager** (`ask_sdk_core.attributes_manager.AttributesManager`) – Attribute Manager instance for managing attributes across skill lifecycle
- **context** (*object*) – Context object passed from Lambda service
- **service_client_factory** (`ask_sdk_model.services.service_client_factory.ServiceClientFactory`) – Service Client Factory instance for calling Alexa services
- **template_factory** (`ask_sdk_core.view_resolver.TemplateFactory`) – Template Factory to chain loaders and renderer

service_client_factory

Service Client Factory instance for calling Alexa services.

To use the Alexa services, one need to configure the API Client in the skill builder object, before creating the skill.

generate_template_response (*template_name*, *data_map*, ***kwargs*)

Generate response using skill response template and injecting data.

Parameters

- **template_name** (*str*) – name of response template
- **data_map** (*Dict[str, object]*) – map contains injecting data
- **kwargs** – Additional keyword arguments for loader and renderer.

Returns Skill Response output

Return type *ask_sdk_model.response.Response*

2.2 Request Dispatch Components

2.2.1 Abstract Classes

class `ask_sdk_core.dispatch_components.request_components.AbstractRequestHandler`

Bases: `ask_sdk_runtime.dispatch_components.request_components.AbstractRequestHandler`

Request Handlers are responsible for processing Request inside the Handler Input and generating Response.

Custom request handlers needs to implement `can_handle` and `handle` methods. `can_handle` returns True if the handler can handle the current request. `handle` processes the Request and may return a Response.

can_handle (*handler_input*)

Returns true if Request Handler can handle the Request inside Handler Input.

Parameters **handler_input** (`HandlerInput`) – Handler Input instance with Request Envelope containing Request.

Returns Boolean value that tells the dispatcher if the current request can be handled by this handler.

Return type `bool`

handle (*handler_input*)

Handles the Request inside handler input and provides a Response for dispatcher to return.

Parameters **handler_input** (`HandlerInput`) – Handler Input instance with Request Envelope containing Request.

Returns Response for the dispatcher to return or None

Return type `Union[Response, None]`

class `ask_sdk_core.dispatch_components.request_components.AbstractRequestInterceptor`

Bases: `ask_sdk_runtime.dispatch_components.request_components.AbstractRequestInterceptor`

Interceptor that runs before the handler is called.

The `process` method has to be implemented, to run custom logic on the input, before it is handled by the Handler.

process (*handler_input*)

Process the input before the Handler is run.

Parameters **handler_input** (`HandlerInput`) – Handler Input instance.

Return type `None`

class `ask_sdk_core.dispatch_components.request_components.AbstractResponseInterceptor`

Bases: `ask_sdk_runtime.dispatch_components.request_components.AbstractResponseInterceptor`

Interceptor that runs after the handler is called.

The `process` method has to be implemented, to run custom logic on the input and the response generated after the handler is executed on the input.

process (*handler_input, response*)

Process the input and the response after the Handler is run.

Parameters

- **handler_input** (`HandlerInput`) – Handler Input instance.
- **response** (`Union[None, ask_sdk_model.response.Response]`) – Execution result of the Handler on handler input.

Return type `None`

class `ask_sdk_core.dispatch_components.exception_components.AbstractExceptionHandler`

Bases: `ask_sdk_runtime.dispatch_components.exception_components.AbstractExceptionHandler`

Handles exception types and optionally produce a response.

The abstract class is similar to Request Handler, with methods `can_handle` and `handle`. The `can_handle` method checks if the handler can support the input and the exception. The `handle` method processes the input and exception, to optionally produce a response.

can_handle (*handler_input, exception*)

Checks if the handler can support the exception raised during dispatch.

Parameters

- **handler_input** (`HandlerInput`) – Handler Input instance.
- **exception** (`Exception`) – Exception raised during dispatch.

Returns Boolean whether handler can handle exception or not.

Return type `bool`

handle (*handler_input, exception*)

Process the handler input and exception.

Parameters

- **handler_input** (`HandlerInput`) – Handler Input instance.
- **exception** (`Exception`) – Exception raised during dispatch.

Returns Optional response object to serve as dispatch return.

Return type `Union[None, Response]`

2.3 Response Builder Components

`ask_sdk_core.response_helper.PLAIN_TEXT_TYPE = 'PlainText'`
str: Helper variable for plain text type.

`ask_sdk_core.response_helper.RICH_TEXT_TYPE = 'RichText'`
str: Helper variable for rich text type.

class `ask_sdk_core.response_helper.ResponseFactory`
Bases: `object`

`ResponseFactory` is class which provides helper functions to help building a response.

speak (*speech*, *play_behavior=None*)
Say the provided speech to the user.

Parameters

- **speech** (*str*) – the output speech sent back to the user.
- **play_behavior** (`ask_sdk_model.ui.play_behavior.PlayBehavior`) – attribute to control alexa’s speech interruption

Returns response factory with partial response being built and access from `self.response`.

Return type *ResponseFactory*

ask (*reprompt*, *play_behavior=None*)
Provide reprompt speech to the user, if no response for 8 seconds.

The `should_end_session` value will be set to `false` except when the video app launch directive is present in directives.

Parameters

- **reprompt** (*str*) – the output speech to reprompt.
- **play_behavior** (`ask_sdk_model.ui.play_behavior.PlayBehavior`) – attribute to control alexa’s speech interruption

Returns response factory with partial response being built and access from `self.response`.

Return type *ResponseFactory*

set_card (*card*)
Renders a card within the response.

For more information about card object in response, click here: <https://developer.amazon.com/docs/custom-skills/request-and-response-json-reference.html#card-object>.

Parameters **card** (`ask_sdk_model.ui.card.Card`) – card object in response sent back to user.

Returns response factory with partial response being built and access from `self.response`.

Return type *ResponseFactory*

add_directive (*directive*)
Adds directive to response.

Parameters **directive** (`ask_sdk_model.directive.Directive`) – the directive sent back to Alexa device.

Returns response factory with partial response being built and access from `self.response`.

Return type *ResponseFactory*

set_should_end_session (*should_end_session*)

Sets shouldEndSession value to null/false/true.

Parameters **should_end_session** (*bool*) – value to show if the session should be ended or not.

Returns response factory with partial response being built and access from self.response.

Return type *ResponseFactory*

set_can_fulfill_intent (*can_fulfill_intent*)

Sets CanFulfill intent to the response.

For more information on CanFulfillIntent, check the name-free interaction doc here: <https://developer.amazon.com/docs/custom-skills/understand-name-free-interaction-for-custom-skills.html>

Parameters **can_fulfill_intent** (*CanFulfillIntent*) – CanFulfill Intent sent back in response.

Returns response factory with partial response being built and access from self.response.

Return type *ResponseFactory*

`ask_sdk_core.response_helper.get_plain_text_content` (*primary_text=None, secondary_text=None, tertiary_text=None*)

Responsible for building plain text content object using ask-sdk-model in Alexa skills kit display interface. <https://developer.amazon.com/docs/custom-skills/display-interface-reference.html#textcontent-object-specifications>.

Parameters

- **primary_text** (*optional str*) – Text for primary_text field
- **secondary_text** (*optional str*) – Text for secondary_text field
- **tertiary_text** (*optional str*) – Text for tertiary_text field

Returns Text Content instance with primary, secondary and tertiary text set as Plain Text objects.

Return type *TextContent*

Raises ValueError

`ask_sdk_core.response_helper.get_rich_text_content` (*primary_text=None, secondary_text=None, tertiary_text=None*)

Responsible for building plain text content object using ask-sdk-model in Alexa skills kit display interface. <https://developer.amazon.com/docs/custom-skills/display-interface-reference.html#textcontent-object-specifications>.

Parameters

- **primary_text** (*optional str*) – Text for primary_text field
- **secondary_text** (*optional str*) – Text for secondary_text field
- **tertiary_text** (*optional str*) – Text for tertiary_text field

Returns Text Content instance with primary, secondary and tertiary text set as Rich Text objects.

Return type *TextContent*

Raises ValueError

```
ask_sdk_core.response_helper.get_text_content(primary_text=None, primary_text_type='PlainText',
                                             secondary_text=None, secondary_text_type='PlainText',
                                             tertiary_text=None, tertiary_text_type='PlainText')
```

Responsible for building text content object using ask-sdk-model in Alexa skills kit display interface. <https://developer.amazon.com/docs/custom-skills/display-interface-reference.html#textcontent-object-specifications>.

Parameters

- **primary_text** (*optional* *str*) – Text for primary_text field
- **primary_text_type** (*optional* *str*) – Type of the primary text field. Allowed values are *PlainText* and *RichText*. Defaulted to *PlainText*.
- **secondary_text** (*optional* *str*) – Text for secondary_text field
- **secondary_text_type** – Type of the secondary text field. Allowed values are *PlainText* and *RichText*. Defaulted to *PlainText*.
- **tertiary_text** (*optional* *str*) – Text for tertiary_text field
- **tertiary_text_type** – Type of the tertiary text field. Allowed values are *PlainText* and *RichText*. Defaulted to *PlainText*.

Returns Text Content instance with primary, secondary and tertiary text set.

Return type *TextContent*

Raises ValueError

2.4 Skill Components

```
class ask_sdk_core.skill.SkillConfiguration(request_mappers, handler_adapters,
                                           request_interceptors=None, response_interceptors=None,
                                           exception_mapper=None, persistence_adapter=None, api_client=None,
                                           custom_user_agent=None, skill_id=None)
```

Bases: *ask_sdk_runtime.skill.RuntimeConfiguration*

Configuration Object that represents standard components needed to build Skill.

Parameters

- **request_mappers** (*list* (*GenericRequestMapper*)) – List of request mapper instances.
- **handler_adapters** (*list* (*GenericHandlerAdapter*)) – List of handler adapter instances.
- **request_interceptors** (*list* (*ask_sdk_core.dispatch_components.request_components.AbstractRequestInterceptor*)) – List of request interceptor instances.
- **response_interceptors** (*list* (*ask_sdk_core.dispatch_components.request_components.AbstractResponseInterceptor*)) – List of response interceptor instances.
- **exception_mapper** (*GenericExceptionMapper*) – Exception mapper instance.

- **persistence_adapter** (`AbstractPersistenceAdapter`) – Persistence adapter instance.
- **api_client** (`ask_sdk_model.services.api_client.ApiClient`) – Api Client instance.
- **custom_user_agent** (`str`) – Custom User Agent string
- **skill_id** (`str`) – ID of the skill.

class `ask_sdk_core.skill.CustomSkill` (*skill_configuration*)

Bases: `ask_sdk_runtime.skill.AbstractSkill`

Top level container for Request Dispatcher, Persistence Adapter and Api Client.

Parameters `skill_configuration` (`SkillConfiguration`) – Configuration object that holds information about different components needed to build the skill object.

supports (*request_envelope, context*)

Check if request envelope is of the expected skill format.

Parameters

- **request_envelope** (`Dict[str, Any]`) – input instance containing request information.
- **context** (`Any`) – Context passed during invocation

Returns boolean if this type of request can be handled by this skill.

Return type `bool`

invoke (*request_envelope, context*)

Invokes the dispatcher, to handle the request envelope and return a response envelope.

Parameters

- **request_envelope** (`RequestEnvelope`) – Request Envelope instance containing request information
- **context** (`Any`) – Context passed during invocation

Returns Response Envelope generated by handling the request

Return type `ResponseEnvelope`

class `ask_sdk_core.skill_builder.SkillBuilder`

Bases: `ask_sdk_runtime.skill_builder.AbstractSkillBuilder`

Skill Builder with helper functions for building `ask_sdk_core.skill.Skill` object.

skill_configuration

Create the skill configuration object using the registered components.

create ()

Create a skill object using the registered components.

Returns a skill object that can be used for invocation.

Return type `Skill`

lambda_handler ()

Create a handler function that can be used as handler in AWS Lambda console.

The lambda handler provides a handler function, that acts as an entry point to the AWS Lambda console. Users can set the `lambda_handler` output to a variable and set the variable as AWS Lambda Handler on the console.

As mentioned in the [AWS Lambda Handler docs](#), the handler function receives the event attribute as a `str` representing the input request envelope JSON from Alexa service, which is deserialized to `ask_sdk_model.request_envelope.RequestEnvelope`, before invoking the skill. The output from the handler function would be the serialized `ask_sdk_model.response_envelope.ResponseEnvelope` class from the appropriate skill handler.

Returns Handler function to tag on AWS Lambda console.

add_custom_user_agent (*user_agent*)

Adds the user agent to the skill instance.

This method adds the passed in `user_agent` to the skill, which is reflected in the skill's response envelope.

Parameters `user_agent` (*str*) – Custom User Agent string provided by the developer.

Return type `None`

add_renderer (*renderer*)

Register renderer to generate template responses.

Parameters `renderer` (`ask_sdk_runtime.view_resolvers.AbstractTemplateRenderer`) – Renderer to render the template

add_exception_handler (*exception_handler*)

Register input to the exception handlers list.

Parameters `exception_handler` (`ask_sdk_runtime.dispatch_components.request_components.AbstractExceptionHandler`) – Exception Handler instance to be registered.

Returns `None`

add_global_request_interceptor (*request_interceptor*)

Register input to the global request interceptors list.

Parameters `request_interceptor` (`ask_sdk_runtime.dispatch_components.request_components.AbstractRequestInterceptor`) – Request Interceptor instance to be registered.

Returns `None`

add_global_response_interceptor (*response_interceptor*)

Register input to the global response interceptors list.

Parameters `response_interceptor` (`ask_sdk_runtime.dispatch_components.request_components.AbstractResponseInterceptor`) – Response Interceptor instance to be registered.

Returns `None`

add_loader (*loader*)

Register input to loaders list.

Parameters `loader` (`ask_sdk_runtime.view_resolvers.AbstractTemplateLoader`) – Loader to load template from a specific data source

add_loaders (*loaders*)

Register input to the loaders list.

Parameters `loaders` (`ask_sdk_runtime.view_resolvers.AbstractTemplateLoader`) – List of loaders

add_request_handler (*request_handler*)

Register input to the request handlers list.

Parameters `request_handler` (`ask_sdk_runtime.dispatch_components.request_components.AbstractRequestHandler`) – Request Handler instance to be registered.

Returns None

exception_handler (`can_handle_func`)

Decorator that can be used to add exception handlers easily to the builder.

The `can_handle_func` has to be a Callable instance, which takes two parameters and no varargs or kwargs. This is because of the ExceptionHandler class signature restrictions. The returned wrapper function can be applied as a decorator on any function that processes the exception raised during dispatcher and returns a response object by the skill. The function should follow the signature of the handle function in `ask_sdk_runtime.dispatch_components.exception_components.AbstractExceptionHandler` class.

Parameters `can_handle_func` (`Callable[[Input, Exception], bool]`) – The function that validates if the exception can be handled.

Returns Wrapper function that can be decorated on a handle function.

global_request_interceptor ()

Decorator that can be used to add global request interceptors easily to the builder.

The returned wrapper function can be applied as a decorator on any function that processes the input. The function should follow the signature of the process function in `ask_sdk_runtime.dispatch_components.request_components.AbstractRequestInterceptor` class.

Returns Wrapper function that can be decorated on a interceptor process function.

global_response_interceptor ()

Decorator that can be used to add global response interceptors easily to the builder.

The returned wrapper function can be applied as a decorator on any function that processes the input and the response generated by the request handler. The function should follow the signature of the process function in `ask_sdk_runtime.dispatch_components.request_components.AbstractResponseInterceptor` class.

Returns Wrapper function that can be decorated on a interceptor process function.

request_handler (`can_handle_func`)

Decorator that can be used to add request handlers easily to the builder.

The `can_handle_func` has to be a Callable instance, which takes a single parameter and no varargs or kwargs. This is because of the RequestHandler class signature restrictions. The returned wrapper function can be applied as a decorator on any function that returns a response object by the skill. The function should follow the signature of the handle function in `ask_sdk_runtime.dispatch_components.request_components.AbstractRequestHandler` class.

Parameters `can_handle_func` (`Callable[[Input], bool]`) – The function that validates if the request can be handled.

Returns Wrapper function that can be decorated on a handle function.

class `ask_sdk_core.skill_builder.CustomSkillBuilder` (`persistence_adapter=None`,
`api_client=None`)

Bases: `ask_sdk_core.skill_builder.SkillBuilder`

Skill Builder with api client and persistence adapter setter functions.

skill_configuration

Create the skill configuration object using the registered components.

add_custom_user_agent (*user_agent*)

Adds the user agent to the skill instance.

This method adds the passed in *user_agent* to the skill, which is reflected in the skill's response envelope.

Parameters **user_agent** (*str*) – Custom User Agent string provided by the developer.

Return type `None`

add_exception_handler (*exception_handler*)

Register input to the exception handlers list.

Parameters **exception_handler** (`ask_sdk_runtime.dispatch_components.request_components.AbstractExceptionHandler`) – Exception Handler instance to be registered.

Returns `None`

add_global_request_interceptor (*request_interceptor*)

Register input to the global request interceptors list.

Parameters **request_interceptor** (`ask_sdk_runtime.dispatch_components.request_components.AbstractRequestInterceptor`) – Request Interceptor instance to be registered.

Returns `None`

add_global_response_interceptor (*response_interceptor*)

Register input to the global response interceptors list.

Parameters **response_interceptor** (`ask_sdk_runtime.dispatch_components.request_components.AbstractResponseInterceptor`) – Response Interceptor instance to be registered.

Returns `None`

add_loader (*loader*)

Register input to loaders list.

Parameters **loader** (`ask_sdk_runtime.view_resolvers.AbstractTemplateLoader`) – Loader to load template from a specific data source

add_loaders (*loaders*)

Register input to the loaders list.

Parameters **loaders** (`ask_sdk_runtime.view_resolvers.AbstractTemplateLoader`) – List of loaders

add_renderer (*renderer*)

Register renderer to generate template responses.

Parameters **renderer** (`ask_sdk_runtime.view_resolvers.AbstractTemplateRenderer`) – Renderer to render the template

add_request_handler (*request_handler*)

Register input to the request handlers list.

Parameters **request_handler** (`ask_sdk_runtime.dispatch_components.request_components.AbstractRequestHandler`) – Request Handler instance to be registered.

Returns `None`

create ()

Create a skill object using the registered components.

Returns a skill object that can be used for invocation.

Return type Skill

exception_handler (*can_handle_func*)

Decorator that can be used to add exception handlers easily to the builder.

The `can_handle_func` has to be a Callable instance, which takes two parameters and no varargs or kwargs. This is because of the `ExceptionHandler` class signature restrictions. The returned wrapper function can be applied as a decorator on any function that processes the exception raised during dispatcher and returns a response object by the skill. The function should follow the signature of the handle function in `ask_sdk_runtime.dispatch_components.exception_components.AbstractExceptionHandler` class.

Parameters `can_handle_func` (`Callable[[Input, Exception], bool]`) – The function that validates if the exception can be handled.

Returns Wrapper function that can be decorated on a handle function.

global_request_interceptor ()

Decorator that can be used to add global request interceptors easily to the builder.

The returned wrapper function can be applied as a decorator on any function that processes the input. The function should follow the signature of the process function in `ask_sdk_runtime.dispatch_components.request_components.AbstractRequestInterceptor` class.

Returns Wrapper function that can be decorated on a interceptor process function.

global_response_interceptor ()

Decorator that can be used to add global response interceptors easily to the builder.

The returned wrapper function can be applied as a decorator on any function that processes the input and the response generated by the request handler. The function should follow the signature of the process function in `ask_sdk_runtime.dispatch_components.request_components.AbstractResponseInterceptor` class.

Returns Wrapper function that can be decorated on a interceptor process function.

lambda_handler ()

Create a handler function that can be used as handler in AWS Lambda console.

The lambda handler provides a handler function, that acts as an entry point to the AWS Lambda console. Users can set the `lambda_handler` output to a variable and set the variable as AWS Lambda Handler on the console.

As mentioned in the [AWS Lambda Handler docs](#), the handler function receives the event attribute as a `str` representing the input request envelope JSON from Alexa service, which is deserialized to `ask_sdk_model.request_envelope.RequestEnvelope`, before invoking the skill. The output from the handler function would be the serialized `ask_sdk_model.response_envelope.ResponseEnvelope` class from the appropriate skill handler.

Returns Handler function to tag on AWS Lambda console.

request_handler (*can_handle_func*)

Decorator that can be used to add request handlers easily to the builder.

The `can_handle_func` has to be a Callable instance, which takes a single parameter and no varargs or kwargs. This is because of the `RequestHandler` class signature restrictions. The returned wrapper function can be applied as a decorator on any function that returns a response object by the skill. The function should follow the signature of the handle function in `ask_sdk_runtime.dispatch_components.request_components.AbstractRequestHandler` class.

Parameters `can_handle_func` (*Callable*[[*Input*], *bool*]) – The function that validates if the request can be handled.

Returns Wrapper function that can be decorated on a handle function.

2.5 Skill Attribute Components

class `ask_sdk_core.attributes_manager.AttributesManager` (*request_envelope*, *persistence_adapter=None*)

Bases: `object`

AttributesManager is a class that handles three level attributes: request, session and persistence.

Parameters

- **request_envelope** (*RequestEnvelope*) – request envelope.
- **persistence_adapter** (*AbstractPersistenceAdapter*) – class used for storing and retrieving persistent attributes from persistence tier

`request_attributes`

Attributes stored at the Request level of the skill lifecycle.

Returns request attributes for the request life cycle

Return type `Dict[str, object]`

`session_attributes`

Attributes stored at the Session level of the skill lifecycle.

Returns session attributes extracted from request envelope

Return type `Dict[str, object]`

`persistent_attributes`

Attributes stored at the Persistence level of the skill lifecycle.

Returns `persistent_attributes` retrieved from persistence adapter

Return type `Dict[str, object]`

Raises `ask_sdk_core.exceptions.AttributesManagerException` if trying to get persistent attributes without persistence adapter

`save_persistent_attributes` ()

Save persistent attributes to the persistence layer if a persistence adapter is provided.

Return type `None`

Raises `ask_sdk_core.exceptions.AttributesManagerException` if trying to save persistence attributes without persistence adapter

`delete_persistent_attributes` ()

Deletes the persistent attributes from the persistence layer.

Return type `None`

Raises `:py:class: ask_sdk_core.exceptions.AttributesManagerException` if trying to delete persistence attributes without persistence adapter

2.5.1 Abstract Classes

class `ask_sdk_core.attributes_manager.AbstractPersistenceAdapter`

Bases: `object`

Abstract class for storing and retrieving persistent attributes from persistence tier given request envelope.

User needs to implement `get_attributes` method to get attributes from persistent tier and `save_attributes` method to save attributes to persistent tier.

get_attributes (*request_envelope*)

Get attributes from persistent tier.

Parameters `request_envelope` (`RequestEnvelope`) – Request Envelope from Alexa service

Returns A dictionary of attributes retrieved from persistent tier

Return type `Dict[str, object]`

save_attributes (*request_envelope*, *attributes*)

Save attributes to persistent tier.

Parameters

- **request_envelope** (`RequestEnvelope`) – request envelope.
- **attributes** (`Dict[str, object]`) – attributes to be saved to persistent tier

Return type `None`

delete_attributes (*request_envelope*)

Delete attributes from persistent tier.

Parameters `request_envelope` (`RequestEnvelope`) – request envelope.

Return type `None`

2.6 API Client

class `ask_sdk_core.api_client.DefaultApiClient`

Bases: `ask_sdk_model.services.api_client.ApiClient`

Default `ApiClient` implementation of `ask_sdk_model.services.api_client.ApiClient` using the `requests` library.

invoke (*request*)

Dispatches a request to an API endpoint described in the request.

Resolves the method from input request object, converts the list of header tuples to the required format (dict) for the `requests` lib call and invokes the method with corresponding parameters on `requests` library. The response from the call is wrapped under the `ApiClientResponse` object and the responsibility of translating a response code and response/ error lies with the caller.

Parameters `request` (`ApiClientRequest`) – Request to dispatch to the `ApiClient`

Returns Response from the client call

Return type `ApiClientResponse`

Raises `ask_sdk_core.exceptions.ApiClientException`

2.7 SDK Exceptions

exception `ask_sdk_core.exceptions.AttributesManagerException`

Bases: `ask_sdk_runtime.exceptions.AskSdkException`

Class for exceptions raised during handling attributes logic

exception `ask_sdk_core.exceptions.SerializationException`

Bases: `ask_sdk_runtime.exceptions.AskSdkException`

Class for exceptions raised during serialization/deserialization.

exception `ask_sdk_core.exceptions.PersistenceException`

Bases: `ask_sdk_runtime.exceptions.AskSdkException`

Exception class for Persistence Adapter processing.

exception `ask_sdk_core.exceptions.ApiClientException`

Bases: `ask_sdk_runtime.exceptions.AskSdkException`

Exception class for ApiClient Adapter processing.

exception `ask_sdk_core.exceptions.TemplateLoaderException`

Bases: `ask_sdk_runtime.exceptions.AskSdkException`

Exception class for Template Loaders

exception `ask_sdk_core.exceptions.TemplateRenderException`

Bases: `ask_sdk_runtime.exceptions.AskSdkException`

Exception class for Template Renderer

2.8 Default Serializer

class `ask_sdk_core.serialize.DefaultSerializer`

Bases: `ask_sdk_model.services.serializer.Serializer`

serialize (*obj*)

Builds a serialized object.

- If *obj* is None, return None.
- If *obj* is str, int, long, float, bool, return directly.
- If *obj* is datetime.datetime, datetime.date convert to string in iso8601 format.
- If *obj* is list, serialize each element in the list.
- If *obj* is dict, return the dict with serialized values.
- If *obj* is ask sdk model, return the dict with keys resolved from the union of model's `attribute_map` and `deserialized_types` and values serialized based on `deserialized_types`.
- If *obj* is a generic class instance, return the dict with keys from instance's `deserialized_types` and values serialized based on `deserialized_types`.

Parameters *obj* (*object*) – The data to serialize.

Returns The serialized form of data.

Return type Union[Dict[str, Any], List, Tuple, str, int, float, bytes, None]

deserialize (*payload*, *obj_type*)

Deserializes payload into an instance of provided *obj_type*.

The *obj_type* parameter can be a primitive type, a generic model object or a list / dict of model objects.

The list or dict object type has to be provided as a string format. For eg:

- 'list[a.b.C]' if the payload is a list of instances of class a.b.C.
- 'dict(str, a.b.C)' if the payload is a dict containing mappings of str : a.b.C class instance types.

The method looks for a `deserialized_types` dict in the model class, that mentions which payload values has to be deserialized. In case the payload key names are different than the model attribute names, the corresponding mapping can be provided in another special dict `attribute_map`. The model class should also have the `__init__` method with default values for arguments. Check `ask_sdk_model.request_envelope.RequestEnvelope` source code for an example implementation.

Parameters

- **payload** (*str*) – data to be deserialized.
- **obj_type** (*Union[object, str]*) – resolved class name for deserialized object

Returns deserialized object

Return type `object`

Raises `ask_sdk_core.exceptions.SerializationException`

2.9 General Utilities

`ask_sdk_core.utils.predicate.is_canfulfill_intent_name` (*name*)

A predicate function returning a boolean, when name matches the intent name in a CanFulfill Intent Request.

The function can be applied on a `ask_sdk_core.handler_input.HandlerInput`, to check if the input is of `ask_sdk_model.intent_request.CanFulfillIntentRequest` type and if the name of the request matches with the passed name.

Parameters **name** (*str*) – Name to be matched with the CanFulfill Intent Request Name

Returns Predicate function that can be used to check name of the request

Return type `Callable[[HandlerInput], bool]`

`ask_sdk_core.utils.predicate.is_intent_name` (*name*)

A predicate function returning a boolean, when name matches the name in Intent Request.

The function can be applied on a `ask_sdk_core.handler_input.HandlerInput`, to check if the input is of `ask_sdk_model.intent_request.IntentRequest` type and if the name of the request matches with the passed name.

Parameters **name** (*str*) – Name to be matched with the Intent Request Name

Returns Predicate function that can be used to check name of the request

Return type `Callable[[HandlerInput], bool]`

`ask_sdk_core.utils.predicate.is_request_type` (*request_type*)

A predicate function returning a boolean, when request type is the passed-in type.

The function can be applied on a `ask_sdk_core.handler_input.HandlerInput`, to check if the input request type is the passed in request type.

Parameters `request_type` (*str*) – request type to be matched with the input’s request

Returns Predicate function that can be used to check the type of the request

Return type Callable[[*HandlerInput*], bool]

```
class ask_sdk_core.utils.viewport.OrderedEnum
```

Bases: `enum.Enum`

An enumeration.

```
class ask_sdk_core.utils.viewport.Density
```

Bases: `ask_sdk_core.utils.viewport.OrderedEnum`

An enumeration.

```
XLOW = 0
```

```
LOW = 1
```

```
MEDIUM = 2
```

```
HIGH = 3
```

```
XHIGH = 4
```

```
XXHIGH = 5
```

```
class ask_sdk_core.utils.viewport.Orientation
```

Bases: `ask_sdk_core.utils.viewport.OrderedEnum`

An enumeration.

```
LANDSCAPE = 0
```

```
EQUAL = 1
```

```
PORTRAIT = 2
```

```
class ask_sdk_core.utils.viewport.Size
```

Bases: `ask_sdk_core.utils.viewport.OrderedEnum`

An enumeration.

```
XSMALL = 0
```

```
SMALL = 1
```

```
MEDIUM = 2
```

```
LARGE = 3
```

```
XLARGE = 4
```

```
class ask_sdk_core.utils.viewport.ViewportProfile
```

Bases: `enum.Enum`

An enumeration.

```
HUB_ROUND_SMALL = 'HUB_ROUND_SMALL'
```

```
HUB_LANDSCAPE_SMALL = 'HUB_LANDSCAPE_SMALL'
```

```
HUB_LANDSCAPE_MEDIUM = 'HUB_LANDSCAPE_MEDIUM'
```

```
HUB_LANDSCAPE_LARGE = 'HUB_LANDSCAPE_LARGE'
```

```
MOBILE_LANDSCAPE_SMALL = 'MOBILE_LANDSCAPE_SMALL'
```

```
MOBILE_PORTRAIT_SMALL = 'MOBILE_PORTRAIT_SMALL'
```

```

MOBILE_LANDSCAPE_MEDIUM = 'MOBILE_LANDSCAPE_MEDIUM'
MOBILE_PORTRAIT_MEDIUM = 'MOBILE_PORTRAIT_MEDIUM'
TV_LANDSCAPE_XLARGE = 'TV_LANDSCAPE_XLARGE'
TV_PORTRAIT_MEDIUM = 'TV_PORTRAIT_MEDIUM'
TV_LANDSCAPE_MEDIUM = 'TV_LANDSCAPE_MEDIUM'
UNKNOWN_VIEWPORT_PROFILE = 'UNKNOWN_VIEWPORT_PROFILE'

```

`ask_sdk_core.utils.viewport.get_orientation(width, height)`
Get viewport orientation from given width and height.

Returns viewport orientation enum

Return type *Orientation*

`ask_sdk_core.utils.viewport.get_size(size)`
Get viewport size from given size.

Returns viewport size enum

Return type *Size*

`ask_sdk_core.utils.viewport.get_dpi_group(dpi)`
Get viewport density group from given dpi.

Returns viewport density group enum

Return type *Density*

`ask_sdk_core.utils.viewport.get_viewport_profile(request_envelope)`
Utility method, to get viewport profile.

The viewport profile is calculated using the shape, current pixel width and height, along with the dpi.

If there is no *viewport* value in *request_envelope.context*, then an *ViewportProfile.UNKNOWN_VIEWPORT_PROFILE* is returned.

Parameters `request_envelope` (`ask_sdk_model.request_envelope.RequestEnvelope`) – The alexa request envelope object

Returns Calculated Viewport Profile enum

Return type *ViewportProfile*

`ask_sdk_core.utils.request_util.get_locale(handler_input)`
Return locale value from input request.

The method returns the *locale* value present in the request. More information about the locale can be found here : <https://developer.amazon.com/docs/custom-skills/request-and-response-json-reference.html#request-locale>

Parameters `handler_input` (`ask_sdk_core.handler_input.HandlerInput`) – The handler input instance that is generally passed in the sdk's request and exception components

Returns Locale value from the request

Return type *str*

`ask_sdk_core.utils.request_util.get_request_type(handler_input)`
Return the type of the input request.

The method retrieves the request `type` of the input request. More information about the different request types are mentioned here : <https://developer.amazon.com/docs/custom-skills/request-and-response-json-reference.html#request-body-parameters>

Parameters `handler_input` (`ask_sdk_core.handler_input.HandlerInput`) – The handler input instance that is generally passed in the sdk’s request and exception components

Returns Type value of the input request

Return type `str`

`ask_sdk_core.utils.request_util.get_intent_name(handler_input)`

Return the name of the intent request.

The method retrieves the intent name from the input request, only if the input request is an `ask_sdk_model.intent_request.IntentRequest`. If the input is not an `IntentRequest`, a `TypeError` is raised.

Parameters `handler_input` (`ask_sdk_core.handler_input.HandlerInput`) – The handler input instance that is generally passed in the sdk’s request and exception components

Returns Name of the intent request

Return type `str`

Raises `TypeError`

`ask_sdk_core.utils.request_util.get_account_linking_access_token(handler_input)`

Return the access token in the request.

The method retrieves the user’s `accessToken` from the input request. Once a user successfully enables a skill and links their Alexa account to the skill, the input request will have the user’s access token. A `None` value is returned if there is no access token in the input request. More information on this can be found here : <https://developer.amazon.com/docs/account-linking/add-account-linking-logic-custom-skill.html>

Parameters `handler_input` (`ask_sdk_core.handler_input.HandlerInput`) – The handler input instance that is generally passed in the sdk’s request and exception components

Returns User account linked access token if available. `None` if not available

Return type `Optional[str]`

`ask_sdk_core.utils.request_util.get_api_access_token(handler_input)`

Return the api access token in the request.

The method retrieves the `apiAccessToken` from the input request, which has the encapsulated information of permissions granted by the user. This token can be used to call Alexa-specific APIs. More information about this can be found here : <https://developer.amazon.com/docs/custom-skills/request-and-response-json-reference.html#system-object>

The SDK already includes this token in the API calls done through the `service_client_factory` in `ask_sdk_core.handler_input.HandlerInput`.

Parameters `handler_input` (`ask_sdk_core.handler_input.HandlerInput`) – The handler input instance that is generally passed in the sdk’s request and exception components

Returns Api access token from the input request, which encapsulates any permissions consented by the user

Return type `str`

`ask_sdk_core.utils.request_util.get_device_id(handler_input)`

Return the device id from the input request.

The method retrieves the *deviceId* property from the input request. This value uniquely identifies the device and is generally used as input for some Alexa-specific API calls. More information about this can be found here : <https://developer.amazon.com/docs/custom-skills/request-and-response-json-reference.html#system-object>

If there is no device information in the input request, then a `None` is returned.

Parameters `handler_input` (`ask_sdk_core.handler_input.HandlerInput`) – The handler input instance that is generally passed in the sdk’s request and exception components

Returns Unique device id of the device used to send the alexa request or `None` if device information is not present

Return type Optional[`str`]

`ask_sdk_core.utils.request_util.get_dialog_state(handler_input)`

Return the dialog state enum from the intent request.

The method retrieves the *dialogState* from the intent request, if the skill’s interaction model includes a dialog model. This can be used to determine the current status of user conversation and return the appropriate dialog directives if the conversation is not yet complete. More information on dialog management can be found here : <https://developer.amazon.com/docs/custom-skills/define-the-dialog-to-collect-and-confirm-required-information.html>

The method returns a `None` if there is no dialog model added or if the intent doesn’t have dialog management. The method raises a `TypeError` if the input is not an `IntentRequest`.

Parameters `handler_input` (`ask_sdk_core.handler_input.HandlerInput`) – The handler input instance that is generally passed in the sdk’s request and exception components.

Returns State of the dialog model from the intent request.

Return type Optional[`ask_sdk_model.dialog_state.DialogState`]

Raises `TypeError` if the input is not an `IntentRequest`

`ask_sdk_core.utils.request_util.get_slot(handler_input, slot_name)`

Return the slot information from intent request.

The method retrieves the slot information `ask_sdk_model.slot.Slot` from the input intent request for the given `slot_name`. More information on the slots can be found here : <https://developer.amazon.com/docs/custom-skills/request-types-reference.html#slot-object>

If there is no such slot, then a `None` is returned. If the input request is not an `ask_sdk_model.intent_request.IntentRequest`, a `TypeError` is raised.

Parameters

- **handler_input** (`ask_sdk_core.handler_input.HandlerInput`) – The handler input instance that is generally passed in the sdk’s request and exception components
- **slot_name** (`str`) – Name of the slot that needs to be retrieved

Returns Slot information for the provided slot name if it exists, or a `None` value

Return type Optional[`ask_sdk_model.slot.Slot`]

Raises `TypeError` if the input is not an `IntentRequest`

`ask_sdk_core.utils.request_util.get_slot_value(handler_input, slot_name)`

Return the slot value from intent request.

The method retrieves the slot value from the input intent request for the given `slot_name`. More information on the slots can be found here : <https://developer.amazon.com/docs/custom-skills/request-types-reference.html#slot-object>

If the input request is not an `ask_sdk_model.intent_request.IntentRequest`, a `TypeError` is raised.

Parameters

- **handler_input** (`ask_sdk_core.handler_input.HandlerInput`) – The handler input instance that is generally passed in the sdk’s request and exception components
- **slot_name** (`str`) – Name of the slot for which the value has to be retrieved

Returns Slot value for the provided slot if it exists

Return type `str`

Raises `TypeError` if the input is not an `IntentRequest`.

`ask_sdk_core.utils.request_util.get_supported_interfaces(handler_input)`

Retrieves the supported interfaces from input request.

The method returns an `ask_sdk_model.supported_interfaces.SupportedInterfaces` object instance listing each interface that the device supports. For example, if `supported_interfaces` includes `audio_player`, then you know that the device supports streaming audio using the `AudioPlayer` interface. More information on `supportedInterfaces` can be found here : <https://developer.amazon.com/docs/custom-skills/request-and-response-json-reference.html#system-object>

Parameters **handler_input** (`ask_sdk_core.handler_input.HandlerInput`) – The handler input instance that is generally passed in the sdk’s request and exception components

Returns Instance of `ask_sdk_model.supported_interfaces.SupportedInterfaces` mentioning which all interfaces the device supports

Return type `ask_sdk_model.supported_interfaces.SupportedInterfaces`

`ask_sdk_core.utils.request_util.is_new_session(handler_input)`

Return if the session is new for the input request.

The method retrieves the `new` value from the input request’s session, which indicates if it’s a new session or not. The `ask_sdk_model.session.Session` is only included on all standard requests except `AudioPlayer`, `VideoApp` and `PlaybackController` requests. More information can be found here : <https://developer.amazon.com/docs/custom-skills/request-and-response-json-reference.html#session-object>

A `TypeError` is raised if the input request doesn’t have the `session` information.

Parameters **handler_input** (`ask_sdk_core.handler_input.HandlerInput`) – The handler input instance that is generally passed in the sdk’s request and exception components

Returns Boolean if the session is new for the input request

Return type `bool`

Raises `TypeError` if the input request doesn’t have a session

`ask_sdk_core.utils.request_util.get_user_id(handler_input)`

Return the `userId` in the request.

The method retrieves the `userId` from the input request. This value uniquely identifies the user and is generally used as input for some Alexa-specific API calls. More information about this can be found here: <https://developer.amazon.com/docs/custom-skills/request-and-response-json-reference.html#system-object> :param `handler_input`: The handler input instance that is generally

passed in the sdk’s request and exception components

Returns Users `userId` or `None` if not available

Return type `Optional[str]`

DynamoDb Persistence Adapter

3.1 DynamoDb Persistence Adapter

```
class ask_sdk_dynamodb.adapter.DynamoDbAdapter (table_name, partition_key_name='id',
                                             attribute_name='attributes',
                                             create_table=False,           par-
                                             partition_keygen=<function
                                             user_id_partition_keygen>,       dy-
                                             dynamodb_resource=dynamodb.ServiceResource())
```

Bases: *ask_sdk_core.attributes_manager.AbstractPersistenceAdapter*

Persistence Adapter implementation using Amazon DynamoDb.

Amazon DynamoDb based persistence adapter implementation. This internally uses the AWS Python SDK (*boto3*) to process the dynamodb operations. The adapter tries to create the table if *create_table* is set, during initialization.

Parameters

- **table_name** (*str*) – Name of the table to be created or used
- **partition_key_name** (*str*) – Partition key name to be used. Defaulted to 'id'
- **attribute_name** (*str*) – Attribute name for storing and retrieving attributes from dynamodb. Defaulted to 'attributes'
- **create_table** (*bool*) – Should the adapter try to create the table if it doesn't exist. Defaulted to False
- **partition_keygen** (*Callable[[RequestEnvelope], str]*) – Callable function that takes a request envelope and provides a unique partition key value. Defaulted to user id keygen function
- **dynamodb_resource** (*boto3.resources.base.ServiceResource*) – Resource to be used, to perform dynamo operations. Defaulted to resource generated from boto3

delete_attributes (*request_envelope*)

Deletes attributes from table in Dynamodb resource.

Deletes the attributes from Dynamodb table. Raises PersistenceException if table doesn't exist or delete_item fails on the table.

Parameters **request_envelope** (*ask_sdk_model.RequestEnvelope*) – Request Envelope passed during skill invocation

Return type None

Raises *ask_sdk_core.exceptions.PersistenceException*

get_attributes (*request_envelope*)

Get attributes from table in Dynamodb resource.

Retrieves the attributes from Dynamodb table. If the table doesn't exist, returns an empty dict if the create_table variable is set as True, else it raises PersistenceException. Raises PersistenceException if get_item fails on the table.

Parameters **request_envelope** (*ask_sdk_model.RequestEnvelope*) – Request Envelope passed during skill invocation

Returns Attributes stored under the partition keygen mapping in the table

Return type Dict[str, object]

Raises *ask_sdk_core.exceptions.PersistenceException*

save_attributes (*request_envelope, attributes*)

Saves attributes to table in Dynamodb resource.

Saves the attributes into Dynamodb table. Raises PersistenceException if table doesn't exist or put_item fails on the table.

Parameters

- **request_envelope** (*ask_sdk_model.RequestEnvelope*) – Request Envelope passed during skill invocation
- **attributes** (*Dict[str, object]*) – Attributes stored under the partition keygen mapping in the table

Return type None

Raises *ask_sdk_core.exceptions.PersistenceException*

3.2 Partition Key Generator Functions

`ask_sdk_dynamodb.partition_keygen.device_id_partition_keygen` (*request_envelope*)

Retrieve device id from request envelope, to use as partition key.

Parameters **request_envelope** (*ask_sdk_model.RequestEnvelope*) – Request Envelope passed during skill invocation

Returns Device Id retrieved from request envelope

Return type str

Raises *ask_sdk_core.exceptions.PersistenceException*

`ask_sdk_dynamodb.partition_keygen.person_id_partition_keygen(request_envelope)`

Retrieve person id from request envelope, to use as object key.

This method retrieves the *person id* specific to a voice profile from the request envelope if it exists, to be used as an object key. If it doesn't exist, then the *user id* is returned instead.

Parameters `request_envelope` (`ask_sdk_model.RequestEnvelope`) – Request Envelope passed during skill invocation

Returns person Id retrieved from request envelope if exists, else fall back on User Id

Return type `str`

Raises `ask_sdk_core.exceptions.PersistenceException`

`ask_sdk_dynamodb.partition_keygen.user_id_partition_keygen(request_envelope)`

Retrieve user id from request envelope, to use as partition key.

Parameters `request_envelope` (`ask_sdk_model.RequestEnvelope`) – Request Envelope passed during skill invocation

Returns User Id retrieved from request envelope

Return type `str`

Raises `ask_sdk_core.exceptions.PersistenceException`

4.1 Standard Skill Builder

```
class ask_sdk.standard.StandardSkillBuilder (table_name=None,
                                             auto_create_table=None,           par-
                                             partition_keygen=None,           dy-
                                             namodb_client=None)
```

Bases: *ask_sdk_core.skill_builder.SkillBuilder*

Skill Builder with api client and db adapter coupling to Skill.

Standard Skill Builder is an implementation of *ask_sdk_core.skill_builder.SkillBuilder* with coupling of DynamoDb Persistence Adapter settings and a Default Api Client added to the *ask_sdk_core.skill.Skill*.

Parameters

- **table_name** (*str*) – Name of the table to be created or used
- **auto_create_table** (*bool*) – Should the adapter try to create the table if it doesn't exist.
- **partition_keygen** (*Callable[[RequestEnvelope], str]*) – Callable function that takes a request envelope and provides a unique partition key value.
- **dynamodb_client** (*boto3.resources.base.ServiceResource*) – Resource to be used, to perform dynamo operations.

```
add_custom_user_agent (user_agent)
```

Adds the user agent to the skill instance.

This method adds the passed in *user_agent* to the skill, which is reflected in the skill's response envelope.

Parameters **user_agent** (*str*) – Custom User Agent string provided by the developer.

Return type *None*

add_exception_handler (*exception_handler*)

Register input to the exception handlers list.

Parameters **exception_handler** (`ask_sdk_runtime.dispatch_components.request_components.AbstractExceptionHandler`) – Exception Handler instance to be registered.

Returns None

add_global_request_interceptor (*request_interceptor*)

Register input to the global request interceptors list.

Parameters **request_interceptor** (`ask_sdk_runtime.dispatch_components.request_components.AbstractRequestInterceptor`) – Request Interceptor instance to be registered.

Returns None

add_global_response_interceptor (*response_interceptor*)

Register input to the global response interceptors list.

Parameters **response_interceptor** (`ask_sdk_runtime.dispatch_components.request_components.AbstractResponseInterceptor`) – Response Interceptor instance to be registered.

Returns None

add_loader (*loader*)

Register input to loaders list.

Parameters **loader** (`ask_sdk_runtime.view_resolvers.AbstractTemplateLoader`) – Loader to load template from a specific data source

add_loaders (*loaders*)

Register input to the loaders list.

Parameters **loaders** (`ask_sdk_runtime.view_resolvers.AbstractTemplateLoader`) – List of loaders

add_renderer (*renderer*)

Register renderer to generate template responses.

Parameters **renderer** (`ask_sdk_runtime.view_resolvers.AbstractTemplateRenderer`) – Renderer to render the template

add_request_handler (*request_handler*)

Register input to the request handlers list.

Parameters **request_handler** (`ask_sdk_runtime.dispatch_components.request_components.AbstractRequestHandler`) – Request Handler instance to be registered.

Returns None

create ()

Create a skill object using the registered components.

Returns a skill object that can be used for invocation.

Return type Skill

exception_handler (*can_handle_func*)

Decorator that can be used to add exception handlers easily to the builder.

The `can_handle_func` has to be a Callable instance, which takes two parameters and no varargs or kwargs. This is because of the ExceptionHandler class signature restrictions. The returned wrapper function can be applied as a decorator on any function that processes the exception raised during dispatcher and returns a response object by the skill. The function should follow the signature of the handle function in `ask_sdk_runtime.dispatch_components.exception_components.AbstractExceptionHandler` class.

Parameters `can_handle_func` (`Callable[[Input, Exception], bool]`) – The function that validates if the exception can be handled.

Returns Wrapper function that can be decorated on a handle function.

`global_request_interceptor()`

Decorator that can be used to add global request interceptors easily to the builder.

The returned wrapper function can be applied as a decorator on any function that processes the input. The function should follow the signature of the process function in `ask_sdk_runtime.dispatch_components.request_components.AbstractRequestInterceptor` class.

Returns Wrapper function that can be decorated on a interceptor process function.

`global_response_interceptor()`

Decorator that can be used to add global response interceptors easily to the builder.

The returned wrapper function can be applied as a decorator on any function that processes the input and the response generated by the request handler. The function should follow the signature of the process function in `ask_sdk_runtime.dispatch_components.request_components.AbstractResponseInterceptor` class.

Returns Wrapper function that can be decorated on a interceptor process function.

`lambda_handler()`

Create a handler function that can be used as handler in AWS Lambda console.

The lambda handler provides a handler function, that acts as an entry point to the AWS Lambda console. Users can set the `lambda_handler` output to a variable and set the variable as AWS Lambda Handler on the console.

As mentioned in the [AWS Lambda Handler docs](#), the handler function receives the event attribute as a `str` representing the input request envelope JSON from Alexa service, which is deserialized to `ask_sdk_model.request_envelope.RequestEnvelope`, before invoking the skill. The output from the handler function would be the serialized `ask_sdk_model.response_envelope.ResponseEnvelope` class from the appropriate skill handler.

Returns Handler function to tag on AWS Lambda console.

`request_handler(can_handle_func)`

Decorator that can be used to add request handlers easily to the builder.

The `can_handle_func` has to be a Callable instance, which takes a single parameter and no varargs or kwargs. This is because of the RequestHandler class signature restrictions. The returned wrapper function can be applied as a decorator on any function that returns a response object by the skill. The function should follow the signature of the handle function in `ask_sdk_runtime.dispatch_components.request_components.AbstractRequestHandler` class.

Parameters `can_handle_func` (`Callable[[Input], bool]`) – The function that validates if the request can be handled.

Returns Wrapper function that can be decorated on a handle function.

`skill_configuration`

Create the skill configuration object using the registered components.

Webservice Support and Framework Adapters

5.1 ask-sdk-webservice-support package

5.1.1 ask_sdk_webservice_support.verifier_constants module

`ask_sdk_webservice_support.verifier_constants.SIGNATURE_CERT_CHAIN_URL_HEADER = 'Signature'`
Header key to be used, to retrieve request header that contains the URL for the certificate chain needed to verify the request signature. For more info, check [link](#).

`ask_sdk_webservice_support.verifier_constants.SIGNATURE_HEADER = 'Signature'`
Header key to be used, to retrieve request header that contains the request signature. For more info, check [link](#).

`ask_sdk_webservice_support.verifier_constants.CERT_CHAIN_URL_PROTOCOL = 'https'`
Case insensitive protocol to be checked on signature certificate url. For more info, check [link](#).

`ask_sdk_webservice_support.verifier_constants.CERT_CHAIN_URL_HOSTNAME = 's3.amazonaws.com'`
Case insensitive hostname to be checked on signature certificate url. For more info, check [link](#).

`ask_sdk_webservice_support.verifier_constants.CERT_CHAIN_URL_STARTPATH = '/echo.api/'`
Path presence to be checked on signature certificate url. For more info, check [link](#).

`ask_sdk_webservice_support.verifier_constants.CERT_CHAIN_URL_PORT = 443`
Port to be checked on signature certificate url. For more info, check [link](#).

`ask_sdk_webservice_support.verifier_constants.CERT_CHAIN_DOMAIN = 'echo-api.amazon.com'`
Domain presence check in Subject Alternative Names (SANs) of signing certificate. For more info, check [link](#).

`ask_sdk_webservice_support.verifier_constants.CHARACTER_ENCODING = 'utf-8'`
Character encoding used in the request.

`ask_sdk_webservice_support.verifier_constants.DEFAULT_TIMESTAMP_TOLERANCE_IN_MILLIS = 1500`
Default allowable tolerance in request timestamp. For more info, check [link](#).

`ask_sdk_webservice_support.verifier_constants.MAX_TIMESTAMP_TOLERANCE_IN_MILLIS = 3600000`
Maximum allowable tolerance in request timestamp. For more info, check [link](#).

5.1.2 ask_sdk_webservice_support.verifier module

exception ask_sdk_webservice_support.verifier.VerificationException

Bases: ask_sdk_runtime.exceptions.AskSdkException

Class for exceptions raised during Request verification.

args

with_traceback()

Exception.with_traceback(tb) – set self.__traceback__ to tb and return self.

class ask_sdk_webservice_support.verifier.AbstractVerifier

Bases: object

Abstract verifier class for implementing custom verifiers.

verify(headers, serialized_request_env, deserialized_request_env)

Abstract verify method that verifies and validates inputs.

Custom verifiers should implement this method, to validate the headers and body of the input POST request. The method returns a *VerificationException* if the validation fails, or succeeds silently.

Parameters

- **headers** (*Dict[str, Any]*) – headers of the input POST request
- **serialized_request_env** (*str*) – raw request envelope in the input POST request
- **deserialized_request_env** (*ask_sdk_model.request_envelope.RequestEnvelope*) – deserialized request envelope instance of the input POST request

Raises *VerificationException* if verification fails

class ask_sdk_webservice_support.verifier.RequestVerifier (*signature_cert_chain_url_key='SignatureCertificateChainUrlKey', signature_key='Signature', padding=<cryptography.hazmat.primitives.asymmetric.padding.Object>, hash_algorithm=<cryptography.hazmat.primitives.hashing.Object>*)

Bases: ask_sdk_webservice_support.verifier.AbstractVerifier

Verifier that performs request signature verification.

This is a concrete implementation of *AbstractVerifier* class, handling the request signature verification of the input request. This verifier uses the Cryptography module x509 functions to validate the signature chain in the input request. The verification follows the mechanism explained here : <https://developer.amazon.com/docs/custom-skills/host-a-custom-skill-as-a-web-service.html#checking-the-signature-of-the-request>

The constructor takes the header key names for retrieving Signature Certificate Chain and Signature. They are defaulted to the header names present in the *ask_sdk_webservice_support.verifier_constants*. Additionally, one can also provide the Padding and the Hash Algorithm function that is used to verify the input body.

The verify method retrieves the Signature Certificate Chain URL, validates the URL, retrieves the chain from the URL, validates the signing certificate, extract the public key, base64 decode the Signature and verifies if the hash value of the request body matches with the decrypted signature.

verify(headers, serialized_request_env, deserialized_request_env)

Verify if the input request signature and the body matches.

The verify method retrieves the Signature Certificate Chain URL, validates the URL, retrieves the chain from the URL, validates the signing certificate, extract the public key, base64 decode the Signature and verifies if the hash value of the request body matches with the decrypted signature.

Parameters

- **headers** (*Dict[str, Any]*) – headers of the input POST request
- **serialized_request_env** (*str*) – raw request envelope in the input POST request
- **deserialized_request_env** (*ask_sdk_model.request_envelope.RequestEnvelope*) – deserialized request envelope instance of the input POST request

Raises *VerificationException* if headers doesn't exist or verification fails

class ask_sdk_webservice_support.verifier.**TimestampVerifier** (*tolerance_in_millis=150000*)
 Bases: *ask_sdk_webservice_support.verifier.AbstractVerifier*

Verifier that performs request timestamp verification.

This is a concrete implementation of *AbstractVerifier* class, handling the request timestamp verification of the input request. The verification follows the mechanism explained here : <https://developer.amazon.com/docs/custom-skills/host-a-custom-skill-as-a-web-service.html#timestamp>

The constructor takes the tolerance value in milliseconds, that is the maximum tolerance limit the input request can have, with the current timestamp.

The verify method retrieves the request timestamp and check if it falls in the limit set by the tolerance.

verify (*headers, serialized_request_env, deserialized_request_env*)
 Verify if the input request timestamp is in tolerated limits.

The verify method retrieves the request timestamp and check if it falls in the limit set by the tolerance, by checking with the current timestamp in UTC.

Parameters

- **headers** (*Dict[str, Any]*) – headers of the input POST request
- **serialized_request_env** (*str*) – raw request envelope in the input POST request
- **deserialized_request_env** (*ask_sdk_model.request_envelope.RequestEnvelope*) – deserialized request envelope instance of the input POST request

Raises *VerificationException* if difference between local timestamp and input request timestamp is more than specific tolerance limit

5.1.3 ask_sdk_webservice_support.webservice_handler module

class ask_sdk_webservice_support.webservice_handler.**WebserviceSkillHandler** (*skill, verify_signature=True, verify_timestamp=True, i-fiers=None*)

Bases: *object*

Skill Handler for skill as webservice.

This class can be used by skill developers when they want their skills to be deployed as a web service, rather than using AWS Lambda.

The class constructor takes in a custom skill instance that is used for routing the input request. The boolean `verify_signature` variable configures if the request signature is verified for each input request. The boolean `verify_timestamp` configures if the request timestamp is verified for each input request. Additionally, an optional list of verifiers can also be provided, to be applied on the input request.

The `verify_request_and_dispatch` method provides the dispatch functionality that can be used as an entry point for skill invocation as web service.

verify_request_and_dispatch (*http_request_headers*, *http_request_body*)

Entry point for webservice skill invocation.

This method takes in the input request headers and request body, handles the deserialization of the input request to the `ask_sdk_model.request_envelope.RequestEnvelope` object, run the input through registered verifiers, invoke the skill and return the serialized response from the skill invocation.

Parameters

- **http_request_headers** (*Dict[str, Any]*) – Request headers of the input request to the webservice
- **http_request_body** (*str*) – Raw request body of the input request to the webservice

Returns Serialized response object returned by the skill instance, when invoked with the input request

Return type `str`

Raises `ask_sdk_core.exceptions.AskSdkException` when skill deserialization, verification, invocation or serialization fails

5.2 flask-ask-sdk package

5.2.1 flask_ask_sdk.skill_adapter module

class `flask_ask_sdk.skill_adapter.SkillAdapter` (*skill*, *skill_id*, *verifiers=None*, *app=None*)

Bases: `object`

Provides a base interface to register skill and dispatch the request.

The class constructor takes a `ask_sdk_core.skill.CustomSkill` instance, the skill id, an optional list of `ask_sdk_webservice_support.verifier.AbstractVerifier` instances and an optional flask application. One can also use the `init_app()` method, to pass in a `flask.Flask` application instance, to instantiate the config values and the webservice handler.

The `dispatch_request()` function can be used to map the input request to the skill invocation. The `register()` function can also be used alternatively, to register the `dispatch_request()` function to the provided route.

By default, the `ask_sdk_webservice_support.verifier.RequestVerifier` and `ask_sdk_webservice_support.verifier.TimestampVerifier` instances are added to the skill verifier list. To disable this, set the `VERIFY_SIGNATURE_APP_CONFIG` and `VERIFY_TIMESTAMP_APP_CONFIG` app configuration values to `False`.

An instance of the extension is added to the application extensions mapping, under the key `EXTENSION_NAME`. Since multiple skills can be configured on different routes in the same application, through multiple extension instances, each extension is added as a skill id mapping under the app extensions `EXTENSION_NAME` dictionary.

For example, to use this class with a skill created using ask-sdk-core:

```
from flask import Flask
from ask_sdk_core.skill_builder import SkillBuilder
from flask_ask_sdk.skill_adapter import SkillAdapter

app = Flask(__name__)
skill_builder = SkillBuilder()
# Register your intent handlers to skill_builder object

skill_adapter = SkillAdapter(
    skill=skill_builder.create(), skill_id=<SKILL_ID>, app=app)

@app.route("/"):
def invoke_skill:
    return skill_adapter.dispatch_request()
```

Alternatively, you can also use the `register` method:

```
from flask import Flask
from ask_sdk_core.skill_builder import SkillBuilder
from flask_ask_sdk.skill_adapter import SkillAdapter

app = Flask(__name__)
skill_builder = SkillBuilder()
# Register your intent handlers to skill_builder object

skill_adapter = SkillAdapter(
    skill=skill_builder.create(), skill_id=<SKILL_ID>, app=app)

skill_adapter.register(app=app, route="/")
```

`init_app(app)`

Register the extension on the given Flask application.

Use this function only when no Flask application was provided in the `app` keyword argument to the constructor of this class.

The function sets True defaults for `VERIFY_SIGNATURE_APP_CONFIG` and `VERIFY_TIMESTAMP_APP_CONFIG` configurations. It adds the skill id: self instance mapping to the application extensions, and creates a `ask_sdk_webservice_support.webservice_handler.WebserviceHandler` instance, for request verification and dispatch.

Parameters `app` (`flask.Flask`) – A `flask.Flask` application instance

Return type `None`

`dispatch_request()`

Method that handles request verification and routing.

This method can be used as a function to register on the URL rule. The request is verified through the registered list of verifiers, before invoking the request handlers. The method returns a JSON response for the Alexa service to respond to the request.

Returns The skill response for the input request

Return type `flask.Response`

Raises `werkzeug.exceptions.MethodNotAllowed` if the method is invoked for other than HTTP POST request. `werkzeug.exceptions.BadRequest` if the verification fails. `werkzeug.exceptions.InternalServerError` for any internal exception.

register (*app*, *route*, *endpoint=None*)

Method to register the routing on the app at provided route.

This is a utility method, that can be used for registering the `dispatch_request` on the provided `flask.Flask` application at the provided URL route.

Parameters

- **app** (*flask.Flask*) – A `flask.Flask` application instance
- **route** (*str*) – The URL rule where the skill dispatch has to be registered
- **endpoint** (*str*) – The endpoint for the registered URL rule. This can be used to set multiple skill endpoints on same app.

Return type `None`

Raises `TypeError` if *app* or *route* is not provided or is of an invalid type

`flask_ask_sdk.skill_adapter.EXTENSION_NAME = 'ASK_SDK_SKILL_ADAPTER'`
 Extension name used for saving extension instance in `app.extensions`

5.3 django-ask-sdk package

5.3.1 django_ask_sdk.skill_adapter module

class `django_ask_sdk.skill_adapter.SkillAdapter` (*skill*, *verify_signature=True*, *verify_timestamp=True*, *verifiers=None*)

Bases: `django.views.generic.base.View`

Provides a base interface to register skill and dispatch the request.

The class constructor takes a `ask_sdk_core.skill.CustomSkill` instance, an optional `verify_request` boolean, an optional `verify_timestamp` boolean and an optional list of `ask_sdk_webservice_support.verifier.AbstractVerifier` instances.

The `post()` function is the only available method on the view, that intakes the input POST request from Alexa, verifies the request and dispatch it to the skill.

By default, the `ask_sdk_webservice_support.verifier.RequestVerifier` and `ask_sdk_webservice_support.verifier.TimestampVerifier` instances are added to the skill verifier list. To disable this, set the `verify_request` and `verify_timestamp` input arguments to `False` respectively.

For example, if you developed a skill using an instance of `ask_sdk_core.skill_builder.SkillBuilder` or its subclasses, then to register it as an endpoint in your django app example, you can add the following in `example.urls.py`:

```
import skill
from django_ask_sdk.skill_response import SkillAdapter

view = SkillAdapter.as_view(skill=skill.sb.create())
```

(continues on next page)

(continued from previous page)

```
urlpatterns = [
    path("/myskill", view, name='index')
]
```

skill = None**verify_signature** = None**verify_timestamp** = None**verifiers** = None**dispatch** (*request*, *args, **kwargs)

Inspect the HTTP method and delegate to the view method.

This is the default implementation of the `django.views.View` method, which will inspect the HTTP method in the input request and delegate it to the corresponding method in the view. The only allowed method on this view is `post`.

Parameters **request** (`django.http.HttpRequest`) – The input request sent to the view

Returns The response from the view

Return type `django.http.HttpResponse`

Raises `django.http.HttpResponseNotAllowed` if the method is invoked for other than HTTP POST request. `django.http.HttpResponseBadRequest` if the request verification fails. `django.http.HttpResponseServerError` for any internal exception.

post (*request*, *args, **kwargs)

The method that handles HTTP POST request on the view.

This method is called when the view receives a HTTP POST request, which is generally the request sent from Alexa during skill invocation. The request is verified through the registered list of verifiers, before invoking the request handlers. The method returns a `django.http.JsonResponse` in case of successful skill invocation.

Parameters **request** (`django.http.HttpRequest`) – The input request sent by Alexa to the skill

Returns The response from the skill to Alexa

Return type `django.http.JsonResponse`

Raises `django.http.HttpResponseBadRequest` if the request verification fails. `django.http.HttpResponseServerError` for any internal exception.

classmethod as_view (**initkwargs)

Main entry point for a request-response process.

http_method_names = ['get', 'post', 'put', 'patch', 'delete', 'head', 'options', 'trace']**http_method_not_allowed** (*request*, *args, **kwargs)**options** (*request*, *args, **kwargs)

Handle responding to requests for the OPTIONS HTTP verb.

setup (*request*, *args, **kwargs)

Initialize attributes shared by all view methods.

`django_ask_sdk.skill_adapter.SIGNATURE_CERT_CHAIN_URL_KEY = 'HTTP_SIGNATURECERTCHAINURL'`
Signature Certificate Chain URL header key in Django HTTP Headers. This is different from the header key provided by Alexa, because of Django's HTTP Meta headers.

`django_ask_sdk.skill_adapter.SIGNATURE_KEY = 'HTTP_SIGNATURE'`
Signature header key in Django HTTP Headers. This is different from the header key provided by Alexa, because of Django's HTTP Meta headers.

S3 Persistence Adapter

6.1 S3 Persistence Adapter

class ask_sdk_s3.adapter.**S3Adapter** (*bucket_name*, *path_prefix=None*, *s3_client=None*, *object_keygen=<function user_id_keygen>*)
 Bases: *ask_sdk_core.attributes_manager.AbstractPersistenceAdapter*

Persistence Adapter implementation using AmazonS3.

Amazon S3 based persistence adapter implementation. This internally uses the AWS Python SDK (*boto3*) to process the s3 operations.

Parameters

- **bucket_name** (*str*) – S3 bucket name to be used.
- **path_prefix** (*str*) – S3 path prefix
- **s3_client** (*boto3.client*) – S3 Client to be used. Defaulted to the s3 client generated from boto3.
- **object_keygen** (*Callable[[ask_sdk_model.request_envelope.RequestEnvelope], str]*) – Callable function that takes a request envelope and provides a unique key value. Defaulted to user id keygen function.

DEFAULT_PATH_PREFIX = ''

S3_CLIENT_NAME = 's3'

S3_OBJECT_BODY_NAME = 'Body'

delete_attributes (*request_envelope*)

Deletes attributes from s3 bucket.

Parameters **request_envelope** (*ask_sdk_model.request_envelope.RequestEnvelope*) – Request Envelope passed during skill invocation

Return type *None*

Raises `ask_sdk_core.exceptions.PersistenceException`

get_attributes (`request_envelope`)

Retrieves the attributes from s3 bucket.

Parameters `request_envelope` (`ask_sdk_model.request_envelope.RequestEnvelope`) – Request Envelope passed during skill invocation

Returns attributes in the s3 bucket

Return type `Dict[str, object]`

Raises `ask_sdk_core.exceptions.PersistenceException`

save_attributes (`request_envelope`, `attributes`)

Saves attributes to the s3 bucket.

Parameters

- **request_envelope** (`ask_sdk_model.request_envelope.RequestEnvelope`) – Request Envelope passed during skill invocation
- **attributes** (`Dict[str, object]`) – attributes to store in s3

Return type `None`

Raises `ask_sdk_core.exceptions.PersistenceException`

6.2 Object Key Generator Functions

`ask_sdk_s3.object_keygen.device_id_keygen` (`request_envelope`)

Retrieve device id from request envelope.

Parameters `request_envelope` (`ask_sdk_model.RequestEnvelope`) – Request Envelope passed during skill invocation

Returns Device Id retrieved from request envelope

Return type `str`

Raises `ask_sdk_core.exceptions.PersistenceException`

`ask_sdk_s3.object_keygen.user_id_keygen` (`request_envelope`)

Retrieve user id from request envelope, to use as object key.

Parameters `request_envelope` (`ask_sdk_model.RequestEnvelope`) – Request Envelope passed during skill invocation

Returns User Id retrieved from request envelope

Return type `str`

Raises `ask_sdk_core.exceptions.PersistenceException`

7.1 SMAPI Builder Components

class `ask_smapi_sdk.smapi_builder.SmapiClientBuilder`

Bases: `object`

Abstract `SmapiClient` Builder for building `ask_smapi_model.services.skill_management.SkillManagementServiceClient` object.

api_endpoint

Returns the Endpoint to hit by the SMAPI Service.

Returns Endpoint to hit by the SMAPI service client.

Return type `str`

client ()

class `ask_smapi_sdk.smapi_builder.StandardSmapiClientBuilder` (*client_id*,
client_secret,
refresh_token)

Bases: `ask_smapi_sdk.smapi_builder.SmapiClientBuilder`

Standard `SmapiClient` Builder class used to generate `ask_smapi_model.services.skill_management.SkillManagementServiceClient` object with default `Serializer` and `ApiClient` implementations.

Parameters

- **client_id** (*str*) – The `ClientId` value from LWA profiles.
- **client_secret** (*str*) – The `ClientSecret` value from LWA profiles.
- **refresh_token** (*str*) – Client `refresh_token` required to get access token for API calls.

client ()

Creates the `smapi` client object using `AuthenticationConfiguration` and `ApiConfiguration` registered values.

Returns A `smapi` object that can be used for making SMAPI method invocations.

Return type `ask_smapi_model.services.skill_management.SkillManagementServiceClient`

api_endpoint

Returns the Endpoint to hit by the SMAPI Service.

Returns Endpoint to hit by the SMAPI service client.

Return type `str`

class `ask_smapi_sdk.smapi_builder.CustomSmapiClientBuilder` (*client_id*,
client_secret, *re-*
fresh_token, *se-*
rializer=None,
api_client=None)

Bases: `ask_smapi_sdk.smapi_builder.SmapiClientBuilder`

Smapi Custom Builder with serializer, api_client and api_endpoint setter functions.

This builder is used to create an instance of `ask_smapi_model.services.skill_management.SkillManagementServiceClient` with default Serializers and ApiClient implementations.

api_endpoint

Returns the Endpoint to hit by the SMAPI Service.

Returns Endpoint to hit by the SMAPI service client.

Return type `str`

client ()

Creates the smapi client object using AuthenticationConfiguration and ApiConfiguration registered values.

Returns A smapi object that can be used for making SMAPI method invocations.

Return type `ask_smapi_model.services.skill_management.SkillManagementServiceClient`

7.2 General Utilities

`ask_smapi_sdk.utils.get_header_value` (*header_list*, *key*)

Filter the header_list with provided key value.

This method is used to parse through the header list obtained from the SMAPI response header object and retrieve list of specific tuple objects with keys like Location, RequestId etc if present.

Parameters

- **header_list** – The list of response headers returned from Alexa SKill Management API calls.
- **key** – The field value which needs to be retrieved.

Type `List[Tuple[str, str]]`

Type `str`

Returns Returns the list field values if present, since there maybe multiple tuples with same key values.

Return type `List[Union[None,str]]`

Models Runtime :ask_sdk_model_runtime package

The Models Runtime classes contains the common models package by the Software Development Kit (SDK) team for Python that provides common implementations like Serializer, ApiClient BaseServiceClient, Authentication Configuration etc. that is used by the SDK models.

8.1 Subpackages

8.1.1 ask_sdk_model_runtime.lwa package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model_runtime.lwa.access_token module

class `ask_sdk_model_runtime.lwa.access_token.AccessToken` (*token=None*, *expiry=None*) *ex-*

Bases: `object`

Represents the access token provided by LWA (Login With Amazon).

This is a wrapper class over `ask_sdk_model_runtime.lwa.access_token_response.AccessTokenResponse` that retrieves and stores the access token, the expiry time from LWA response.

Parameters

- **token** (*str*) – access token from LWA

- **expiry** (*datetime*) – exact timestamp in UTC datetime, which is the expiry time for this access token. This is set as the combined datetime of current system time when the LWA response is received and the expiry time in seconds, provided in the LWA response.

ask_sdk_model_runtime.lwa.access_token_request module

```
class ask_sdk_model_runtime.lwa.access_token_request.AccessTokenRequest (client_id=None,
                                                                    client_secret=None,
                                                                    scope=None,
                                                                    re-
                                                                    fresh_token=None)
```

Bases: `object`

Request for retrieving an access token from LWA.

Parameters

- **client_id** (*str*) – The ClientId value from developer console
- **client_secret** (*str*) – The ClientSecret value from developer console
- **scope** (*str*) – The required scope for which the access token is requested for
- **refresh_token** (*str*) – Client refresh_token required to get access token for API calls.

```
attribute_map = {'client_id': 'client_id', 'client_secret': 'client_secret', 'refresh_token': 'refresh_token'}
```

```
deserialized_types = {'client_id': 'str', 'client_secret': 'str', 'refresh_token': 'str'}
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_sdk_model_runtime.lwa.access_token_response module

```
class ask_sdk_model_runtime.lwa.access_token_response.AccessTokenResponse (access_token=None,
                                                                    expires_in=None,
                                                                    scope=None,
                                                                    token_type=None)
```

Bases: `object`

LWA response for retrieving an access token.

Parameters

- **access_token** (*str*) – The access token from LWA
- **expires_in** (*int*) – The duration in seconds of the access token lifetime
- **scope** (*str*) – The scope specified in the access token request
- **token_type** (*str*) – The type of token issued

```
attribute_map = {'access_token': 'access_token', 'expires_in': 'expires_in', 'scope': 'scope', 'token_type': 'token_type'}
```

```
deserialized_types = {'access_token': 'str', 'expires_in': 'int', 'scope': 'str', 'token_type': 'str'}
```

```

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_sdk_model_runtime.lwa.error module

```

class ask_sdk_model_runtime.lwa.error.Error (error_description=None, error_type=None)
    Bases: object
    
```

Error from LWA Client request.

Parameters

- **error_description** (*(optional) str*) – Description of the error
- **error_type** (*(optional) str*) – Type of error

```

attribute_map = {'error_description': 'error_description', 'error_type': 'error'}
deserialized_types = {'error_description': 'str', 'error_type': 'str'}
    
```

```

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_sdk_model_runtime.lwa.lwa_client module

```

class ask_sdk_model_runtime.lwa.lwa_client.LwaClient (api_configuration, authentication_configuration,
                                                    grant_type=None)
    Bases: ask_sdk_model_runtime.base_service_client.BaseServiceClient
    
```

Client to call Login with Amazon (LWA) to retrieve access tokens.

Parameters

- **api_configuration** (`ask_sdk_model_runtime.api_configuration.ApiConfiguration`) – ApiConfiguration instance with valid Serializer and ApiClient. The authorization value and api endpoint is not used by the LWA Client.
- **authentication_configuration** (`ask_sdk_model_runtime.authentication_configuration.AuthenticationConfiguration`) – AuthenticationConfiguration instance with valid client id and client secret, for making LWA calls.
- **grant_type** (*(optional) str*) – The grant type which is used to make the HTTP request.

Raises `ValueError` if authentication configuration is not provided.

```

CLIENT_CREDENTIALS_GRANT_TYPE = 'client_credentials'
DEFAULT_LWA_ENDPOINT = 'https://api.amazon.com'
EXPIRY_OFFSET_IN_MILLIS = 60000
LWA_CREDENTIALS_GRANT_TYPE = 'refresh_token'
REFRESH_ACCESS_TOKEN = 'refresh_access_token'
    
```

get_access_token_for_scope (*scope*)

Retrieve access token for given scope.

Parameters **scope** (*str*) – Target scope for the access token

Returns Retrieved access token for the given scope and configured client id, client secret

Return type *str*

Raises `ValueError` is no scope is passed.

get_access_token_from_refresh_token ()

Retrieve access token for Skill Management API calls.

Returns Retrieved access token for the given refresh_token and configured client id, client secret

Return type *str*

8.2 Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

8.3 ask_sdk_model_runtime.api_client module

class `ask_sdk_model_runtime.api_client.ApiClient`

Bases: `object`

Represents a basic contract for API request invocation.

invoke (*request*)

Dispatches a request to an API endpoint described in the request. The `ApiClient` is expected to resolve in the case an API returns a non-200 HTTP status code. The responsibility of translating a particular response code to an error lies with the caller. :param request: Request to dispatch to the `ApiClient` :type request: `ApiClientRequest` :return: Response from the client call :rtype: `ApiClientResponse`

class `ask_sdk_model_runtime.api_client.DefaultApiClient`

Bases: `ask_sdk_model_runtime.api_client.ApiClient`

Default `ApiClient` implementation of `ask_sdk_model_runtime.api_client.ApiClient` using the `requests` library.

invoke (*request*)

Dispatches a request to an API endpoint described in the request. Resolves the method from input request object, converts the list of header tuples to the required format (dict) for the `requests` lib call and invokes the method with corresponding parameters on `requests` library. The response from the call is wrapped under the `ApiClientResponse` object and the responsibility of translating a response code and response/ error lies with the caller. :param request: Request to dispatch to the `ApiClient` :type request: `ApiClientRequest` :return: Response from the client call :rtype: `ApiClientResponse` :raises: `ask_sdk_model_runtime.exceptions.ApiClientException`

8.4 ask_sdk_model_runtime.api_client_message module

class ask_sdk_model_runtime.api_client_message.**ApiClientMessage** (*headers=None, body=None*)

Bases: object

Represents the interface between `ask_sdk_model_runtime.api_client.ApiClient` implementation and a Service Client.

Parameters

- **headers** (*list[tuple[str, str]]*) – List of header tuples
- **body** (*str*) – Body of the message

8.5 ask_sdk_model_runtime.api_client_request module

class ask_sdk_model_runtime.api_client_request.**ApiClientRequest** (*headers=None, body=None, url=None, method=None*)

Bases: `ask_sdk_model_runtime.api_client_message.ApiClientMessage`

Represents a request sent from Service Clients to an `ask_sdk_model_runtime.api_client.ApiClient` implementation.

Parameters

- **headers** (*list[tuple[str, str]]*) – List of header tuples
- **body** (*str*) – Body of the message
- **url** (*str*) – Url of the request
- **method** (*str*) – Method called with the request

8.6 ask_sdk_model_runtime.api_client_response module

class ask_sdk_model_runtime.api_client_response.**ApiClientResponse** (*headers=None, body=None, status_code=None*)

Bases: `ask_sdk_model_runtime.api_client_message.ApiClientMessage`

Represents a response returned by `ask_sdk_model_runtime.api_client.ApiClient` implementation to a Service Client.

Parameters

- **headers** (*list[tuple[str, str]]*) – List of header tuples
- **body** (*str*) – Body of the message
- **status_code** (*int*) – Status code of the response

8.7 ask_sdk_model_runtime.api_configuration module

```
class ask_sdk_model_runtime.api_configuration.ApiConfiguration (serializer=None,  
api_client=None,  
authoriza-  
tion_value=None,  
api_endpoint=None)
```

Bases: `object`

Represents a class that provides API configuration options needed by service clients.

Parameters

- **serializer** (*(optional) ask_sdk_model_runtime.serializer.Serializer*) – serializer implementation for encoding/decoding JSON from/to Object models.
- **api_client** (*(optional) ask_sdk_model_runtime.api_client.ApiClient*) – API Client implementation
- **authorization_value** (*(optional) str*) – Authorization value to be used on any calls of the service client instance
- **api_endpoint** (*(optional) str*) – Endpoint to hit by the service client instance

8.8 ask_sdk_model_runtime.api_response module

```
class ask_sdk_model_runtime.api_response.ApiResponse (headers=None, body=None,  
status_code=None)
```

Bases: `object`

Represents a response returned by the Service Client.

Parameters

- **headers** (*list[tuple[str, str]]*) – List of header tuples
- **body** (*object*) – Body of the response
- **status_code** (*int*) – Status code of the response

8.9 ask_sdk_model_runtime.authentication_configuration module

```
class ask_sdk_model_runtime.authentication_configuration.AuthenticationConfiguration (client_id,  
client_secret,  
refresh_token)
```

Bases: `object`

Represents a class that provides authentication configuration.

Parameters

- **client_id** (*str*) – Client ID required for authentication.
- **client_secret** (*str*) – Client Secret required for authentication.
- **refresh_token** (*str*) – Client refresh_token required to get access token for API calls.

8.10 ask_sdk_model_runtime.base_service_client module

class `ask_sdk_model_runtime.base_service_client.BaseServiceClient` (*api_configuration*)

Bases: `object`

Class to be used as the base class for the generated service clients.

The class has to be implemented by the service clients and this class instantiation is not supported

Parameters `api_configuration` (`ask_sdk_model_runtime.api_configuration.ApiConfiguration`) – ApiConfiguration implementation

invoke (*method, endpoint, path, query_params, header_params, path_params, response_definitions, body, response_type*)

Calls the ApiClient based on the ServiceClient specific data provided as well as handles the well-known responses from the Api.

Parameters

- **method** (*str*) – Http method
- **endpoint** – Base endpoint to make the request to
- **path** (*str*) – Specific path to hit. It might contain variables to be interpolated with `path_params`
- **query_params** (*list(tuple(str, str))*) – Parameter values to be sent as part of query string
- **header_params** (*list(tuple(str, str))*) – Parameter values to be sent as headers
- **path_params** (*dict(str, str)*) – Parameter values to be interpolated in the path
- **response_definitions** (*list(ask_sdk_model_runtime.service_client_response.ServiceClientResponse)*) – Well-known expected responses by the ServiceClient
- **body** (*object*) – Request body
- **response_type** (*class*) – Type of the expected response if applicable

Returns `ApiResponse` object.

Return type `ask_sdk_model_runtime.api_response.py`

Raises `ask_sdk_model_runtime.exceptions.ServiceException` if service fails and `ValueError` if serializer or API Client is not configured in `api_configuration` # noqa: E501

8.11 ask_sdk_model_runtime.exceptions module

exception `ask_sdk_model_runtime.exceptions.ApiClientException`

Bases: `Exception`

Exception class for ApiClient Adapter processing.

exception `ask_sdk_model_runtime.exceptions.SerializationException`

Bases: `Exception`

Class for exceptions raised during serialization/deserialization.

exception `ask_sdk_model_runtime.exceptions.ServiceException` (*message*, *status_code*, *headers*, *body*)

Bases: `Exception`

Exception thrown by a Service client when an error response was received or some operation failed.

Parameters

- **message** (*str*) – Description of the error
- **status_code** (*int*) – Status code of the HTTP Response
- **headers** (*list(tuple(str, str))*) – Headers of the Http response that return the failure
- **body** (*object*) – Body of the HTTP Response

8.12 ask_sdk_model_runtime.serializer module

class `ask_sdk_model_runtime.serializer.DefaultSerializer`

Bases: `ask_sdk_model_runtime.serializer.Serializer`

NATIVE_TYPES_MAPPING = {'bool': <class 'bool'>, 'date': <class 'datetime.date'>, 'da

PRIMITIVE_TYPES = (<class 'float'>, <class 'bool'>, <class 'bytes'>, <class 'str'>, <c

deserialize (*payload*, *obj_type*)

Deserializes payload into an instance of provided *obj_type*.

The *obj_type* parameter can be a primitive type, a generic model object or a list / dict of model objects.

The list or dict object type has to be provided as a string format. For eg:

- 'list[a.b.C]' if the payload is a list of instances of class a.b.C.
- 'dict(str, a.b.C)' if the payload is a dict containing mappings of *str* : a.b.C class instance types.

The method looks for a `deserialized_types` dict in the model class, that mentions which payload values has to be deserialized. In case the payload key names are different than the model attribute names, the corresponding mapping can be provided in another special dict `attribute_map`. The model class should also have the `__init__` method with default values for arguments. Check `ask_sdk_model.request_envelope.RequestEnvelope` source code for an example implementation.

Parameters

- **payload** (*str*) – data to be deserialized.
- **obj_type** (*Union[object, str]*) – resolved class name for deserialized object

Returns deserialized object

Return type `object`

Raises `ask_sdk_model_runtime.exceptions.SerializationException`

serialize (*obj*)

Builds a serialized object.

- If *obj* is None, return None.
- If *obj* is str, int, long, float, bool, return directly.

- If obj is datetime.datetime, datetime.date convert to string in iso8601 format.
- If obj is list, serialize each element in the list.
- If obj is dict, return the dict with serialized values.
- If obj is ask sdk model, return the dict with keys resolved from the union of model's `attribute_map` and `deserialized_types` and values serialized based on `deserialized_types`.
- If obj is a generic class instance, return the dict with keys from instance's `deserialized_types` and values serialized based on `deserialized_types`.

Parameters `obj` (*object*) – The data to serialize.

Returns The serialized form of data.

Return type Union[Dict[str, Any], List, Tuple, str, int, float, bytes, None]

class `ask_sdk_model_runtime.serializer.Serializer`

Bases: `object`

Represents an abstract object used for Serialization tasks.

deserialize (*payload, obj_type*)

Deserializes the payload to object of provided obj_type.

Parameters

- **payload** (*str*) – String to deserialize
- **obj_type** (*object*) – Target type of deserialization

Returns Deserialized object

Return type `object`

serialize (*obj*)

Serializes an object into a string.

Parameters `obj` – object to serialize

Returns serialized object in string format

Return type `str`

8.13 ask_sdk_model_runtime.service_client_response module

class `ask_sdk_model_runtime.service_client_response.ServiceClientResponse` (*response_type, status_code, message*)

Bases: `object`

Represents a well-known response object by Service Client.

Parameters

- **response_type** (*Response class*) – Well-known representation of the response
- **status_code** (*int*) – Status code to be attached to the response

- **message** (*str*) – Message to be attached to the response

Models :ask_sdk_model package

The SDK works on model classes rather than native Alexa JSON requests and responses. These model classes are generated using the Request, Response JSON schemas from the [developer docs](#). The source code for the model classes can be found [here](#).

9.1 Subpackages

9.1.1 ask_sdk_model.canfulfill package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.canfulfill.can_fulfill_intent module

```
class ask_sdk_model.canfulfill.can_fulfill_intent.CanFulfillIntent (can_fulfill=None,  
                                                                slots=None)
```

Bases: `object`

`CanFulfillIntent` represents the response to `canFulfillIntentRequest` includes the details about whether the skill can understand and fulfill the intent request with detected slots.

Parameters

- **can_fulfill** ((*optional*) `ask_sdk_model.canfulfill.can_fulfill_intent_values.CanFulfillIntentValues`)–

- **slots** ((optional) dict(str, ask_sdk_model.canfulfill.can_fulfill_slot.CanFulfillSlot)) – A map that represents skill’s detailed response to each detected slot within the intent such as if skill can understand and fulfill the detected slot. This supplements the overall canFulfillIntent response and help Alexa make better ranking and arbitration decisions. The key is the name of the slot. The value is an object of type CanFulfillSlot.

```
attribute_map = {'can_fulfill': 'canFulfill', 'slots': 'slots'}
```

```
deserialized_types = {'can_fulfill': 'ask_sdk_model.canfulfill.can_fulfill_intent_val
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_sdk_model.canfulfill.can_fulfill_intent_request module

```
class ask_sdk_model.canfulfill.can_fulfill_intent_request.CanFulfillIntentRequest (request_id=  
times-  
tamp=None,  
lo-  
cale=None,  
di-  
a-  
log_state=N  
in-  
tent=None)
```

Bases: `ask_sdk_model.request.Request`

An object that represents a request made to skill to query whether the skill can understand and fulfill the intent request with detected slots, before actually asking the skill to take action. Skill should be aware this is not to actually take action, skill should handle this request without causing side-effect, skill should not modify some state outside its scope or has an observable interaction with its calling functions or the outside world besides returning a value, such as playing sound, turning on/off lights, committing a transaction or a charge.

Parameters

- **request_id** ((optional) str) – Represents the unique identifier for the specific request.
- **timestamp** ((optional) datetime) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** ((optional) str) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **dialog_state** ((optional) ask_sdk_model.dialog_state.DialogState) –
- **intent** ((optional) ask_sdk_model.intent.Intent) –

```
attribute_map = {'dialog_state': 'dialogState', 'intent': 'intent', 'locale': 'loca
```

```
deserialized_types = {'dialog_state': 'ask_sdk_model.dialog_state.DialogState', 'inte
```

```
supports_multiple_types = False
```

```

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_sdk_model.canfulfill.can_fulfill_intent_values module

```

class ask_sdk_model.canfulfill.can_fulfill_intent_values.CanFulfillIntentValues
    Bases: enum.Enum

```

Overall if skill can understand and fulfill the intent with detected slots. Respond YES when skill understands all slots, can fulfill all slots, and can fulfill the request in its entirety. Respond NO when skill either cannot understand the intent, cannot understand all the slots, or cannot fulfill all the slots. Respond MAYBE when skill can understand the intent, can partially or fully understand the slots, and can partially or fully fulfill the slots. The only cases where should respond MAYBE is when skill partially understand the request and can potentially complete the request if skill get more data, either through callbacks or through a multi-turn conversation with the user.

Allowed enum values: [YES, NO, MAYBE]

```

MAYBE = 'MAYBE'

NO = 'NO'

YES = 'YES'

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_sdk_model.canfulfill.can_fulfill_slot module

```

class ask_sdk_model.canfulfill.can_fulfill_slot.CanFulfillSlot (can_understand=None,
    can_fulfill=None)

    Bases: object

```

This represents skill's capability to understand and fulfill each detected slot.

Parameters

- **can_understand** ((*optional*) `ask_sdk_model.canfulfill.can_understand_slot_values.CanUnderstandSlotValues`)-
- **can_fulfill** ((*optional*) `ask_sdk_model.canfulfill.can_fulfill_slot_values.CanFulfillSlotValues`)-

```

attribute_map = {'can_fulfill': 'canFulfill', 'can_understand': 'canUnderstand'}

deserialized_types = {'can_fulfill': 'ask_sdk_model.canfulfill.can_fulfill_slot_value

supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_sdk_model.canfulfill.can_fulfill_slot_values module

class ask_sdk_model.canfulfill.can_fulfill_slot_values.**CanFulfillSlotValues**

Bases: `enum.Enum`

This field indicates whether skill can fulfill relevant action for the slot, that has been partially or fully understood. The definition of fulfilling the slot is dependent on skill and skill is required to have logic in place to determine whether a slot value can be fulfilled in the context of skill or not. Return YES if Skill can certainly fulfill the relevant action for this slot value. Return NO if skill cannot fulfill the relevant action for this slot value. For specific recommendations to set the value refer to the developer docs for more details.

Allowed enum values: [YES, NO]

NO = 'NO'

YES = 'YES'

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.canfulfill.can_understand_slot_values module

class ask_sdk_model.canfulfill.can_understand_slot_values.**CanUnderstandSlotValues**

Bases: `enum.Enum`

This field indicates whether skill has understood the slot value. In most typical cases, skills will do some form of entity resolution by looking up a catalog or list to determine whether they recognize the slot or not. Return YES if skill have a perfect match or high confidence match (for eg. synonyms) with catalog or list maintained by skill. Return NO if skill cannot understand or recognize the slot value. Return MAYBE if skill have partial confidence or partial match. This will be true when the slot value doesn't exist as is, in the catalog, but a variation or a fuzzy match may exist. For specific recommendations to set the value refer to the developer docs for more details.

Allowed enum values: [YES, NO, MAYBE]

MAYBE = 'MAYBE'

NO = 'NO'

YES = 'YES'

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

9.1.2 ask_sdk_model.dialog package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package a has module b with class C, you can do `from a import C` instead of `from a.b import C`.

`ask_sdk_model.dialog.confirm_intent_directive` module

class `ask_sdk_model.dialog.confirm_intent_directive.ConfirmIntentDirective` (*updated_intent=None*)
 Bases: `ask_sdk_model.directive.Directive`

Parameters `updated_intent` ((*optional*) `ask_sdk_model.intent.Intent`)-

`attribute_map` = {'object_type': 'type', 'updated_intent': 'updatedIntent'}

`deserialized_types` = {'object_type': 'str', 'updated_intent': 'ask_sdk_model.intent.'

`supports_multiple_types` = False

`to_dict()`
 Returns the model properties as a dict

`to_str()`
 Returns the string representation of the model

`ask_sdk_model.dialog.confirm_slot_directive` module

class `ask_sdk_model.dialog.confirm_slot_directive.ConfirmSlotDirective` (*updated_intent=None, slot_to_confirm=None*)
 Bases: `ask_sdk_model.directive.Directive`

Parameters

- `updated_intent` ((*optional*) `ask_sdk_model.intent.Intent`)-
- `slot_to_confirm` ((*optional*) `str`)-

`attribute_map` = {'object_type': 'type', 'slot_to_confirm': 'slotToConfirm', 'updated'

`deserialized_types` = {'object_type': 'str', 'slot_to_confirm': 'str', 'updated_intent'

`supports_multiple_types` = False

`to_dict()`
 Returns the model properties as a dict

`to_str()`
 Returns the string representation of the model

`ask_sdk_model.dialog.delegate_directive` module

class `ask_sdk_model.dialog.delegate_directive.DelegateDirective` (*updated_intent=None*)
 Bases: `ask_sdk_model.directive.Directive`

Parameters `updated_intent` ((*optional*) `ask_sdk_model.intent.Intent`)-

`attribute_map` = {'object_type': 'type', 'updated_intent': 'updatedIntent'}

`deserialized_types` = {'object_type': 'str', 'updated_intent': 'ask_sdk_model.intent.'

`supports_multiple_types` = False

`to_dict()`
 Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_sdk_model.dialog.dynamic_entities_directive` module

class `ask_sdk_model.dialog.dynamic_entities_directive.DynamicEntitiesDirective` (*update_behavior*, *types=None*)

Bases: `ask_sdk_model.directive.Directive`

Parameters

- **update_behavior** ((*optional*) `ask_sdk_model.er.dynamic.update_behavior.UpdateBehavior`)–
- **types** ((*optional*) `list[ask_sdk_model.er.dynamic.entity_list_item.EntityListItem]`)–

`attribute_map` = {'object_type': 'type', 'types': 'types', 'update_behavior': 'update_behavior'}

`deserialized_types` = {'object_type': 'str', 'types': 'list[ask_sdk_model.er.dynamic.entity_list_item.EntityListItem]'}–

`supports_multiple_types` = **False**

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_sdk_model.dialog.elicit_slot_directive` module

class `ask_sdk_model.dialog.elicit_slot_directive.ElicitSlotDirective` (*updated_intent=None*, *slot_to_elicit=None*)

Bases: `ask_sdk_model.directive.Directive`

Parameters

- **updated_intent** ((*optional*) `ask_sdk_model.intent.Intent`)–
- **slot_to_elicit** ((*optional*) `str`)–

`attribute_map` = {'object_type': 'type', 'slot_to_elicit': 'slotToElicit', 'updated_intent': 'updated_intent'}

`deserialized_types` = {'object_type': 'str', 'slot_to_elicit': 'str', 'updated_intent': 'Intent'}

`supports_multiple_types` = **False**

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

9.1.3 `ask_sdk_model.er` package

Subpackages

`ask_sdk_model.er.dynamic` package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

`ask_sdk_model.er.dynamic.entity` module

class `ask_sdk_model.er.dynamic.entity.Entity` (*id=None, name=None*)

Bases: `object`

Represents an entity that the skill wants to store. An entity has an optional Id and the value and the synonyms for the entity

Parameters

- **id** (*optional*) `str` – An unique id associated with the entity
- **name** (*optional*) `ask_sdk_model.er.dynamic.entity_value_and_synonyms.EntityValueAndSynonyms` –

`attribute_map = {'id': 'id', 'name': 'name'}`

`deserialized_types = {'id': 'str', 'name': 'ask_sdk_model.er.dynamic.entity_value_and_synonyms.EntityValueAndSynonyms'}`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

`ask_sdk_model.er.dynamic.entity_list_item` module

class `ask_sdk_model.er.dynamic.entity_list_item.EntityListItem` (*name=None, values=None*)

Bases: `object`

Represents an array of entities of a particular type.

Parameters

- **name** (*optional*) `str` – The entity type. Must match the slot type as defined in the interaction model.
- **values** (*optional*) `list[ask_sdk_model.er.dynamic.entity.Entity]` – A list of dynamic entities which are of the same type

`attribute_map = {'name': 'name', 'values': 'values'}`

`deserialized_types = {'name': 'str', 'values': 'list[ask_sdk_model.er.dynamic.entity.Entity]'}`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_sdk_model.er.dynamic.entity_value_and_synonyms` module

class `ask_sdk_model.er.dynamic.entity_value_and_synonyms.EntityValueAndSynonyms` (*value=None, synonyms=None*)

Bases: `object`

A container object with value and synonyms for the entity

Parameters

- **value** (*optional*) `str` – The entity value
- **synonyms** (*optional*) `list[str]` – An array of synonyms for the entity

`attribute_map = {'synonyms': 'synonyms', 'value': 'value'}`

`deserialized_types = {'synonyms': 'list[str]', 'value': 'str'}`

`supports_multiple_types = False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_sdk_model.er.dynamic.update_behavior` module

class `ask_sdk_model.er.dynamic.update_behavior.UpdateBehavior`

Bases: `enum.Enum`

Replace the existing dynamic entities or clear them from the catalog

Allowed enum values: [REPLACE, CLEAR]

`CLEAR = 'CLEAR'`

`REPLACE = 'REPLACE'`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

9.1.4 `ask_sdk_model.events` package

Subpackages

`ask_sdk_model.events.skillevents` package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

`ask_sdk_model.events.skillevents.account_linked_body` module

class `ask_sdk_model.events.skillevents.account_linked_body.AccountLinkedBody` (*access_token=None*)
 Bases: `object`

Parameters `access_token` (*optional*) *str* –

`attribute_map` = {'access_token': 'accessToken'}

`deserialized_types` = {'access_token': 'str'}

`supports_multiple_types` = `False`

`to_dict` ()

Returns the model properties as a dict

`to_str` ()

Returns the string representation of the model

`ask_sdk_model.events.skillevents.account_linked_request` module

class `ask_sdk_model.events.skillevents.account_linked_request.AccountLinkedRequest` (*request_id=None, timestamp=None, locale=None, body=None, event_created_at=None, event_public_timestamp=None*)

Bases: `ask_sdk_model.request.Request`

This event indicates that a customer has linked an account in a third-party application with the Alexa app. This event is useful for an application that support out-of-session (non-voice) user interactions so that this application can be notified when the internal customer can be associated with the Alexa customer. This event is required for many applications that synchronize customer Alexa lists with application lists. During the account linking process, the Alexa app directs the user to the skill website where the customer logs in. When the customer logs in, the skill then provides an access token and a consent token to Alexa. The event includes the same access token and consent token.

Parameters

- **request_id** (*optional*) *str* – Represents the unique identifier for the specific request.
- **timestamp** (*optional*) *datetime* – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional*) *str* – A string indicating the user's locale. For example: en-US. This value is only provided with certain request types.

- **body** ((*optional*) *ask_sdk_model.events.skillevents.account_linked_body.AccountLinkedBody*)–
- **event_creation_time**((*optional*) *datetime*)–
- **event_publishing_time**((*optional*) *datetime*)–

```

attribute_map = {'body': 'body', 'event_creation_time': 'eventCreationTime', 'event_
deserialized_types = {'body': 'ask_sdk_model.events.skillevents.account_linked_body.A
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.events.skillevents.permission module

```

class ask_sdk_model.events.skillevents.permission.Permission(scope=None)
    Bases: object
        Parameters scope((optional) str)–
attribute_map = {'scope': 'scope'}
deserialized_types = {'scope': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.events.skillevents.permission_accepted_request module

```

class ask_sdk_model.events.skillevents.permission_accepted_request.PermissionAcceptedRequest

```

Bases: *ask_sdk_model.request.Request*

Parameters

- **request_id**((*optional*) *str*) – Represents the unique identifier for the specific request.
- **timestamp**((*optional*) *datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale**((*optional*) *str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.

- **body** ((optional) ask_sdk_model.events.skillevents.permission_body.PermissionBody)–
- **event_creation_time**((optional) datetime)–
- **event_publishing_time**((optional) datetime)–

```

attribute_map = {'body': 'body', 'event_creation_time': 'eventCreationTime', 'event_
deserialized_types = {'body': 'ask_sdk_model.events.skillevents.permission_body.Permi
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.events.skillevents.permission_body module

```

class ask_sdk_model.events.skillevents.permission_body.PermissionBody(accepted_permissions=None)
    Bases: object
        Parameters accepted_permissions ((optional) list[ask_sdk_model.
            events.skillevents.permission.Permission])–
        attribute_map = {'accepted_permissions': 'acceptedPermissions'}
        deserialized_types = {'accepted_permissions': 'list[ask_sdk_model.events.skillevents.
        supports_multiple_types = False
        to_dict()
            Returns the model properties as a dict
        to_str()
            Returns the string representation of the model

```

ask_sdk_model.events.skillevents.permission_changed_request module

```

class ask_sdk_model.events.skillevents.permission_changed_request.PermissionChangedRequest

```

Bases: `ask_sdk_model.request.Request`

Parameters

- **request_id**((optional) str) – Represents the unique identifier for the specific request.
- **timestamp**((optional) datetime) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.

- **locale** ((*optional*) *str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **body** ((*optional*) `ask_sdk_model.events.skillevents.permission_body.PermissionBody`) –
- **event_creation_time** ((*optional*) *datetime*) –
- **event_publishing_time** ((*optional*) *datetime*) –

```
attribute_map = {'body': 'body', 'event_creation_time': 'eventCreationTime', 'event_
deserialized_types = {'body': 'ask_sdk_model.events.skillevents.permission_body.Permi
supports_multiple_types = False
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_sdk_model.events.skillevents.proactive_subscription_changed_body module

```
class ask_sdk_model.events.skillevents.proactive_subscription_changed_body.ProactiveSubscri
    Bases: object
```

Parameters **subscriptions** ((*optional*) *list*[`ask_sdk_model.events.skillevents.proactive_subscription_event.ProactiveSubscriptionEvent`]) – The list of events that this customer is currently subscribed to. If a customer unsubscribes from an event, this list will contain remaining event types to which the customer is still subscribed to receive from your skill. If the list of subscriptions is empty, this customer has unsubscribed from all event types from your skill.

```
attribute_map = {'subscriptions': 'subscriptions'}
deserialized_types = {'subscriptions': 'list[ask_sdk_model.events.skillevents.proacti
supports_multiple_types = False
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_sdk_model.events.skillevents.proactive_subscription_changed_request module

```
class ask_sdk_model.events.skillevents.proactive_subscription_changed_request.ProactiveSubscri
```

Bases: `ask_sdk_model.request.Request`

This event indicates a customer subscription to receive events from your skill and contains information for that user. You need this information to know the `userId` in order to send events to individual users. Note that these events can arrive out of order, so ensure that your skill service uses the timestamp in the event to correctly record the latest subscription state for a customer.

Parameters

- **request_id** (*optional* *str*) – Represents the unique identifier for the specific request.
- **timestamp** (*optional* *datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional* *str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **body** (*optional* `ask_sdk_model.events.skillevents.proactive_subscription_changed_body.ProactiveSubscriptionChangedBody`) –

```

attribute_map = {'body': 'body', 'locale': 'locale', 'object_type': 'type', 'request_id': 'request_id', 'timestamp': 'timestamp', 'locale': 'locale'}
deserialized_types = {'body': 'ask_sdk_model.events.skillevents.proactive_subscription_changed_body.ProactiveSubscriptionChangedBody'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.events.skillevents.proactive_subscription_event module

```

class ask_sdk_model.events.skillevents.proactive_subscription_event.ProactiveSubscriptionEvent
    Bases: object
    
```

Parameters **event_name** (*optional* *str*) –

```

attribute_map = {'event_name': 'eventName'}
deserialized_types = {'event_name': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.events.skillevents.skill_disabled_request module

```

class ask_sdk_model.events.skillevents.skill_disabled_request.SkillDisabledRequest (request_id=None, timestamp=None, locale=None, event_created_at=None, event_public_id=None)
    Bases: ask_sdk_model.request.Request
    
```

Parameters

- **request_id** (*optional* *str*) – Represents the unique identifier for the specific request.
- **timestamp** (*optional* *datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional* *str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **event_creation_time** (*optional* *datetime*) –
- **event_publishing_time** (*optional* *datetime*) –

```

attribute_map = {'event_creation_time': 'eventCreationTime', 'event_publishing_time':
deserialized_types = {'event_creation_time': 'datetime', 'event_publishing_time': 'd
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.events.skillevents.skill_enabled_request module

```

class ask_sdk_model.events.skillevents.skill_enabled_request.SkillEnabledRequest (request_id=None,
times-
tamp=None,
lo-
cale=None,
event_creation
event_publish

```

Bases: *ask_sdk_model.request.Request*

Parameters

- **request_id** (*optional* *str*) – Represents the unique identifier for the specific request.
- **timestamp** (*optional* *datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional* *str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **event_creation_time** (*optional* *datetime*) –
- **event_publishing_time** (*optional* *datetime*) –

```

attribute_map = {'event_creation_time': 'eventCreationTime', 'event_publishing_time':
deserialized_types = {'event_creation_time': 'datetime', 'event_publishing_time': 'd
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict

```

```

to_str()
    Returns the string representation of the model

```

9.1.5 ask_sdk_model.interfaces package

Subpackages

ask_sdk_model.interfaces.alexa package

Subpackages

ask_sdk_model.interfaces.alexa.presentation package

Subpackages

ask_sdk_model.interfaces.alexa.presentation.apl package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.interfaces.alexa.presentation.apl.alexa_presentation_apl_interface module

```

class ask_sdk_model.interfaces.alexa.presentation.apl.alexa_presentation_apl_interface.AlexaPresentationAplInterface
    Bases: object
        Parameters runtime ((optional) ask_sdk_model.interfaces.alexa.presentation.apl.runtime.Runtime)–
        attribute_map = {'runtime': 'runtime'}
        deserialized_types = {'runtime': 'ask_sdk_model.interfaces.alexa.presentation.apl.runtime.Runtime'}
        supports_multiple_types = False
        to_dict()
            Returns the model properties as a dict
        to_str()
            Returns the string representation of the model

```

ask_sdk_model.interfaces.alexa.presentation.apl.align module

```

class ask_sdk_model.interfaces.alexa.presentation.apl.align.Align
    Bases: enum.Enum
        The alignment of the item after scrolling. Defaults to visible.

```

Allowed enum values: [center, first, last, visible]

`center = 'center'`

`first = 'first'`

`last = 'last'`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

`visible = 'visible'`

`ask_sdk_model.interfaces.alexa.presentation.apl.animate_item_command` module

`class ask_sdk_model.interfaces.alexa.presentation.apl.animate_item_command.AnimateItemComm`

Bases: `ask_sdk_model.interfaces.alexa.presentation.apl.command.Command`

Runs a fixed-duration animation sequence on one or more properties of a single component.

Parameters

- **delay** (*optional* `int`) – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** (*optional* `str`) – A user-provided description of this command.
- **when** (*optional* `bool`) – If false, the execution of the command is skipped. Defaults to true.
- **component_id** (*optional* `str`) – The ID of the animated component.
- **duration** (*optional* `int`) – The duration of the animation (in milliseconds).
- **easing** (`str`) – The easing curve.
- **repeat_count** (*optional* `int`) – Number of times to repeat.
- **repeat_mode** (*optional* `ask_sdk_model.interfaces.alexa.presentation.apl.animate_item_repeat_mode.AnimateItemRepeatMode`) –

- **value** ((optional) *list*[ask_sdk_model.interfaces.alexapresentation.apl.animated_property.AnimatedProperty]) – An array of animated properties.

```
attribute_map = {'component_id': 'componentId', 'delay': 'delay', 'description': 'd
deserialized_types = {'component_id': 'str', 'delay': 'int', 'description': 'str',
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.alexapresentation.apl.animate_item_repeat_mode module

```
class ask_sdk_model.interfaces.alexapresentation.apl.animate_item_repeat_mode.AnimateItemRepeatMode
    Bases: enum.Enum
    How repeated animations will play.
    Allowed enum values: [restart, reverse]
    restart = 'restart'
    reverse = 'reverse'
    to_dict()
        Returns the model properties as a dict
    to_str()
        Returns the string representation of the model
```

ask_sdk_model.interfaces.alexapresentation.apl.animated_opacity_property module

```
class ask_sdk_model.interfaces.alexapresentation.apl.animated_opacity_property.AnimatedOpacityProperty
    Bases: ask_sdk_model.interfaces.alexapresentation.apl.animated_property.AnimatedProperty
    Parameters
        • object_from((optional) float) – The starting value of the property.
        • to((optional) float) – The ending value of the property.
    attribute_map = {'object_from': 'from', 'object_property': 'property', 'to': 'to'}
    deserialized_types = {'object_from': 'float', 'object_property': 'str', 'to': 'float'}
    supports_multiple_types = False
    to_dict()
        Returns the model properties as a dict
    to_str()
        Returns the string representation of the model
```

ask_sdk_model.interfaces.alexa.presentation.apl.animated_property module

class ask_sdk_model.interfaces.alexa.presentation.apl.animated_property.**AnimatedProperty** (*object*)

Bases: `object`

Parameters `object_property` (*optional*) `str` – The name of the property to animate

Note: This is an abstract class. Use the following mapping, to figure out the model class to be instantiated, that sets property variable.

`opacity:` `ask_sdk_model.interfaces.alexa.presentation.apl.animated_opacity_property.AnimatedOpacityProperty`,

`transform:` `ask_sdk_model.interfaces.alexa.presentation.apl.animated_transform_property.AnimatedTransformProperty`

```

attribute_map = {'object_property': 'property'}
deserialized_types = {'object_property': 'str'}
discriminator_value_class_map = {'opacity': 'ask_sdk_model.interfaces.alexa.presentation.apl.animated_opacity_property.AnimatedOpacityProperty', 'transform': 'ask_sdk_model.interfaces.alexa.presentation.apl.animated_transform_property.AnimatedTransformProperty'}
classmethod get_real_child_model(data)
    Returns the real base class specified by the discriminator
json_discriminator_key = 'property'
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.interfaces.alexa.presentation.apl.animated_transform_property module

class ask_sdk_model.interfaces.alexa.presentation.apl.animated_transform_property.**AnimatedTransformProperty** (*object*)

Bases: `ask_sdk_model.interfaces.alexa.presentation.apl.animated_property.AnimatedProperty`

Parameters

- **object_from** (*optional*) `list[ask_sdk_model.interfaces.alexa.presentation.apl.transform_property.TransformProperty]` – The starting value of the property.
- **to** (*optional*) `list[ask_sdk_model.interfaces.alexa.presentation.apl.transform_property.TransformProperty]` – The ending value of the property.

```

attribute_map = {'object_from': 'from', 'object_property': 'property', 'to': 'to'}
deserialized_types = {'object_from': 'list[ask_sdk_model.interfaces.alexa.presentation.apl.transform_property.TransformProperty]', 'object_property': 'property', 'to': 'list[ask_sdk_model.interfaces.alexa.presentation.apl.transform_property.TransformProperty]'}
    
```

```

supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

`ask_sdk_model.interfaces.alexa.presentation.apl.audio_track` module

```

class ask_sdk_model.interfaces.alexa.presentation.apl.audio_track.AudioTrack
    Bases: enum.Enum

    The audio track to play on. Defaults to “foreground”
    Allowed enum values: [foreground]

    foreground = 'foreground'

to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

`ask_sdk_model.interfaces.alexa.presentation.apl.auto_page_command` module

```

class ask_sdk_model.interfaces.alexa.presentation.apl.auto_page_command.AutoPageCommand (de-  
de-  
scri-  
tion-  
when-  
com-  
po-  
nen-  
cou-  
du-  
ra-  
tion)

```

Bases: `ask_sdk_model.interfaces.alexa.presentation.apl.command.Command`

Automatically progress through a series of pages displayed in a Pager component. The AutoPage command finishes after the last page has been displayed for the requested time period.

Parameters

- **delay** (*optional int*) – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** (*optional str*) – A user-provided description of this command.
- **when** (*optional bool*) – If false, the execution of the command is skipped. Defaults to true.
- **component_id** (*optional str*) – The id of the Pager component.
- **count** (*optional int*) – Number of pages to display. Defaults to all of them.
- **duration** (*optional int*) – Time to wait between pages (in milliseconds). Defaults to 0.

```

attribute_map = {'component_id': 'componentId', 'count': 'count', 'delay': 'delay',
deserialized_types = {'component_id': 'str', 'count': 'int', 'delay': 'int', 'descr
supports_multiple_types = False
to_dict ()
    Returns the model properties as a dict
to_str ()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.alexa.presentation.apl.clear_focus_command module

```
class ask_sdk_model.interfaces.alexa.presentation.apl.clear_focus_command.ClearFocusCommand
```

Bases: `ask_sdk_model.interfaces.alexa.presentation.apl.command.Command`

Removes focus from the component that is currently in focus.

Parameters

- **delay** (*optional* `int`) – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** (*optional* `str`) – A user-provided description of this command.
- **when** (*optional* `bool`) – If false, the execution of the command is skipped. Defaults to true.

```

attribute_map = {'delay': 'delay', 'description': 'description', 'object_type': 'ty
deserialized_types = {'delay': 'int', 'description': 'str', 'object_type': 'str', '
supports_multiple_types = False
to_dict ()
    Returns the model properties as a dict
to_str ()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.alexa.presentation.apl.command module

```
class ask_sdk_model.interfaces.alexa.presentation.apl.command.Command(object_type=None,
de-
lay=None,
de-
scrip-
tion=None,
when=None)
```

Bases: `object`

A message that can change the visual or audio presentation of the content on the screen.

Parameters

- **object_type** (*optional* *str*) – Defines the command type and dictates which properties must/can be included.
- **delay** (*optional* *int*) – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** (*optional* *str*) – A user-provided description of this command.
- **when** (*optional* *bool*) – If false, the execution of the command is skipped. Defaults to true.

Note: This is an abstract class. Use the following mapping, to figure out the model class to be instantiated, that sets type variable.

SetPage: `ask_sdk_model.interfaces.alexa.presentation.apl.set_page_command.SetPageCommand,`

ControlMedia: `ask_sdk_model.interfaces.alexa.presentation.apl.control_media_command.ControlMediaCommand,`

AutoPage: `ask_sdk_model.interfaces.alexa.presentation.apl.auto_page_command.AutoPageCommand,`

PlayMedia: `ask_sdk_model.interfaces.alexa.presentation.apl.play_media_command.PlayMediaCommand,`

Scroll: `ask_sdk_model.interfaces.alexa.presentation.apl.scroll_command.ScrollCommand,`

Idle:
`ask_sdk_model.interfaces.alexa.presentation.apl.idle_command.IdleCommand,`

AnimateItem: `ask_sdk_model.interfaces.alexa.presentation.apl.animate_item_command.AnimateItemCommand,`

SendEvent: `ask_sdk_model.interfaces.alexa.presentation.apl.send_event_command.SendEventCommand,`

SpeakList: `ask_sdk_model.interfaces.alexa.presentation.apl.speak_list_command.SpeakListCommand,`

Sequential: `ask_sdk_model.interfaces.alexa.presentation.apl.sequential_command.SequentialCommand,`

SetState: `ask_sdk_model.interfaces.alexa.presentation.apl.set_state_command.SetStateCommand,`

SpeakItem: `ask_sdk_model.interfaces.alexa.presentation.apl.speak_item_command.SpeakItemCommand,`

Parallel: `ask_sdk_model.interfaces.alexa.presentation.apl.parallel_command.ParallelCommand`,

OpenURL: `ask_sdk_model.interfaces.alexa.presentation.apl.open_url_command.OpenUrlCommand`,

ClearFocus: `ask_sdk_model.interfaces.alexa.presentation.apl.clear_focus_command.ClearFocusCommand`,

ScrollToIndex: `ask_sdk_model.interfaces.alexa.presentation.apl.scroll_to_index_command.ScrollToIndexCommand`,

SetValue: `ask_sdk_model.interfaces.alexa.presentation.apl.set_value_command.SetValueCommand`,

SetFocus: `ask_sdk_model.interfaces.alexa.presentation.apl.set_focus_command.SetFocusCommand`

`attribute_map = {'delay': 'delay', 'description': 'description', 'object_type': 'type'}`

`deserialized_types = {'delay': 'int', 'description': 'str', 'object_type': 'str', 'value': 'str'}`

`discriminator_value_class_map = {'AnimateItem': 'ask_sdk_model.interfaces.alexa.presentation.apl.animate_item_command.AnimateItemCommand'}`

`classmethod get_real_child_model(data)`

Returns the real base class specified by the discriminator

`json_discriminator_key = 'type'`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

ask_sdk_model.interfaces.alexa.presentation.apl.component_entity module

`class ask_sdk_model.interfaces.alexa.presentation.apl.component_entity.ComponentEntity(object)` *(object, value, id=N)*

Bases: `object`

The entity context data which was attached to an element.

Parameters

- `object_type` ((optional) `str`)–
- `value` ((optional) `str`)–
- `id` ((optional) `str`)–

`attribute_map = {'id': 'id', 'object_type': 'type', 'value': 'value'}`

`deserialized_types = {'id': 'str', 'object_type': 'str', 'value': 'str'}`

```

supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.interfaces.alexa.presentation.apl.component_state module

```

class ask_sdk_model.interfaces.alexa.presentation.apl.component_state.ComponentState
    Bases: enum.Enum

    Component state.

    Allowed enum values: [checked, disabled, focused]

    checked = 'checked'
    disabled = 'disabled'
    focused = 'focused'

    to_dict()
        Returns the model properties as a dict
    to_str()
        Returns the string representation of the model
    
```

ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen module

```

class ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen.Component
    
```

Bases: `object`

Definition of a visible APL element shown on screen.

Parameters

- **children** *((optional) list[ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen.ComponentVisibleOnScreen])* – All child elements of the displayed element.

- **entities** ((*optional*) *list*[ask_sdk_model.interfaces.alexa.presentation.apl.component_entity.ComponentEntity]) – The entities which were attached to the element.
- **id**((*optional*) *str*) – The id of the element.
- **position**((*optional*) *str*) – Global position of the element (as seen by the device user).
- **tags** ((*optional*) ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_tags.ComponentVisibleOnScreenTags) – The tags which were attached to the element.
- **transform**((*optional*) *list*[*float*]) – The transform which was applied to the element’s position, specified as a 6-element numeric array containing the 2D homogeneous transformation matrix. The center of the transformation coordinate system is the center of the component. The transformation array is ordered as [A,B,C,D,Tx,Ty]. For more information refer to the W3C’s CSS transforms documentation.
- **object_type**((*optional*) *str*) – The visual appearance of the element.
- **uid**((*optional*) *str*) – The system-generated uid of the element.
- **visibility**((*optional*) *float*) – The relative visibility of the element. 0 = not visible, 1 = fully visible on screen.

```

attribute_map = {'children': 'children', 'entities': 'entities', 'id': 'id', 'object_type': 'object_type'}
deserialized_types = {'children': 'list[ask_sdk_model.interfaces.alexa.presentation.apl.component_entity.ComponentEntity]', 'entities': 'list[ask_sdk_model.interfaces.alexa.presentation.apl.component_entity.ComponentEntity]', 'id': 'str', 'object_type': 'str', 'position': 'str', 'transform': 'list[float]', 'uid': 'str', 'visibility': 'float'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_list_item_tag module

```

class ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_list_item_tag(object)
    Bases: object
    
```

An element in a scrolling list

Parameters **index**((*optional*) *int*) – The zero-based index of this item in its parent.

```

attribute_map = {'index': 'index'}
deserialized_types = {'index': 'int'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_list_tag module

```
class ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_list_tag
```

Bases: `object`

An ordered list of items

Parameters

- **item_count** (*optional* `int`) – The total number of items in the list.
- **lowest_index_seen** (*optional* `int`) – The index of the lowest item seen.
- **highest_index_seen** (*optional* `int`) – The index of the highest item seen.
- **lowest_ordinal_seen** (*optional* `int`) – The ordinal of the lowest ordinal-equipped item seen.
- **highest_ordinal_seen** (*optional* `int`) – The ordinal of the highest ordinal-equipped item seen.

```
attribute_map = {'highest_index_seen': 'highestIndexSeen', 'highest_ordinal_seen': 'highestOrdinalSeen'}
```

```
deserialized_types = {'highest_index_seen': 'int', 'highest_ordinal_seen': 'int', 'item_count': 'int'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_media_tag module

```
class ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_media_tag
```

Bases: `object`

Media player

Parameters

- **position_in_milliseconds** ((*optional*) *int*) – Current position of the play head from the start of the track.
- **state** ((*optional*) `ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_media_tag_state_enum.ComponentVisibleOnScreenMediaTagStateEnum`) –
- **allow_adjust_seek_position_forward** ((*optional*) *bool*) – Whether the user may seek forward relative to the current position.
- **allow_adjust_seek_position_backwards** ((*optional*) *bool*) – Whether the user may seek backwards relative to the current position.
- **allow_next** ((*optional*) *bool*) – Whether the user may move forward to the next track.
- **allow_previous** ((*optional*) *bool*) – Whether the user may move backward to the previous track.
- **entities** ((*optional*) `list[ask_sdk_model.interfaces.alexa.presentation.apl.component_entity.ComponentEntity]`) –
- **url** ((*optional*) *str*) – The URL of the current media track.

`attribute_map = {'allow_adjust_seek_position_backwards': 'allowAdjustSeekPositionBackwards'}`

`deserialized_types = {'allow_adjust_seek_position_backwards': 'bool', 'allow_adjust_seek_position_forward': 'bool'}`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_media_tag_state_enum module

class `ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_media_tag_state_enum`

Bases: `enum.Enum`

Media player stage possible states

Allowed enum values: [idle, playing, paused]

`idle = 'idle'`

`paused = 'paused'`

`playing = 'playing'`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_pager_tag module**class** ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_pager_tagBases: `object`

A collection of items that are displayed one at a time.

Parameters

- **index** (*optional*) `int` – The index of the current page.
- **page_count** (*optional*) `int` – The total number of pages.
- **allow_forward** (*optional*) `bool` – Indicates whether the pager will accept a forward command.
- **allow_backwards** (*optional*) `bool` – Indicates whether the pager will accept a backward command.

attribute_map = {'allow_backwards': 'allowBackwards', 'allow_forward': 'allowForward'}**deserialized_types** = {'allow_backwards': 'bool', 'allow_forward': 'bool', 'index':**supports_multiple_types** = `False`**to_dict** ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_scrollable_tag module**class** ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_scrollable_tagBases: `object`

A scrollable region.

Parameters

- **direction** (*optional*) `ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_scrollable_tag_direction_enum.ComponentVisibleOnScreenScrollableTagDirectionEnum` –
- **allow_forward** (*optional*) `bool` – Whether scrolling forward is accepted.
- **allow_backward** (*optional*) `bool` – Whether scrolling backward is accepted.

attribute_map = {'allow_backward': 'allowBackward', 'allow_forward': 'allowForward',**deserialized_types** = {'allow_backward': 'bool', 'allow_forward': 'bool', 'direction':

```
supports_multiple_types = False

to_dict ()
    Returns the model properties as a dict

to_str ()
    Returns the string representation of the model
```

`ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_scrollable_tag_direction_enum` module

```
class ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_scrollable_tag_direction_enum
    Bases: enum.Enum

    Scrolling direction

    Allowed enum values: [horizontal, vertical]

    horizontal = 'horizontal'

    to_dict ()
        Returns the model properties as a dict

    to_str ()
        Returns the string representation of the model

    vertical = 'vertical'
```

`ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_tags` module

```
class ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_tags.ComponentVisibleOnScreenTags
```

Bases: `object`

The tags which were attached to an element.

Parameters

- **checked** (*optional*) `bool` – The checked state of a component that has two states.

- **clickable** ((*optional*) *bool*) – A button or item that can be pressed.
- **disabled** ((*optional*) *bool*) – Whether the element is disabled.
- **focused** ((*optional*) *bool*) – The focused state of a component that can take focus.
- **list** ((*optional*) `ask_sdk_model.interfaces.alexapresentation.apl.component_visible_on_screen_list_tag.ComponentVisibleOnScreenListTag`) – An ordered list of items.
- **list_item** ((*optional*) `ask_sdk_model.interfaces.alexapresentation.apl.component_visible_on_screen_list_item_tag.ComponentVisibleOnScreenListItemTag`) – An element in a sequence.
- **media** ((*optional*) `ask_sdk_model.interfaces.alexapresentation.apl.component_visible_on_screen_media_tag.ComponentVisibleOnScreenMediaTag`) – Media player
- **ordinal** ((*optional*) *int*) – A visibly numbered element.
- **pager** ((*optional*) `ask_sdk_model.interfaces.alexapresentation.apl.component_visible_on_screen_pager_tag.ComponentVisibleOnScreenPagerTag`) – A collection of items that are displayed one at a time.
- **scrollable** ((*optional*) `ask_sdk_model.interfaces.alexapresentation.apl.component_visible_on_screen_scrollable_tag.ComponentVisibleOnScreenScrollableTag`) – A scrolling region
- **spoken** ((*optional*) *bool*) – A region of the screen that can be read out by TTS
- **viewport** ((*optional*) `ask_sdk_model.interfaces.alexapresentation.apl.component_visible_on_screen_viewport_tag.ComponentVisibleOnScreenViewportTag`) – The entire screen in which a document is rendered.

```

attribute_map = {'checked': 'checked', 'clickable': 'clickable', 'disabled': 'disab
deserialized_types = {'checked': 'bool', 'clickable': 'bool', 'disabled': 'bool', '
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

`ask_sdk_model.interfaces.alexapresentation.apl.component_visible_on_screen_viewport_tag` module

```

class ask_sdk_model.interfaces.alexapresentation.apl.component_visible_on_screen_viewport
    Bases: object
    The entire screen in which a document is rendered.
    attribute_map = {}
    deserialized_types = {}
    supports_multiple_types = False

```

```

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

`ask_sdk_model.interfaces.alexa.presentation.apl.control_media_command` module

```
class ask_sdk_model.interfaces.alexa.presentation.apl.control_media_command.ControlMediaCom
```

Bases: `ask_sdk_model.interfaces.alexa.presentation.apl.command.Command`

Control a media player to play, pause, change tracks, or perform some other common action.

Parameters

- **delay** (*optional* `int`) – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** (*optional* `str`) – A user-provided description of this command.
- **when** (*optional* `bool`) – If false, the execution of the command is skipped. Defaults to true.
- **command** (*optional* `ask_sdk_model.interfaces.alexa.presentation.apl.media_command_type.MediaCommandType`) – The command to issue on the media player
- **component_id** (*optional* `str`) – The name of the media playing component
- **value** (*optional* `int`) – Optional data value

```

attribute_map = {'command': 'command', 'component_id': 'componentId', 'delay': 'del
deserialized_types = {'command': 'ask_sdk_model.interfaces.alexa.presentation.apl.med
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

`ask_sdk_model.interfaces.alexa.presentation.apl.execute_commands_directive` module

```
class ask_sdk_model.interfaces.alexa.presentation.apl.execute_commands_directive.ExecuteCom
```

Bases: `ask_sdk_model.directive.Directive`

Alexa.Presentation.APL.ExecuteCommands directive used to send APL commands to a device.

Parameters

- **commands** ((optional) list[ask_sdk_model.interfaces.alexapresentation.apl.command.Command]) – List of Command instances
- **token** ((optional) str) – A skill defined token, unique for each presentation. Must match the token provided by the skill in the RenderDocument directive used to render the original APL document.

attribute_map = {'commands': 'commands', 'object_type': 'type', 'token': 'token'}

deserialized_types = {'commands': 'list[ask_sdk_model.interfaces.alexapresentation.apl.command.Command]'}

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.alexapresentation.apl.highlight_mode module

class ask_sdk_model.interfaces.alexapresentation.apl.highlight_mode.HighlightMode

Bases: enum.Enum

How highlighting is applied: on a line-by-line basis, or to the entire block. Defaults to block.

Allowed enum values: [block, line]

block = 'block'

line = 'line'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.alexapresentation.apl.idle_command module

class ask_sdk_model.interfaces.alexapresentation.apl.idle_command.IdleCommand (delay=None,

description=None, when=None)

Bases: ask_sdk_model.interfaces.alexapresentation.apl.command.Command

The idle command does nothing. It may be a placeholder or used to insert a calculated delay in a longer series of commands.

Parameters

- **delay** ((optional) int) – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** ((optional) str) – A user-provided description of this command.

- **when**((*optional*) *bool*) – If false, the execution of the command is skipped. Defaults to true.

```

attribute_map = {'delay': 'delay', 'description': 'description', 'object_type': 'ty
deserialized_types = {'delay': 'int', 'description': 'str', 'object_type': 'str', '
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.alexa.presentation.apl.media_command_type module

```

class ask_sdk_model.interfaces.alexa.presentation.apl.media_command_type.MediaCommandType
    Bases: enum.Enum

```

The command enumerated value is the operation that should be performed on the media player.

Allowed enum values: [play, pause, next, previous, rewind, seek, setTrack]

```

next = 'next'
pause = 'pause'
play = 'play'
previous = 'previous'
rewind = 'rewind'
seek = 'seek'
setTrack = 'setTrack'
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.alexa.presentation.apl.move_transform_property module

```

class ask_sdk_model.interfaces.alexa.presentation.apl.move_transform_property.MoveTransformProperty

```

Bases: `ask_sdk_model.interfaces.alexa.presentation.apl.transform_property.TransformProperty`

Parameters

- **translate_x**((*optional*) *str*) – Distance to translate the object to the right.
- **translate_y**((*optional*) *str*) – Distance to translate the object down.

```

attribute_map = {'translate_x': 'translateX', 'translate_y': 'translateY'}
deserialized_types = {'translate_x': 'str', 'translate_y': 'str'}
supports_multiple_types = False

```

```

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.interfaces.alexa.presentation.apl.open_url_command module

```

class ask_sdk_model.interfaces.alexa.presentation.apl.open_url_command.OpenUrlCommand(delay=
de-
scrip-
tion=N
when=
source
on_fai
    
```

Bases: `ask_sdk_model.interfaces.alexa.presentation.apl.command.Command`

Opens a url with web browser or other application on the device. The APL author is responsible for providing a suitable URL that works on the current device.

Parameters

- **delay** (*optional int*) – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** (*optional str*) – A user-provided description of this command.
- **when** (*optional bool*) – If false, the execution of the command is skipped. Defaults to true.
- **source** (*optional str*) – The URL to open
- **on_fail** (*optional list[ask_sdk_model.interfaces.alexa.presentation.apl.command.Command]*) – Commands to execute if the URL fails to open

```

attribute_map = {'delay': 'delay', 'description': 'description', 'object_type': 'ty
deserialized_types = {'delay': 'int', 'description': 'str', 'object_type': 'str', '
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.interfaces.alexa.presentation.apl.parallel_command module

```

class ask_sdk_model.interfaces.alexa.presentation.apl.parallel_command.ParallelCommand(delay=
de-
scrip-
tion=
when=
com-
man
    
```

Bases: `ask_sdk_model.interfaces.alexa.presentation.apl.command.Command`

Execute a series of commands in parallel. The parallel command starts executing all child command simultaneously. The parallel command is considered finished when all of its child commands have finished. When the parallel command is terminated early, all currently executing commands are terminated.

Parameters

- **delay** (*optional* *int*) – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** (*optional* *str*) – A user-provided description of this command.
- **when** (*optional* *bool*) – If false, the execution of the command is skipped. Defaults to true.
- **commands** (*optional* *list[ask_sdk_model.interfaces.alexa.presentation.apl.command.Command]*) – An un-ordered array of commands to execute in parallel. Once all commands have finished executing the parallel command finishes. Please note that the delay of parallel command and the delay of each command are additive.

```
attribute_map = {'commands': 'commands', 'delay': 'delay', 'description': 'descript
```

```
deserialized_types = {'commands': 'list[ask_sdk_model.interfaces.alexa.presentation.ap
```

```
supports_multiple_types = False
```

```
to_dict()
```

```
    Returns the model properties as a dict
```

```
to_str()
```

```
    Returns the string representation of the model
```

`ask_sdk_model.interfaces.alexa.presentation.apl.play_media_command` module

```
class ask_sdk_model.interfaces.alexa.presentation.apl.play_media_command.PlayMediaCommand(Command)
```

Bases: `ask_sdk_model.interfaces.alexa.presentation.apl.command.Command`

Plays media on a media player (currently only a Video player; audio may be added in the future). The media may be on the background audio track or may be sequenced with speak directives).

Parameters

- **delay** (*optional* *int*) – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** (*optional* *str*) – A user-provided description of this command.
- **when** (*optional* *bool*) – If false, the execution of the command is skipped. Defaults to true.

- **audio_track** ((*optional*) `ask_sdk_model.interfaces.alexapresentation.apl.audio_track.AudioTrack`) – The command to issue on the media player
- **component_id** ((*optional*) `str`) – The name of the media playing component
- **source** ((*optional*) `list[ask_sdk_model.interfaces.alexapresentation.apl.video_source.VideoSource]`) – The media source

```
attribute_map = {'audio_track': 'audioTrack', 'component_id': 'componentId', 'delay'
deserialized_types = {'audio_track': 'ask_sdk_model.interfaces.alexapresentation.apl
supports_multiple_types = False
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.alexapresentation.apl.position module

```
class ask_sdk_model.interfaces.alexapresentation.apl.position.Position
```

Bases: `enum.Enum`

Whether the value is a relative or absolute offset. Defaults to absolute.

Allowed enum values: [absolute, relative]

```
absolute = 'absolute'
```

```
relative = 'relative'
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.alexapresentation.apl.render_document_directive module

```
class ask_sdk_model.interfaces.alexapresentation.apl.render_document_directive.RenderDocu
```

Bases: `ask_sdk_model.directive.Directive`

Parameters

- **token** ((*optional*) `str`) – A unique identifier for the presentation.
- **document** ((*optional*) `dict(str, object)`) – Depending on the document type, it represents either an entire APL document or a reference Link to the document. In a Link object, the value of the 'src' should follow a URI format defined like

'doc://alexa/apl/documents/<document_id>'. The 'document_id' is a reference to the APL document that the developer stores through APL Authoring Tool.

- **datasources** (*optional*) *dict*(*str*, *object*) – Data sources to bind to the document when rendering.
- **packages** (*optional*) *list*[*object*] – A list of packages including layouts, styles, and images etc.

```
attribute_map = {'datasources': 'datasources', 'document': 'document', 'object_type':
deserialized_types = {'datasources': 'dict(str, object)', 'document': 'dict(str, obj
supports_multiple_types = False
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.alexa.presentation.apl.rendered_document_state module

```
class ask_sdk_model.interfaces.alexa.presentation.apl.rendered_document_state.RenderedDocu
```

Bases: `object`

Provides context for any APL content shown on screen.

Parameters

- **token** (*optional*) *str* – The token specified in the RenderDocument directive which rendered the content shown on screen.
- **version** (*optional*) *str* – The APL version of the document which rendered the content shown on screen.
- **components_visible_on_screen** (*optional*) *list*[`ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen.ComponentVisibleOnScreen`] – List of the visible APL components currently shown on screen.

```
attribute_map = {'components_visible_on_screen': 'componentsVisibleOnScreen', 'token':
deserialized_types = {'components_visible_on_screen': 'list[ask_sdk_model.interfaces.
supports_multiple_types = False
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```


ask_sdk_model.interfaces.alexa.presentation.apl.rotate_transform_property module

class ask_sdk_model.interfaces.alexa.presentation.apl.rotate_transform_property.**RotateTransformProperty**

Bases: `ask_sdk_model.interfaces.alexa.presentation.apl.transform_property.TransformProperty`

Parameters `rotate` (*float*) – Rotation angle, in degrees. Positive angles rotate in the clockwise direction.

`attribute_map = {'rotate': 'rotate'}`

`deserialized_types = {'rotate': 'float'}`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

ask_sdk_model.interfaces.alexa.presentation.apl.runtime module

class ask_sdk_model.interfaces.alexa.presentation.apl.runtime.**Runtime** (*max_version=None*)

Bases: `object`

Contains the runtime information for the interface.

Parameters `max_version` (*optional str*) – Maximum APL version supported by the runtime.

`attribute_map = {'max_version': 'maxVersion'}`

`deserialized_types = {'max_version': 'str'}`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

ask_sdk_model.interfaces.alexa.presentation.apl.scale_transform_property module

class ask_sdk_model.interfaces.alexa.presentation.apl.scale_transform_property.**ScaleTransformProperty**

Bases: `ask_sdk_model.interfaces.alexa.presentation.apl.transform_property.TransformProperty`

Parameters

- `scale` (*float*) – Uniform scaling in both X and Y.
- `scale_x` (*float*) – Scaling in the X direction (overrides “scale” if in same group).
- `scale_y` (*float*) – Scaling in the Y direction (overrides “scale” if in same group).

`attribute_map = {'scale': 'scale', 'scale_x': 'scaleX', 'scale_y': 'scaleY'}`

```

deserialized_types = {'scale': 'float', 'scale_x': 'float', 'scale_y': 'float'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.alexa.presentation.apl.scroll_command module

```

class ask_sdk_model.interfaces.alexa.presentation.apl.scroll_command.ScrollCommand(delay=None, de-
scrip-
tion=None,
when=None,
dis-
tance=None,
com-
po-
nent_id=None)

```

Bases: `ask_sdk_model.interfaces.alexa.presentation.apl.command.Command`

Scroll a ScrollView or Sequence forward or backward by a number of pages. The Scroll command has the following properties in addition to the regular command properties.

Parameters

- **delay** (*optional int*) – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** (*optional str*) – A user-provided description of this command.
- **when** (*optional bool*) – If false, the execution of the command is skipped. Defaults to true.
- **distance** (*optional int*) – The number of pages to scroll. Defaults to 1.
- **component_id** (*optional str*) – The id of the component.

```

attribute_map = {'component_id': 'componentId', 'delay': 'delay', 'description': 'd
deserialized_types = {'component_id': 'str', 'delay': 'int', 'description': 'str',
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.alexa.presentation.apl.scroll_to_index_command module

```
class ask_sdk_model.interfaces.alexa.presentation.apl.scroll_to_index_command.ScrollToIndex
```

Bases: `ask_sdk_model.interfaces.alexa.presentation.apl.command.Command`

Scroll forward or backward through a ScrollView or Sequence to ensure that a particular child component is in view.

Parameters

- **delay** (*optional*) `int` – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** (*optional*) `str` – A user-provided description of this command.
- **when** (*optional*) `bool` – If false, the execution of the command is skipped. Defaults to true.
- **align** (*optional*) `ask_sdk_model.interfaces.alexa.presentation.apl.align.Align` –
- **component_id** (*optional*) `str` – The id of the component.
- **index** (*optional*) `int` – The 0-based index of the child to display.

```
attribute_map = {'align': 'align', 'component_id': 'componentId', 'delay': 'delay',
```

```
deserialized_types = {'align': 'ask_sdk_model.interfaces.alexa.presentation.apl.align
```

```
supports_multiple_types = False
```

```
to_dict()
```

```
    Returns the model properties as a dict
```

```
to_str()
```

```
    Returns the string representation of the model
```

ask_sdk_model.interfaces.alexa.presentation.apl.send_event_command module

class ask_sdk_model.interfaces.alexa.presentation.apl.send_event_command.**SendEventCommand** (*...*)

Bases: *ask_sdk_model.interfaces.alexa.presentation.apl.command.Command*

The SendEvent command allows the APL author to generate and send an event to Alexa.

Parameters

- **delay** (*optional*) *int* – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** (*optional*) *str* – A user-provided description of this command.
- **when** (*optional*) *bool* – If false, the execution of the command is skipped. Defaults to true.
- **arguments** (*optional*) *list[str]* – An array of argument data to pass to Alexa.
- **components** (*optional*) *list[str]* – An array of components to extract value data from and provide to Alexa.

attribute_map = {'arguments': 'arguments', 'components': 'components', 'delay': 'de

deserialized_types = {'arguments': 'list[str]', 'components': 'list[str]', 'delay':

supports_multiple_types = **False**

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.interfaces.alexa.presentation.apl.sequential_command module

class ask_sdk_model.interfaces.alexa.presentation.apl.sequential_command.**SequentialCommand** (*...*)

Bases: *ask_sdk_model.interfaces.alexa.presentation.apl.command.Command*

A sequential command executes a series of commands in order. The sequential command executes the command list in order, waiting for the previous command to finish before executing the next. The sequential command is finished when all of its child commands have finished. When the Sequential command is terminated early, the currently executing command is terminated and no further commands are executed.

Parameters

- **delay** (*optional* *int*) – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** (*optional* *str*) – A user-provided description of this command.
- **when** (*optional* *bool*) – If false, the execution of the command is skipped. Defaults to true.
- **catch** (*optional* *list*[*ask_sdk_model.interfaces.alexapresentation.apl.command.Command*]) – An ordered list of commands to execute if this sequence is prematurely terminated.
- **commands** (*optional* *list*[*ask_sdk_model.interfaces.alexapresentation.apl.command.Command*]) – An array of commands to execute. The commands execute in order; each command must finish before the next can begin. Please note that the delay of sequential command and the delay of the first command in the sequence are additive.
- **object_finally** (*optional* *list*[*ask_sdk_model.interfaces.alexapresentation.apl.command.Command*]) – An ordered list of commands to execute after the normal commands and the catch commands.
- **repeat_count** (*optional* *int*) – The number of times to repeat this series of commands. Defaults to 0. Negative values will be ignored. Note that the delay assigned to overall sequential command only applies the first time. For example, in the sample sequential command below the first SendEvent fires at 3000 milliseconds, the second at 5000, the first SendEvent fires again at 7000 milliseconds, and so forth.

```
{&quot;type&quot;: &quot;Sequential&quot;,&quot;delay&quot;: 1000,&quot;repeatCount&quot;: 2,&quot;commands&quot;: [{ &quot;type&quot;: &quot;SendEvent&quot;,&quot;delay&quot;: 2000},{&quot;type&quot;: &quot;SendEvent&quot;,&quot;delay&quot;: 2000}]}
```

```
attribute_map = {'catch': 'catch', 'commands': 'commands', 'delay': 'delay', 'descr
```

```
deserialized_types = {'catch': 'list[ask_sdk_model.interfaces.alexapresentation.apl.
```

```
supports_multiple_types = False
```

```
to_dict()
```

```
Returns the model properties as a dict
```

```
to_str()
```

```
Returns the string representation of the model
```

ask_sdk_model.interfaces.alexa.presentation.apl.set_focus_command module

```
class ask_sdk_model.interfaces.alexa.presentation.apl.set_focus_command.SetFocusCommand (delay=
de-
scri-
tion=
when=
com-
po-
nen-
```

Bases: `ask_sdk_model.interfaces.alexa.presentation.apl.command.Command`

Changes the actionable component that is in focus. Only one component may have focus at a time.

Parameters

- **delay** (*optional*) `int` – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** (*optional*) `str` – A user-provided description of this command.
- **when** (*optional*) `bool` – If false, the execution of the command is skipped. Defaults to true.
- **component_id** (*optional*) `str` – The ID of the component to set focus on.

```
attribute_map = {'component_id': 'componentId', 'delay': 'delay', 'description': 'd
```

```
deserialized_types = {'component_id': 'str', 'delay': 'int', 'description': 'str',
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_sdk_model.interfaces.alexa.presentation.apl.set_page_command module

```
class ask_sdk_model.interfaces.alexa.presentation.apl.set_page_command.SetPageCommand (delay=
de-
scrip-
tion=N
when=
com-
po-
nent_i
po-
si-
tion=N
value=
```

Bases: `ask_sdk_model.interfaces.alexa.presentation.apl.command.Command`

Change the page displayed in a Pager component. The SetPage command finishes when the item is fully in view.

Parameters

- **delay** (*optional*) `int` – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.

- **description** (*optional* *str*) – A user-provided description of this command.
- **when** (*optional* *bool*) – If false, the execution of the command is skipped. Defaults to true.
- **component_id** (*optional* *str*) – The id of the Pager component.
- **position** (*optional* `ask_sdk_model.interfaces.alexapresentation.apl.position.Position`) –
- **value** (*optional* *int*) – The distance to move. May be an absolute value or a relative value.

```
attribute_map = {'component_id': 'componentId', 'delay': 'delay', 'description': 'description', 'when': 'when', 'component_id': 'componentId', 'position': 'position', 'value': 'value'}
deserialized_types = {'component_id': 'str', 'delay': 'int', 'description': 'str', 'when': 'bool', 'component_id': 'str', 'position': 'Position', 'value': 'int'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

`ask_sdk_model.interfaces.alexapresentation.apl.set_state_command` module

```
class ask_sdk_model.interfaces.alexapresentation.apl.set_state_command.SetStateCommand(delay, description, when, component_id, position, value)
```

Bases: `ask_sdk_model.interfaces.alexapresentation.apl.command.Command`

The SetState command changes one of the component’s state settings. The SetState command can be used to change the checked, disabled, and focused states. The karaoke and pressed states may not be directly set; use the Select command or SpeakItem commands to change those states. Also, note that the focused state may only be set - it can’t be cleared.

Parameters

- **delay** (*optional* *int*) – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** (*optional* *str*) – A user-provided description of this command.
- **when** (*optional* *bool*) – If false, the execution of the command is skipped. Defaults to true.
- **component_id** (*optional* *str*) – The id of the component whose value should be set.
- **state** (*optional* `ask_sdk_model.interfaces.alexapresentation.apl.component_state.ComponentState`) – The name of the state to set. Must be one of “checked”, “disabled”, and “focused”.
- **value** (*optional* *bool*) – The value to set on the property

```

attribute_map = {'component_id': 'componentId', 'delay': 'delay', 'description': 'd
deserialized_types = {'component_id': 'str', 'delay': 'int', 'description': 'str',
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.alexa.presentation.apl.set_value_command module

```

class ask_sdk_model.interfaces.alexa.presentation.apl.set_value_command.SetValueCommand (del

```

de-
scri-
tion
when
com-
po-
nen-
ob-
ject
val-

Bases: `ask_sdk_model.interfaces.alexa.presentation.apl.command.Command`

Change a dynamic property of a component without redrawing the screen.

Parameters

- **delay** (*optional* `int`) – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** (*optional* `str`) – A user-provided description of this command.
- **when** (*optional* `bool`) – If false, the execution of the command is skipped. Defaults to true.
- **component_id** (*optional* `str`) – The id of the component whose value to set.
- **object_property** (*optional* `str`) – The name of the property to set.
- **value** (*optional* `str`) – The property value to set.

```

attribute_map = {'component_id': 'componentId', 'delay': 'delay', 'description': 'd
deserialized_types = {'component_id': 'str', 'delay': 'int', 'description': 'str',
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```


ask_sdk_model.interfaces.alexa.presentation.apl.skew_transform_property module

```
class ask_sdk_model.interfaces.alexa.presentation.apl.skew_transform_property.SkewTransformProperty
```

Bases: `ask_sdk_model.interfaces.alexa.presentation.apl.transform_property.TransformProperty`

Parameters

- **skew_x** (*float*) – Skew angle for the X-axis, in degrees. X-axis lines remain horizontal.
- **skew_y** (*float*) – Skew angle for the Y-axis, in degrees. Y-axis lines remain vertical.

```
attribute_map = {'skew_x': 'skewX', 'skew_y': 'skewY'}
```

```
deserialized_types = {'skew_x': 'float', 'skew_y': 'float'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_sdk_model.interfaces.alexa.presentation.apl.speak_item_command module

```
class ask_sdk_model.interfaces.alexa.presentation.apl.speak_item_command.SpeakItemCommand
```

Bases: `ask_sdk_model.interfaces.alexa.presentation.apl.command.Command`

Reads the contents of a single item on the screen. By default the item will be scrolled into view if it is not currently visible.

Parameters

- **delay** (*optional int*) – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** (*optional str*) – A user-provided description of this command.
- **when** (*optional bool*) – If false, the execution of the command is skipped. Defaults to true.
- **align** (*optional ask_sdk_model.interfaces.alexa.presentation.apl.align.Align*) –
- **component_id** (*optional str*) – The id of the component to speak.

- **highlight_mode** ((*optional*) `ask_sdk_model.interfaces.alexapresentation.apl.highlight_mode.HighlightMode`)–
- **minimum_dwell_time** ((*optional*) `int`)– The minimum number of milliseconds that an item should be highlighted for. Defaults to 0.

`attribute_map = {'align': 'align', 'component_id': 'componentId', 'delay': 'delay',`

`deserialized_types = {'align': 'ask_sdk_model.interfaces.alexapresentation.apl.align`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

`ask_sdk_model.interfaces.alexapresentation.apl.speak_list_command` module

`class ask_sdk_model.interfaces.alexapresentation.apl.speak_list_command.SpeakListCommand(ask_sdk_model.interfaces.alexapresentation.apl.command.Command)`

Bases: `ask_sdk_model.interfaces.alexapresentation.apl.command.Command`

Read the contents of a range of items inside a common container. Each item will scroll into view before speech. Each item should have a `speech` property, but it is not required.

Parameters

- **delay** ((*optional*) `int`)– The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** ((*optional*) `str`)– A user-provided description of this command.
- **when** ((*optional*) `bool`)– If false, the execution of the command is skipped. Defaults to true.
- **align** ((*optional*) `ask_sdk_model.interfaces.alexapresentation.apl.align.Align`)–
- **component_id** ((*optional*) `str`)– The id of the component to read.
- **count** ((*optional*) `int`)– The number of items to speak
- **minimum_dwell_time** ((*optional*) `int`)– The minimum number of milliseconds that an item will be highlighted for. Defaults to 0.
- **start** ((*optional*) `int`)– The 0-based index of the first item to speak

`attribute_map = {'align': 'align', 'component_id': 'componentId', 'count': 'count',`

```

deserialized_types = {'align': 'ask_sdk_model.interfaces.alexa.presentation.apl.align'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.alexa.presentation.apl.transform_property module

```

class ask_sdk_model.interfaces.alexa.presentation.apl.transform_property.TransformProperty
    Bases: object

    Transform property to apply to a component.

    attribute_map = {}

    deserialized_types = {}

    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model

```

ask_sdk_model.interfaces.alexa.presentation.apl.user_event module

```

class ask_sdk_model.interfaces.alexa.presentation.apl.user_event.UserEvent (request_id=None,
                                     timestamp=None,
                                     locale=None,
                                     token=None,
                                     arguments=None,
                                     source=None,
                                     components=None)

    Bases: ask_sdk_model.request.Request

```

Parameters

- **request_id** ((optional) str) – Represents the unique identifier for the specific request.
- **timestamp** ((optional) datetime) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** ((optional) str) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.

- **token** (*optional* *str*) – A unique token for the active presentation.
- **arguments** (*optional* *list[object]*) – The array of argument data to pass to Alexa.
- **source** (*optional* *object*) – Meta-information about what caused the event to be generated.
- **components** (*optional* *object*) – Components associated with the request.

```
attribute_map = {'arguments': 'arguments', 'components': 'components', 'locale': 'l
```

```
deserialized_types = {'arguments': 'list[object]', 'components': 'object', 'locale':
```

```
supports_multiple_types = False
```

```
to_dict()
```

```
    Returns the model properties as a dict
```

```
to_str()
```

```
    Returns the string representation of the model
```

ask_sdk_model.interfaces.alexa.presentation.apl.video_source module

```
class ask_sdk_model.interfaces.alexa.presentation.apl.video_source.VideoSource (description=None,
                                         duration=None,
                                         url=None,
                                         repeat_count=None,
                                         offset=None)
```

Bases: `object`

The source property holds the video clip or sequence of video clips to play.

Parameters

- **description** (*optional* *str*) – Optional description of this source material
- **duration** (*optional* *int*) – Duration of time to play. If not set, defaults to the entire stream. Expressed in milliseconds.
- **url** (*optional* *str*) – Media source material
- **repeat_count** (*optional* *int*) – Number of times to loop the video. Defaults to 0.
- **offset** (*optional* *int*) – Offset to start playing at in the stream (defaults to 0).

```
attribute_map = {'description': 'description', 'duration': 'duration', 'offset': 'o
```

```
deserialized_types = {'description': 'str', 'duration': 'int', 'offset': 'int', 're
```

```
supports_multiple_types = False
```

```
to_dict()
```

```
    Returns the model properties as a dict
```

```
to_str()
```

```
    Returns the string representation of the model
```

ask_sdk_model.interfaces.alexa.presentation.aplt package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.interfaces.alexa.presentation.aplt.alexa_presentation_aplt_interface module

class `ask_sdk_model.interfaces.alexa.presentation.aplt.alexa_presentation_aplt_interface.AlexaPresentationAplTInterface`

Bases: `object`

Parameters `runtime` ((optional) `ask_sdk_model.interfaces.alexa.presentation.aplt.runtime.Runtime`)–

attribute_map = {'runtime': 'runtime'}

deserialized_types = {'runtime': 'ask_sdk_model.interfaces.alexa.presentation.aplt.runtime.Runtime'}

supports_multiple_types = `False`

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.alexa.presentation.aplt.auto_page_command module

class `ask_sdk_model.interfaces.alexa.presentation.aplt.auto_page_command.AutoPageCommand` (`ask_sdk_model.interfaces.alexa.presentation.aplt.command.Command`)

(description of the class follows, partially cut off in the image)

Bases: `ask_sdk_model.interfaces.alexa.presentation.aplt.command.Command`

Automatically progress through a series of pages displayed in a Pager component. The AutoPage command finishes after the last page has been displayed for the requested time period.

Parameters

- **delay** ((optional) `int`)– The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.

- **description** ((*optional*) *str*) – A user-provided description of this command.
- **screen_lock** ((*optional*) *bool*) – If true, disable the Interaction Timer.
- **when** ((*optional*) *bool*) – A conditional expression to be evaluated in device. If false, the execution of the command is skipped. Defaults to true.
- **component_id** ((*optional*) *str*) – The id of the Pager component.
- **count** ((*optional*) *int*) – Number of pages to display. Defaults to all of them.
- **duration** ((*optional*) *int*) – Time to wait between pages (in milliseconds). Defaults to 0.

```
attribute_map = {'component_id': 'componentId', 'count': 'count', 'delay': 'delay',
deserialized_types = {'component_id': 'str', 'count': 'int', 'delay': 'int', 'descr
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.alexa.presentation.aplt.command module

```
class ask_sdk_model.interfaces.alexa.presentation.aplt.command.Command(object_type=None,
delay=None,
description=None,
screen_lock=None,
when=None)
```

Bases: `object`

A message that can change the visual or audio presentation of the content on the screen.

Parameters

- **object_type** ((*optional*) *str*) – Defines the command type and dictates which properties must/can be included.
- **delay** ((*optional*) *int*) – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** ((*optional*) *str*) – A user-provided description of this command.
- **screen_lock** ((*optional*) *bool*) – If true, disable the Interaction Timer.
- **when** ((*optional*) *bool*) – A conditional expression to be evaluated in device. If false, the execution of the command is skipped. Defaults to true.

Note: This is an abstract class. Use the following mapping, to figure out the model class to be instantiated, that sets `type` variable.

SetValue: `ask_sdk_model.interfaces.alexa.presentation.aplt.set_value_command.SetValueCommand`,

Idle:

`ask_sdk_model.interfaces.alexapresentation.aplt.idle_command.IdleCommand,`

AutoPage: `ask_sdk_model.interfaces.alexapresentation.aplt.auto_page_command.AutoPageCommand,`

Scroll: `ask_sdk_model.interfaces.alexapresentation.aplt.scroll_command.ScrollCommand,`

SendEvent: `ask_sdk_model.interfaces.alexapresentation.aplt.send_event_command.SendEventCommand,`

Parallel: `ask_sdk_model.interfaces.alexapresentation.aplt.parallel_command.ParallelCommand,`

SetPage: `ask_sdk_model.interfaces.alexapresentation.aplt.set_page_command.SetPageCommand,`

Sequential: `ask_sdk_model.interfaces.alexapresentation.aplt.sequential_command.SequentialCommand`

```

attribute_map = {'delay': 'delay', 'description': 'description', 'object_type': 'type'}
deserialized_types = {'delay': 'int', 'description': 'str', 'object_type': 'str', 'type': 'str'}
discriminator_value_class_map = {'AutoPage': 'ask_sdk_model.interfaces.alexapresentation.aplt.auto_page_command.AutoPageCommand'}
classmethod get_real_child_model (data)
    Returns the real base class specified by the discriminator
json_discriminator_key = 'type'
supports_multiple_types = False
to_dict ()
    Returns the model properties as a dict
to_str ()
    Returns the string representation of the model
    
```

`ask_sdk_model.interfaces.alexapresentation.aplt.execute_commands_directive` module

class `ask_sdk_model.interfaces.alexapresentation.aplt.execute_commands_directive.ExecuteCommandsDirective`

Bases: `ask_sdk_model.directive.Directive`

Alexa.Presentation.APLT.ExecuteCommands directive used to send APL-T commands to a device.

Parameters

- **commands** ((optional) `list[ask_sdk_model.interfaces.alexapresentation.aplt.command.Command]`) – List of Command instances

- **token** (*optional* *str*) – A skill defined token, unique for each presentation. Must match the token provided by the skill in the RenderDocument directive used to render the original APL document.

```

attribute_map = {'commands': 'commands', 'object_type': 'type', 'token': 'token'}
deserialized_types = {'commands': 'list[ask_sdk_model.interfaces.alexa.presentation.apl.
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.alexa.presentation.aplt.idle_command module

```

class ask_sdk_model.interfaces.alexa.presentation.aplt.idle_command.IdleCommand(delay=None, de-
scrip-
tion=None,
screen_lock=None,
when=None)

```

Bases: *ask_sdk_model.interfaces.alexa.presentation.aplt.command.Command*

The idle command does nothing. It may be a placeholder or used to insert a calculated delay in a longer series of commands.

Parameters

- **delay** (*optional* *int*) – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** (*optional* *str*) – A user-provided description of this command.
- **screen_lock** (*optional* *bool*) – If true, disable the Interaction Timer.
- **when** (*optional* *bool*) – A conditional expression to be evaluated in device. If false, the execution of the command is skipped. Defaults to true.

```

attribute_map = {'delay': 'delay', 'description': 'description', 'object_type': 'ty
deserialized_types = {'delay': 'int', 'description': 'str', 'object_type': 'str', '
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```


ask_sdk_model.interfaces.alexa.presentation.aplt.parallel_command module

class ask_sdk_model.interfaces.alexa.presentation.aplt.parallel_command.**ParallelCommand** (*de-*

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com
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Bases: `ask_sdk_model.interfaces.alexa.presentation.aplt.command.Command`

Execute a series of commands in parallel. The parallel command starts executing all child command simultaneously. The parallel command is considered finished when all of its child commands have finished. When the parallel command is terminated early, all currently executing commands are terminated.

Parameters

- **delay** (*optional int*) – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** (*optional str*) – A user-provided description of this command.
- **screen_lock** (*optional bool*) – If true, disable the Interaction Timer.
- **when** (*optional bool*) – A conditional expression to be evaluated in device. If false, the execution of the command is skipped. Defaults to true.
- **commands** (*optional list[ask_sdk_model.interfaces.alexa.presentation.aplt.command.Command]*) – An un-ordered array of commands to execute in parallel. Once all commands have finished executing the parallel command finishes. Please note that the delay of parallel command and the delay of each command are additive.

attribute_map = {'commands': 'commands', 'delay': 'delay', 'description': 'descript

deserialized_types = {'commands': 'list[ask_sdk_model.interfaces.alexa.presentation.ap

supports_multiple_types = **False**

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.interfaces.alexa.presentation.aplt.position module

class ask_sdk_model.interfaces.alexa.presentation.aplt.position.**Position**

Bases: `enum.Enum`

Whether the value is a relative or absolute offset. Defaults to absolute.

Allowed enum values: [absolute, relative]

absolute = 'absolute'

relative = 'relative'

to_dict ()

Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_sdk_model.interfaces.alexa.presentation.aplt.render_document_directive` module

`class ask_sdk_model.interfaces.alexa.presentation.aplt.render_document_directive.RenderDoc`

Bases: `ask_sdk_model.directive.Directive`

Parameters

- **token** (*optional* `str`) – A unique identifier for the presentation.
- **target_profile** (*optional* `ask_sdk_model.interfaces.alexa.presentation.aplt.target_profile.TargetProfile`) – One of supported profiles in character display. Default value is NONE.
- **document** (*optional* `dict(str, object)`) – Depending on the document type, it represents either an entire APLT document or a reference Link to the document. In a Link object, the value of the 'src' should follow a URI format defined like 'doc://alexa/aplt/documents/<document_id>'. The 'document_id' is a reference to the APLT document that the developer stores through APL Authoring Tool.
- **datasources** (*optional* `dict(str, object)`) – Data sources to bind to the document when rendering.

`attribute_map = {'datasources': 'datasources', 'document': 'document', 'object_type':`

`deserialized_types = {'datasources': 'dict(str, object)', 'document': 'dict(str, obj`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

`ask_sdk_model.interfaces.alexa.presentation.aplt.runtime` module

`class ask_sdk_model.interfaces.alexa.presentation.aplt.runtime.Runtime (max_version=None)`

Bases: `object`

Contains the runtime information for the interface.

Parameters `max_version` (*optional* `str`) – Maximum APL-T version supported by the runtime.

`attribute_map = {'max_version': 'maxVersion'}`

`deserialized_types = {'max_version': 'str'}`

`supports_multiple_types = False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_sdk_model.interfaces.alexa.presentation.aplt.scroll_command` module

`class ask_sdk_model.interfaces.alexa.presentation.aplt.scroll_command.ScrollCommand` (*delay=None, description=None, screen_lock=None, when=None, distance=None, component_id=None*)

Bases: `ask_sdk_model.interfaces.alexa.presentation.aplt.command.Command`

Scroll a ScrollView or Sequence forward or backward by a number of pages. The Scroll command has the following properties in addition to the regular command properties.

Parameters

- **delay** (*optional int*) – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** (*optional str*) – A user-provided description of this command.
- **screen_lock** (*optional bool*) – If true, disable the Interaction Timer.
- **when** (*optional bool*) – A conditional expression to be evaluated in device. If false, the execution of the command is skipped. Defaults to true.
- **distance** (*optional int*) – The number of pages to scroll. Defaults to 1.
- **component_id** (*optional str*) – The id of the component.

```
attribute_map = {'component_id': 'componentId', 'delay': 'delay', 'description': 'description', 'screen_lock': 'screenLock', 'when': 'when', 'distance': 'distance', 'component_id': 'componentId'}
deserialized_types = {'component_id': 'str', 'delay': 'int', 'description': 'str', 'screen_lock': 'bool', 'when': 'bool', 'distance': 'int', 'component_id': 'str'}
supports_multiple_types = False
```

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

ask_sdk_model.interfaces.alexa.presentation.aplt.send_event_command module

class ask_sdk_model.interfaces.alexa.presentation.aplt.send_event_command.**SendEventCommand**

Bases: *ask_sdk_model.interfaces.alexa.presentation.aplt.command.Command*

The SendEvent command allows the APL author to generate and send an event to Alexa.

Parameters

- **delay** (*optional int*) – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** (*optional str*) – A user-provided description of this command.
- **screen_lock** (*optional bool*) – If true, disable the Interaction Timer.
- **when** (*optional bool*) – A conditional expression to be evaluated in device. If false, the execution of the command is skipped. Defaults to true.
- **arguments** (*optional list[str]*) – An array of argument data to pass to Alexa.
- **components** (*optional list[str]*) – An array of components to extract value data from and provide to Alexa.

```
attribute_map = {'arguments': 'arguments', 'components': 'components', 'delay': 'de
```

```
deserialized_types = {'arguments': 'list[str]', 'components': 'list[str]', 'delay':
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_sdk_model.interfaces.alexa.presentation.aplt.sequential_command module

```
class ask_sdk_model.interfaces.alexa.presentation.aplt.sequential_command.SequentialCommand
```

Bases: `ask_sdk_model.interfaces.alexa.presentation.aplt.command.Command`

A sequential command executes a series of commands in order. The sequential command executes the command list in order, waiting for the previous command to finish before executing the next. The sequential command is finished when all of its child commands have finished. When the Sequential command is terminated early, the currently executing command is terminated and no further commands are executed.

Parameters

- **delay** (*optional* `int`) – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** (*optional* `str`) – A user-provided description of this command.
- **screen_lock** (*optional* `bool`) – If true, disable the Interaction Timer.
- **when** (*optional* `bool`) – A conditional expression to be evaluated in device. If false, the execution of the command is skipped. Defaults to true.
- **catch** (*optional* `list[ask_sdk_model.interfaces.alexa.presentation.aplt.command.Command]`) – An ordered list of commands to execute if this sequence is prematurely terminated.
- **commands** (*optional* `list[ask_sdk_model.interfaces.alexa.presentation.aplt.command.Command]`) – An array of commands to execute. The commands execute in order; each command must finish before the next can begin. Please note that the delay of sequential command and the delay of the first command in the sequence are additive.
- **object_finally** (*optional* `list[ask_sdk_model.interfaces.alexa.presentation.aplt.command.Command]`) – An ordered list of commands to execute after the normal commands and the catch commands.
- **repeat_count** (*optional* `int`) – The number of times to repeat this series of commands. Defaults to 0. Negative values will be ignored. Note that the delay assigned to overall sequential command only applies the first time. For example, in the sample sequential command below the first SendEvent fires at 3000 milliseconds, the second at 5000, the first SendEvent fires again at 7000 milliseconds, and so forth. `{"type": "Sequential", "delay": 1000, "repeatCount": 2, "commands": [{ "type": "SendEvent", "delay": 2000}, {"type": "SendEvent", "delay": 2000}]}`

```
attribute_map = {'catch': 'catch', 'commands': 'commands', 'delay': 'delay', 'descr
```

```

deserialized_types = {'catch': 'list[ask_sdk_model.interfaces.alexa.presentation.aplt
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.alexa.presentation.aplt.set_page_command module

```

class ask_sdk_model.interfaces.alexa.presentation.aplt.set_page_command.SetPageCommand(delay

```

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scrip-
tion=
scree-
when-
com-
po-
nent_
po-
si-
tion=
value*

Bases: `ask_sdk_model.interfaces.alexa.presentation.aplt.command.Command`

Change the page displayed in a Pager component. The SetPage command finishes when the item is fully in view.

Parameters

- **delay** (*optional* `int`) – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** (*optional* `str`) – A user-provided description of this command.
- **screen_lock** (*optional* `bool`) – If true, disable the Interaction Timer.
- **when** (*optional* `bool`) – A conditional expression to be evaluated in device. If false, the execution of the command is skipped. Defaults to true.
- **component_id** (*optional* `str`) – The id of the Pager component.
- **position** (*optional* `ask_sdk_model.interfaces.alexa.presentation.aplt.position.Position`) –
- **value** (*optional* `int`) – The distance to move. May be an absolute value or a relative value.

```

attribute_map = {'component_id': 'componentId', 'delay': 'delay', 'description': 'd
deserialized_types = {'component_id': 'str', 'delay': 'int', 'description': 'str',
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.alexa.presentation.aplt.set_value_command module

class ask_sdk_model.interfaces.alexa.presentation.aplt.set_value_command.SetValueCommand (de

Bases: `ask_sdk_model.interfaces.alexa.presentation.aplt.command.Command`

Change a dynamic property of a component without redrawing the screen.

Parameters

- **delay** ((optional) *int*) – The delay in milliseconds before this command starts executing; must be non-negative. Defaults to 0.
- **description** ((optional) *str*) – A user-provided description of this command.
- **screen_lock** ((optional) *bool*) – If true, disable the Interaction Timer.
- **when** ((optional) *bool*) – A conditional expression to be evaluated in device. If false, the execution of the command is skipped. Defaults to true.
- **component_id** ((optional) *str*) – The id of the component whose value to set.
- **object_property** ((optional) *str*) – The name of the property to set.
- **value** ((optional) *str*) – The property value to set.

`attribute_map = {'component_id': 'componentId', 'delay': 'delay', 'description': 'd`

`deserialized_types = {'component_id': 'str', 'delay': 'int', 'description': 'str',`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

ask_sdk_model.interfaces.alexa.presentation.aplt.target_profile module

class ask_sdk_model.interfaces.alexa.presentation.aplt.target_profile.TargetProfile

Bases: `enum.Enum`

Name of a supported profile on character display.

Allowed enum values: [FOUR_CHARACTER_CLOCK, NONE]

FOUR_CHARACTER_CLOCK = 'FOUR_CHARACTER_CLOCK'

NONE = 'NONE'

```

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.interfaces.alexa.presentation.aplt.user_event module

```

class ask_sdk_model.interfaces.alexa.presentation.aplt.user_event.UserEvent (request_id=None,
                                                                    times-
                                                                    tamp=None,
                                                                    lo-
                                                                    cale=None,
                                                                    to-
                                                                    ken=None,
                                                                    ar-
                                                                    gu-
                                                                    ments=None,
                                                                    source=None)
    
```

Bases: `ask_sdk_model.request.Request`

Parameters

- **request_id** (*optional str*) – Represents the unique identifier for the specific request.
- **timestamp** (*optional datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **token** (*optional str*) – A unique token for the active presentation.
- **arguments** (*optional list[object]*) – The array of argument data to pass to Alexa.
- **source** (*optional object*) – Meta-information about what caused the event to be generated.

```

attribute_map = {'arguments': 'arguments', 'locale': 'locale', 'object_type': 'type'}
deserialized_types = {'arguments': 'list[object]', 'locale': 'str', 'object_type': 'type'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.interfaces.alexa.presentation.html package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

`ask_sdk_model.interfaces.alexa.presentation.html.alexa_presentation_html_interface` module

```
class ask_sdk_model.interfaces.alexa.presentation.html.alexa_presentation_html_interface.AlexaPresentationHTMLInterface
    Bases: object

    Parameters runtime ((optional) ask_sdk_model.interfaces.alexa.presentation.html.runtime.Runtime)-

    attribute_map = {'runtime': 'runtime'}

    deserialized_types = {'runtime': 'ask_sdk_model.interfaces.alexa.presentation.html.runtime.Runtime'}

    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model
```

`ask_sdk_model.interfaces.alexa.presentation.html.configuration` module

```
class ask_sdk_model.interfaces.alexa.presentation.html.configuration.Configuration(timeout_in_seconds)
    Bases: object

    Parameters timeout_in_seconds ((optional) int) – The number of seconds the content can stay on the screen without user interaction. Default value is 30 seconds. Maximum allowed value is 5 minutes.

    attribute_map = {'timeout_in_seconds': 'timeoutInSeconds'}

    deserialized_types = {'timeout_in_seconds': 'int'}

    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model
```

`ask_sdk_model.interfaces.alexa.presentation.html.handle_message_directive` module

```
class ask_sdk_model.interfaces.alexa.presentation.html.handle_message_directive.HandleMessageDirective
    Bases: ask_sdk_model.directive.Directive
```

The `HandleMessage` directive sends a message to a skill's web application that runs on the device browser. To use this directive, [apply to participate](https://build.amazonalexadev.com/AlexaWebAPIforGamesDeveloperPreview_AlexaWebAPIforGames.html) in the Alexa Web API for Games developer preview.

Parameters

- **message** (*optional* *object*) – A free-form object containing data to deliver to a skill's HTML application running the device. Maximum size 18 KB.
- **transformers** (*optional* *list*[`ask_sdk_model.interfaces.alexapresentation.html.transformer.Transformer`]) – An array of objects for performing text-to-speech transformations with message data

```
attribute_map = {'message': 'message', 'object_type': 'type', 'transformers': 'tran
```

```
deserialized_types = {'message': 'object', 'object_type': 'str', 'transformers': 'l
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

`ask_sdk_model.interfaces.alexapresentation.html.message_request` module

```
class ask_sdk_model.interfaces.alexapresentation.html.message_request.MessageRequest (request
times-
tamp=
lo-
cale=l
mes-
sage=
```

Bases: `ask_sdk_model.request.Request`

The Message request sends a message to the skill lambda. To use this request, [apply to participate](https://build.amazonalexadev.com/AlexaWebAPIforGamesDeveloperPreview_AlexaWebAPIforGames.html) in the Alexa Web API for Games developer preview.

Parameters

- **request_id** (*optional* *str*) – Represents the unique identifier for the specific request.
- **timestamp** (*optional* *datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional* *str*) – A string indicating the user's locale. For example: en-US. This value is only provided with certain request types.
- **message** (*optional* *object*) – A free-form object containing data from a skill's HTML application to deliver to the Alexa cloud. Maximum size 18 KB.

```
attribute_map = {'locale': 'locale', 'message': 'message', 'object_type': 'type', 'l
```

```
deserialized_types = {'locale': 'str', 'message': 'object', 'object_type': 'str', 'l
```

```
supports_multiple_types = False
```

```

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.interfaces.alexa.presentation.html.runtime module

```

class ask_sdk_model.interfaces.alexa.presentation.html.runtime.Runtime (max_version=None)
    Bases: object

    Contains the runtime information for the interface.

    Parameters max_version ((optional) str) – The max version of the HTML runtime supported by the device.

    attribute_map = {'max_version': 'maxVersion'}
    deserialized_types = {'max_version': 'str'}
    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model
    
```

ask_sdk_model.interfaces.alexa.presentation.html.start_directive module

```

class ask_sdk_model.interfaces.alexa.presentation.html.start_directive.StartDirective (data=
    trans-
    form-
    ers=N
    re-
    quest=
    con-
    fig-
    u-
    ra-
    tion=N
)

    Bases: ask_sdk_model.directive.Directive
    
```

The Start directive provides the data necessary to load an HTML page on the target device. To use this directive, [apply to participate](https://build.amazonalexadev.com/AlexaWebAPIforGamesDeveloperPreview_AlexaWebAPIforGames.html) in the Alexa Web API for Games developer preview.

Parameters

- **data** (*(optional) object*) – Optional startup data which will be made available to the runtime for skill startup. Maximum size: 18 KB
- **transformers** (*(optional) list[ask_sdk_model.interfaces.alexa.presentation.html.transformer.Transformer]*) – An array of objects for performing text-to-speech transformations with message data
- **request** (*(optional) ask_sdk_model.interfaces.alexa.presentation.html.start_request.StartRequest*) –

```

    • configuration ((optional) ask_sdk_model.interfaces.alexa.
        presentation.html.configuration.Configuration)–
attribute_map = {'configuration': 'configuration', 'data': 'data', 'object_type': 'data'}
deserialized_types = {'configuration': 'ask_sdk_model.interfaces.alexa.presentation.html.configuration.Configuration'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.alexa.presentation.html.start_request module

```

class ask_sdk_model.interfaces.alexa.presentation.html.start_request.StartRequest (method=None, uri=None, headers=None)

```

Bases: object

Parameters

```

    • method ((optional) ask_sdk_model.interfaces.alexa.presentation.html.start_request_method.StartRequestMethod)–
    –
    • uri ((optional) str) – HTTPS URI of the HTML page to load. This URI must abide by the [URI RFC 3986](https://tools.ietf.org/html/rfc3986). The HTML runtime must perform secure requests, using the HTTPS schema. Maximum size 8000 characters
    • headers ((optional) object) – HTTP headers that the HTML runtime requires to access resources. Only the Authorization header and custom headers are allowed
attribute_map = {'headers': 'headers', 'method': 'method', 'uri': 'uri'}
deserialized_types = {'headers': 'object', 'method': 'ask_sdk_model.interfaces.alexa.presentation.html.start_request_method.StartRequestMethod'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.alexa.presentation.html.start_request_method module

```

class ask_sdk_model.interfaces.alexa.presentation.html.start_request_method.StartRequestMethod
    Bases: enum.Enum
    Allowed enum values: [GET]
GET = 'GET'
to_dict()
    Returns the model properties as a dict

```

```
to_str()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.alexa.presentation.html.transformer module

```
class ask_sdk_model.interfaces.alexa.presentation.html.transformer.Transformer (transformer=None,
in-
put_path=None,
out-
put_name=None)
```

Bases: `object`

Properties for performing text to speech transformations. These are the same properties that [APL transformers](<https://developer.amazon.com/docs/alexa-presentation-language/apl-data-source.html#transformer-properties-and-conversion-rules>) use.

Parameters

- **transformer** ((*optional*) `ask_sdk_model.interfaces.alexa.presentation.html.transformer_type.TransformerType`) –
- **input_path** ((*optional*) `str`) – A JSON path that points to either a single entity in the message object, or a set of entities using wildcard or unresolved arrays. Examples 'family[*].name', 'address.street'. See [APL transformer properties](<https://developer.amazon.com/docs/alexa-presentation-language/apl-data-source.html#transformer-properties-and-conversion-rules>) for more details.
- **output_name** ((*optional*) `str`) – Name of the output property to add to the message object. For example, if the `inputPath` is 'address.street', the transformer output will be stored at 'address.outputName'. If no `outputName` is supplied, the transformer output will override the value at `inputPath`.

```
attribute_map = {'input_path': 'inputPath', 'output_name': 'outputName', 'transformer': 'transformer'}
```

```
deserialized_types = {'input_path': 'str', 'output_name': 'str', 'transformer': 'ask_sdk_model.interfaces.alexa.presentation.html.transformer_type.TransformerType'}
```

```
supports_multiple_types = False
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.alexa.presentation.html.transformer_type module

```
class ask_sdk_model.interfaces.alexa.presentation.html.transformer_type.TransformerType
    Bases: enum.Enum
```

Allowed enum values: [`ssmlToSpeech`, `textToSpeech`, `textToHint`, `ssmlToText`]

```
ssmlToSpeech = 'ssmlToSpeech'
```

```
ssmlToText = 'ssmlToText'
```

```
textToHint = 'textToHint'
```

```
textToSpeech = 'textToSpeech'
```

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

`ask_sdk_model.interfaces.amazonpay` package

Subpackages

`ask_sdk_model.interfaces.amazonpay.model` package

Subpackages

`ask_sdk_model.interfaces.amazonpay.model.request` package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

`ask_sdk_model.interfaces.amazonpay.model.request.authorize_attributes` module

class `ask_sdk_model.interfaces.amazonpay.model.request.authorize_attributes.AuthorizeAttrib`

Bases: `ask_sdk_model.interfaces.amazonpay.model.request.base_amazon_pay_entity.BaseAmazonPayEntity`

This is an object to set the attributes specified in the AuthorizeAttributes table. See the “AuthorizationDetails” section of the Amazon Pay API reference guide for details about this object.

Parameters

- **authorization_reference_id** (*optional* `str`) – This is 3P seller’s identifier for this authorization transaction. This identifier must be unique for all of your authorization transactions.
- **authorization_amount** (*optional* `ask_sdk_model.interfaces.amazonpay.model.request.price.Price`) –

- **transaction_timeout** (*optional* *int*) – The maximum number of minutes allocated for the Authorize operation call to be processed. After this the authorization is automatically declined and you cannot capture funds against the authorization. The default value for Alexa transactions is 0. In order to speed up checkout time for voice users we recommend to not change this value.
- **seller_authorization_note** (*optional* *str*) – A description for the transaction that is included in emails to the user. Appears only when AuthorizeAndCapture is chosen.
- **soft_descriptor** (*optional* *str*) – The description to be shown on the user’s payment instrument statement if AuthorizeAndCapture is chosen. Format of soft descriptor sent to the payment processor is "AMZ* <soft descriptor specified here>". Default is "AMZ*<SELLER_NAME> amzn.com/ pmts WA". Maximum length can be 16 characters.
- **version** (*optional* *str*) – Version of the Amazon Pay Entity. Can be 1 or greater.

`attribute_map = {'authorization_amount': 'authorizationAmount', 'authorization_referen`

`deserialized_types = {'authorization_amount': 'ask_sdk_model.interfaces.amazonpay.mod`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

ask_sdk_model.interfaces.amazonpay.model.request.base_amazon_pay_entity module

`class ask_sdk_model.interfaces.amazonpay.model.request.base_amazon_pay_entity.BaseAmazonPay`

Bases: `object`

Parameters

- **object_type** (*optional* *str*) –
- **version** (*optional* *str*) – Version of the Amazon Pay Entity. Can be 1 or greater.

Note: This is an abstract class. Use the following mapping, to figure out the model class to be instantiated, that sets @type variable.

SellerBillingAgreementAttributes: `ask_sdk_model.interfaces.amazonpay.model.request.seller_billing_agreement_attributes.SellerBillingAgreementAttributes,`

Price: `ask_sdk_model.interfaces.amazonpay.model.request.price.Price,`

ChargeAmazonPayRequest: `ask_sdk_model.interfaces.amazonpay.request.charge_amazon_pay_request.ChargeAmazonPayRequest,`

BillingAgreementAttributes: `ask_sdk_model.interfaces.amazonpay.model.request.billing_agreement_attributes.BillingAgreementAttributes,`

`SellerOrderAttributes`: `ask_sdk_model.interfaces.amazonpay.model.request.seller_order_attributes.SellerOrderAttributes`,

`ProviderAttributes`: `ask_sdk_model.interfaces.amazonpay.model.request.provider_attributes.ProviderAttributes`,

`AuthorizeAttributes`: `ask_sdk_model.interfaces.amazonpay.model.request.authorize_attributes.AuthorizeAttributes`,

`SetupAmazonPayRequest`: `ask_sdk_model.interfaces.amazonpay.request.setup_amazon_pay_request.SetupAmazonPayRequest`,

`ProviderCredit`: `ask_sdk_model.interfaces.amazonpay.model.request.provider_credit.ProviderCredit`

```
attribute_map = {'object_type': '@type', 'version': '@version'}
```

```
deserialized_types = {'object_type': 'str', 'version': 'str'}
```

```
discriminator_value_class_map = {'AuthorizeAttributes': 'ask_sdk_model.interfaces.ama
```

```
classmethod get_real_child_model(data)
```

```
    Returns the real base class specified by the discriminator
```

```
json_discriminator_key = '@type'
```

```
supports_multiple_types = False
```

```
to_dict()
```

```
    Returns the model properties as a dict
```

```
to_str()
```

```
    Returns the string representation of the model
```

`ask_sdk_model.interfaces.amazonpay.model.request.billing_agreement_attributes` module

```
class ask_sdk_model.interfaces.amazonpay.model.request.billing_agreement_attributes.Billin
```

Bases: `ask_sdk_model.interfaces.amazonpay.model.request.base_amazon_pay_entity.BaseAmazonPayEntity`

The merchant can choose to set the attributes specified in the `BillingAgreementAttributes`.

Parameters

- `platform_id` (*optional*) `str` – Represents the `SellerId` of the Solution Provider that developed the eCommerce platform. This value is only used by Solution Providers,

for whom it is required. It should not be provided by merchants creating their own custom integration. Do not specify the SellerId of the merchant for this request parameter. If you are a merchant, do not enter a PlatformId.

- **seller_note** (*optional* *str*) – Represents a description of the billing agreement that is displayed in emails to the buyer.
- **seller_billing_agreement_attributes** (*optional*)
`ask_sdk_model.interfaces.amazonpay.model.request.seller_billing_agreement_attributes.SellerBillingAgreementAttributes` –
- **billing_agreement_type** (*optional*) `ask_sdk_model.interfaces.amazonpay.model.request.billing_agreement_type.BillingAgreementType` –
- **subscription_amount** (*optional*) `ask_sdk_model.interfaces.amazonpay.model.request.price.Price` –
- **version** (*optional* *str*) – Version of the Amazon Pay Entity. Can be 1 or greater.

```
attribute_map = {'billing_agreement_type': 'billingAgreementType', 'object_type': '@
deserialized_types = {'billing_agreement_type': 'ask_sdk_model.interfaces.amazonpay.m
supports_multiple_types = False
to_dict ()
    Returns the model properties as a dict
to_str ()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.amazonpay.model.request.billing_agreement_type module

```
class ask_sdk_model.interfaces.amazonpay.model.request.billing_agreement_type.BillingAgreementType
    Bases: enum.Enum

    • This is used to specify applicable billing agreement type. * CustomerInitiatedTransaction – customer is
      present at the time of processing payment for the order. * MerchantInitiatedTransaction – customer is not
      present at the time of processing payment for the order.

    Allowed enum values: [CustomerInitiatedTransaction, MerchantInitiatedTransaction]

    CustomerInitiatedTransaction = 'CustomerInitiatedTransaction'
    MerchantInitiatedTransaction = 'MerchantInitiatedTransaction'

    to_dict ()
        Returns the model properties as a dict

    to_str ()
        Returns the string representation of the model
```

ask_sdk_model.interfaces.amazonpay.model.request.payment_action module

```
class ask_sdk_model.interfaces.amazonpay.model.request.payment_action.PaymentAction
    Bases: enum.Enum
```

- This is used to specify applicable payment action. * Authorize – you want to confirm the order and authorize a certain amount, but you do not want to capture at this time. * AuthorizeAndCapture – you want to confirm the order, authorize for the given amount, and capture the funds.

Allowed enum values: [Authorize, AuthorizeAndCapture]

Authorize = 'Authorize'

AuthorizeAndCapture = 'AuthorizeAndCapture'

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.interfaces.amazonpay.model.request.price module

```
class ask_sdk_model.interfaces.amazonpay.model.request.price.Price (amount=None,
                                                                    cur-
                                                                    rency_code=None,
                                                                    ver-
                                                                    sion=None)
```

Bases: `ask_sdk_model.interfaces.amazonpay.model.request.base_amazon_pay_entity.BaseAmazonPayEntity`

This request object specifies amount and currency authorized/captured.

Parameters

- **amount** ((optional) *str*) – Amount authorized/captured.
- **currency_code** ((optional) *str*) – Currency code for the amount.
- **version** ((optional) *str*) – Version of the Amazon Pay Entity. Can be 1 or greater.

attribute_map = {'amount': 'amount', 'currency_code': 'currencyCode', 'object_type':

deserialized_types = {'amount': 'str', 'currency_code': 'str', 'object_type': 'str'

supports_multiple_types = False

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.interfaces.amazonpay.model.request.provider_attributes module

```
class ask_sdk_model.interfaces.amazonpay.model.request.provider_attributes.ProviderAttribut
```

Bases: `ask_sdk_model.interfaces.amazonpay.model.request.base_amazon_pay_entity.BaseAmazonPayEntity`

This is required only for Ecommerce provider (Solution provider) use cases.

Parameters

- **provider_id** (*optional* *str*) – Solution provider ID.
- **provider_credit_list** (*optional* *list*[*ask_sdk_model.interfaces.amazonpay.model.request.provider_credit.ProviderCredit*]) – List of provider credit.
- **version** (*optional* *str*) – Version of the Amazon Pay Entity. Can be 1 or greater.

```
attribute_map = {'object_type': '@type', 'provider_credit_list': 'providerCreditList'}
deserialized_types = {'object_type': 'str', 'provider_credit_list': 'list[ask_sdk_model.interfaces.amazonpay.model.request.provider_credit.ProviderCredit]'}
supports_multiple_types = False
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.amazonpay.model.request.provider_credit module

```
class ask_sdk_model.interfaces.amazonpay.model.request.provider_credit.ProviderCredit (provider_credit=1, version=1)
```

Bases: *ask_sdk_model.interfaces.amazonpay.model.request.base_amazon_pay_entity.BaseAmazonPayEntity*

Parameters

- **provider_id** (*optional* *str*) – This is required only for Ecommerce provider (Solution provider) use cases.
- **credit** (*optional* *ask_sdk_model.interfaces.amazonpay.model.request.price.Price*) –
- **version** (*optional* *str*) – Version of the Amazon Pay Entity. Can be 1 or greater.

```
attribute_map = {'credit': 'credit', 'object_type': '@type', 'provider_id': 'providerId'}
deserialized_types = {'credit': 'ask_sdk_model.interfaces.amazonpay.model.request.price.Price', 'provider_id': 'str'}
supports_multiple_types = False
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.amazonpay.model.request.seller_billing_agreement_attributes module

```
class ask_sdk_model.interfaces.amazonpay.model.request.seller_billing_agreement_attributes
```

Bases: *ask_sdk_model.interfaces.amazonpay.model.request.base_amazon_pay_entity.BaseAmazonPayEntity*

Provides more context about the billing agreement that is represented by this Billing Agreement object.

Parameters

- **seller_billing_agreement_id** (*optional* *str*) – The merchant-specified identifier of this billing agreement. At least one request parameter must be specified. Amazon recommends that you use only the following characters: - lowercase a-z, uppercase A-Z, numbers 0-9, dash (-), underscore (_).
- **store_name** (*optional* *str*) – The identifier of the store from which the order was placed. This overrides the default value in Seller Central under Settings > Account Settings. It is displayed to the buyer in their emails and transaction history on the Amazon Payments website.
- **custom_information** (*optional* *str*) – Any additional information that you wish to include with this billing agreement. At least one request parameter must be specified.
- **version** (*optional* *str*) – Version of the Amazon Pay Entity. Can be 1 or greater.

```
attribute_map = {'custom_information': 'customInformation', 'object_type': '@type',
deserialized_types = {'custom_information': 'str', 'object_type': 'str', 'seller_bil
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_sdk_model.interfaces.amazonpay.model.request.seller_order_attributes module

```
class ask_sdk_model.interfaces.amazonpay.model.request.seller_order_attributes.SellerOrderAttributes
```

Bases: `ask_sdk_model.interfaces.amazonpay.model.request.base_amazon_pay_entity.BaseAmazonPayEntity`

This object includes elements shown to buyers in emails and in their transaction history. See the “SellerOrderAttributes” section of the Amazon Pay API reference guide for details about this object.

Parameters

- **seller_order_id** (*optional* *str*) – The merchant-specified identifier of this order. This is shown to the buyer in their emails and transaction history on the Amazon Pay website.
- **store_name** (*optional* *str*) – The identifier of the store from which the order was placed. This overrides the default value in Seller Central under Settings > Account Settings. It is displayed to the buyer in their emails and transaction history on the Amazon Payments website.
- **custom_information** (*optional* *str*) – Any additional information that you want to include with this order reference.

- **seller_note** (*optional* *str*) – This represents a description of the order that is displayed in emails to the buyer.
- **version** (*optional* *str*) – Version of the Amazon Pay Entity. Can be 1 or greater.

```
attribute_map = {'custom_information': 'customInformation', 'object_type': '@type',
deserialized_types = {'custom_information': 'str', 'object_type': 'str', 'seller_not
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.amazonpay.model.response package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

`ask_sdk_model.interfaces.amazonpay.model.response.authorization_details` module

class `ask_sdk_model.interfaces.amazonpay.model.response.authorization_details.Authorization`

Bases: `ask_sdk_model.interfaces.amazonpay.model.v1.authorization_details.AuthorizationDetails`

This object encapsulates details about an Authorization object including the status, amount captured and fee charged.

Parameters

- **`amazon_authorization_id`** (*optional*) `str` – This is AmazonPay generated identifier for this authorization transaction.
- **`authorization_reference_id`** (*optional*) `str` – This is 3P seller’s identifier for this authorization transaction. This identifier must be unique for all of your authorization transactions.
- **`seller_authorization_note`** (*optional*) `str` – A description for the transaction that is included in emails to the user. Appears only when `AuthorizeAndCapture` is chosen.
- **`authorization_amount`** (*optional*) `ask_sdk_model.interfaces.`

- amazonpay.model.response.price.Price)–
- **captured_amount** ((optional) ask_sdk_model.interfaces.amazonpay.model.response.price.Price)–
- **authorization_fee** ((optional) ask_sdk_model.interfaces.amazonpay.model.response.price.Price)–
- **id_list** ((optional) list[str])– list of AmazonCaptureId identifiers that have been requested on this Authorization object.
- **creation_timestamp** ((optional) datetime)– This is the time at which the authorization was created.
- **expiration_timestamp** ((optional) datetime)– This is the time at which the authorization expires.
- **authorization_status** ((optional) ask_sdk_model.interfaces.amazonpay.model.response.authorization_status.AuthorizationStatus)–
- **soft_decline** ((optional) bool)– This indicates whether an authorization resulted in a soft decline.
- **capture_now** ((optional) bool)– This indicates whether a direct capture against the payment contract was specified.
- **soft_descriptor** ((optional) str)– This is the description to be shown on the buyer’s payment instrument statement if AuthorizeAndCapture was chosen.
- **authorization_billing_address** ((optional) ask_sdk_model.interfaces.amazonpay.model.response.destination.Destination)–

```

attribute_map = {'amazon_authorization_id': 'amazonAuthorizationId', 'authorization_a
deserialized_types = {'amazon_authorization_id': 'str', 'authorization_amount': 'ask
supports_multiple_types = False
to_dict ()
    Returns the model properties as a dict
to_str ()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.amazonpay.model.response.authorization_status module

```
class ask_sdk_model.interfaces.amazonpay.model.response.authorization_status.AuthorizationStatus
```

Bases: `ask_sdk_model.interfaces.amazonpay.model.v1.authorization_status.AuthorizationStatus`

Indicates the current status of an Authorization object, a Capture object, or a Refund object.

Parameters

- **state** ((*optional*) *ask_sdk_model.interfaces.amazonpay.model.response.state.State*) –
- **reason_code** ((*optional*) *str*) – The reason that the Authorization object, Capture object, or Refund object is in the current state. For more information, see - <https://pay.amazon.com/us/developer/documentation/apireference/201752950>
- **reason_description** ((*optional*) *str*) – Reason description corresponding to the reason code
- **last_update_timestamp** ((*optional*) *datetime*) – A timestamp that indicates the time when the authorization, capture, or refund state was last updated. In ISO 8601 format

attribute_map = {'last_update_timestamp': 'lastUpdateTimestamp', 'reason_code': 'rea

deserialized_types = {'last_update_timestamp': 'datetime', 'reason_code': 'str', 're

supports_multiple_types = **False**

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.interfaces.amazonpay.model.response.billing_agreement_details module

class *ask_sdk_model.interfaces.amazonpay.model.response.billing_agreement_details.BillingA*

Bases: *ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_details.BillingAgreementDetails*

The result attributes from successful SetupAmazonPay call.

Parameters

- **billing_agreement_id** ((*optional*) *str*) – Billing agreement id which can be used for one time and recurring purchases
- **creation_timestamp** ((*optional*) *datetime*) – Time at which billing agreement details created.
- **destination** ((*optional*) *ask_sdk_model.interfaces.amazonpay.model.v1.destination.Destination*) – The default shipping address of the buyer. Returned if needAmazonShippingAddress is set to true.
- **checkout_language** ((*optional*) *str*) – Merchant’s preferred language of check-out.

- **release_environment** ((optional) ask_sdk_model.interfaces.amazonpay.model.response.release_environment.ReleaseEnvironment)–
- **billing_agreement_status** ((optional) ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_status.BillingAgreementStatus)–
- **billing_address** ((optional) ask_sdk_model.interfaces.amazonpay.model.response.destination.Destination) – The Billing Address of the payment instrument associated with Billing Agreement.

attribute_map = {'billing_address': 'billingAddress', 'billing_agreement_id': 'billi

deserialized_types = {'billing_address': 'ask_sdk_model.interfaces.amazonpay.model.re

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.amazonpay.model.response.destination module

class ask_sdk_model.interfaces.amazonpay.model.response.destination.Destination (name=None, com-pany_name=None, ad-dress_line1=None, ad-dress_line2=None, ad-dress_line3=None, city=None, dis-trict_or_county=None, state_or_region=None, postal_code=None, coun-try_code=None, phone=None)

Bases: ask_sdk_model.interfaces.amazonpay.model.v1.destination.Destination

Parameters

- **name** ((optional) str) – The name or business name
- **company_name** ((optional) str) – The company name
- **address_line1** ((optional) str) – The first line of the address. At least one AddressLine (AddressLine1, AddressLine2, or AddressLine3) is required.
- **address_line2** ((optional) str) – The second line of the address. At least one AddressLine (AddressLine1, AddressLine2, or AddressLine3) is required.
- **address_line3** ((optional) str) – The third line of the address. At least one AddressLine (AddressLine1, AddressLine2, or AddressLine3) is required.

- **city** (*optional str*) – The city
- **district_or_county** (*optional str*) – The district or County
- **state_or_region** (*optional str*) – The state or region. This element is free text and can be either a 2-character code, fully spelled out, or abbreviated. Required. Note :- This response element is returned only in the U.S.
- **postal_code** (*optional str*) – The postal code.
- **country_code** (*optional str*) – The country code, in ISO 3166 format
- **phone** (*optional str*) – The phone number

```
attribute_map = {'address_line1': 'addressLine1', 'address_line2': 'addressLine2', 'address_line3': 'addressLine3'}
deserialized_types = {'address_line1': 'str', 'address_line2': 'str', 'address_line3': 'str'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.amazonpay.model.response.price module

```
class ask_sdk_model.interfaces.amazonpay.model.response.price.Price(amount=None,
                                                                    cur-
                                                                    rency_code=None)

Bases: ask_sdk_model.interfaces.amazonpay.model.v1.price.Price
```

This response object specifies amount and currency authorized/captured.

Parameters

- **amount** (*optional str*) – Amount authorized/captured.
- **currency_code** (*optional str*) – Currency code for the amount.

```
attribute_map = {'amount': 'amount', 'currency_code': 'currencyCode'}
deserialized_types = {'amount': 'str', 'currency_code': 'str'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.amazonpay.model.response.release_environment module

```
class ask_sdk_model.interfaces.amazonpay.model.response.release_environment.ReleaseEnvironment

Bases: enum.Enum
```

Indicates if the contract is for a Live (Production) or Sandbox environment.

Allowed enum values: [LIVE, SANDBOX]

```
LIVE = 'LIVE'
```

```
SANDBOX = 'SANDBOX'
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.amazonpay.model.response.state module

```
class ask_sdk_model.interfaces.amazonpay.model.response.state.State
```

```
    Bases: enum.Enum
```

Indicates the state that the Authorization object is in. For more information see “Authorization states and reason codes” under “States and reason codes” section in Amazon Pay API Reference Guide.

Allowed enum values: [Pending, Open, Declined, Closed]

```
Closed = 'Closed'
```

```
Declined = 'Declined'
```

```
Open = 'Open'
```

```
Pending = 'Pending'
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.amazonpay.model.v1 package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

`ask_sdk_model.interfaces.amazonpay.model.v1.authorization_details` module

class `ask_sdk_model.interfaces.amazonpay.model.v1.authorization_details.AuthorizationDetails`

Bases: `object`

This object encapsulates details about an Authorization object including the status, amount captured and fee charged.

Parameters

- **`amazon_authorization_id`** (*optional* `str`) – This is AmazonPay generated identifier for this authorization transaction.
- **`authorization_reference_id`** (*optional* `str`) – This is 3P seller’s identifier for this authorization transaction. This identifier must be unique for all of your authorization transactions.
- **`seller_authorization_note`** (*optional* `str`) – A description for the transaction that is included in emails to the user. Appears only when `AuthorizeAndCapture` is chosen.
- **`authorization_amount`** (*optional* `ask_sdk_model.interfaces.amazonpay.model.v1.price.Price`) –
- **`captured_amount`** (*optional* `ask_sdk_model.interfaces.amazonpay.model.v1.price.Price`) –

- **authorization_fee** ((*optional*) `ask_sdk_model.interfaces.amazonpay.model.v1.price.Price`) –
- **id_list** ((*optional*) `list[str]`) – list of AmazonCaptureId identifiers that have been requested on this Authorization object.
- **creation_timestamp** ((*optional*) `datetime`) – This is the time at which the authorization was created.
- **expiration_timestamp** ((*optional*) `datetime`) – This is the time at which the authorization expires.
- **authorization_status** ((*optional*) `ask_sdk_model.interfaces.amazonpay.model.v1.authorization_status.AuthorizationStatus`) –
- **soft_decline** ((*optional*) `bool`) – This indicates whether an authorization resulted in a soft decline.
- **capture_now** ((*optional*) `bool`) – This indicates whether a direct capture against the payment contract was specified.
- **soft_descriptor** ((*optional*) `str`) – This is the description to be shown on the buyer’s payment instrument statement if AuthorizeAndCapture was chosen.

`attribute_map = {'amazon_authorization_id': 'amazonAuthorizationId', 'authorization_a`

`deserialized_types = {'amazon_authorization_id': 'str', 'authorization_amount': 'ask`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

ask_sdk_model.interfaces.amazonpay.model.v1.authorization_status module

`class ask_sdk_model.interfaces.amazonpay.model.v1.authorization_status.AuthorizationStatus`

Bases: `object`

Indicates the current status of an Authorization object, a Capture object, or a Refund object.

Parameters

- **state** ((*optional*) `ask_sdk_model.interfaces.amazonpay.model.v1.state.State`) –
- **reason_code** ((*optional*) `str`) – The reason that the Authorization object, Capture object, or Refund object is in the current state. For more information, see - <https://pay.amazon.com/us/developer/documentation/apireference/201752950>
- **reason_description** ((*optional*) `str`) – Reason description corresponding to the reason code

- **last_update_timestamp** (*optional datetime*) – A timestamp that indicates the time when the authorization, capture, or refund state was last updated. In ISO 8601 format

```
attribute_map = {'last_update_timestamp': 'lastUpdateTimestamp', 'reason_code': 'rea
deserialized_types = {'last_update_timestamp': 'datetime', 'reason_code': 'str', 're
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.amazonpay.model.v1.authorize_attributes module

```
class ask_sdk_model.interfaces.amazonpay.model.v1.authorize_attributes.AuthorizeAttributes
```

Bases: `object`

This is an object to set the attributes specified in the AuthorizeAttributes table. See the “AuthorizationDetails” section of the Amazon Pay API reference guide for details about this object.

Parameters

- **authorization_reference_id** (*optional str*) – This is 3P seller’s identifier for this authorization transaction. This identifier must be unique for all of your authorization transactions.
- **authorization_amount** (*optional ask_sdk_model.interfaces.amazonpay.model.v1.price.Price*) –
- **transaction_timeout** (*optional int*) – The maximum number of minutes allocated for the Authorize operation call to be processed. After this the authorization is automatically declined and you cannot capture funds against the authorization. The default value for Alexa transactions is 0. In order to speed up checkout time for voice users we recommend to not change this value.
- **seller_authorization_note** (*optional str*) – A description for the transaction that is included in emails to the user. Appears only when AuthorizeAndCapture is chosen.
- **soft_descriptor** (*optional str*) – The description to be shown on the user’s payment instrument statement if AuthorizeAndCapture is chosen. Format of soft descriptor sent to the payment processor is “AMZ* <soft descriptor specified here>”. Default is “AMZ*<SELLER_NAME> amzn.com/ pmts WA"”. Maximum length can be 16 characters.

```
attribute_map = {'authorization_amount': 'authorizationAmount', 'authorization_referen
```

```

deserialized_types = {'authorization_amount': 'ask_sdk_model.interfaces.amazonpay.mod
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_attributes module

```

class ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_attributes.BillingAgree

```

Bases: `object`

The merchant can choose to set the attributes specified in the BillingAgreementAttributes.

Parameters

- **platform_id** (*optional* `str`) – Represents the SellerId of the Solution Provider that developed the eCommerce platform. This value is only used by Solution Providers, for whom it is required. It should not be provided by merchants creating their own custom integration. Do not specify the SellerId of the merchant for this request parameter. If you are a merchant, do not enter a PlatformId.
- **seller_note** (*optional* `str`) – Represents a description of the billing agreement that is displayed in emails to the buyer.
- **seller_billing_agreement_attributes** (*optional*)
`ask_sdk_model.interfaces.amazonpay.model.v1.seller_billing_agreement_attributes.SellerBillingAgreementAttributes`
 –
- **billing_agreement_type** (*optional* `ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_type.BillingAgreementType`) –
- **subscription_amount** (*optional* `ask_sdk_model.interfaces.amazonpay.model.v1.price.Price`) –

```

attribute_map = {'billing_agreement_type': 'billingAgreementType', 'platform_id': 'p
deserialized_types = {'billing_agreement_type': 'ask_sdk_model.interfaces.amazonpay.m
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_details module

class ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_details.**BillingAgreement**

Bases: `object`

The result attributes from successful SetupAmazonPay call.

Parameters

- **billing_agreement_id** (*optional* `str`) – Billing agreement id which can be used for one time and recurring purchases
- **creation_timestamp** (*optional* `datetime`) – Time at which billing agreement details created.
- **destination** (*optional* `ask_sdk_model.interfaces.amazonpay.model.v1.destination.Destination`) – The default shipping address of the buyer. Returned if needAmazonShippingAddress is set to true.
- **checkout_language** (*optional* `str`) – Merchant’s preferred language of checkout.
- **release_environment** (*optional* `ask_sdk_model.interfaces.amazonpay.model.v1.release_environment.ReleaseEnvironment`) –
- **billing_agreement_status** (*optional* `ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_status.BillingAgreementStatus`) –

attribute_map = {'billing_agreement_id': 'billingAgreementId', 'billing_agreement_status': 'billingAgreementStatus'}

deserialized_types = {'billing_agreement_id': 'str', 'billing_agreement_status': 'BillingAgreementStatus'}

supports_multiple_types = `False`

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_status module

class ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_status.**BillingAgreementStatus**

Bases: `enum.Enum`

Indicates the current status of the billing agreement. For more information about the State and Reason-Code response elements, see Billing agreement states and reason codes - <https://pay.amazon.com/us/developer/documentation/apireference/201752870>

Allowed enum values: [CANCELED, CLOSED, DRAFT, OPEN, SUSPENDED]

CANCELED = 'CANCELED'

CLOSED = 'CLOSED'

DRAFT = 'DRAFT'

OPEN = 'OPEN'

SUSPENDED = 'SUSPENDED'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_type module

class ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_type.**BillingAgreementType**

Bases: `enum.Enum`

- This is used to specify applicable billing agreement type. * CustomerInitiatedTransaction – customer is present at the time of processing payment for the order. * MerchantInitiatedTransaction – customer is not present at the time of processing payment for the order.

Allowed enum values: [CustomerInitiatedTransaction, MerchantInitiatedTransaction]

CustomerInitiatedTransaction = 'CustomerInitiatedTransaction'

MerchantInitiatedTransaction = 'MerchantInitiatedTransaction'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.amazonpay.model.v1.destination module

```
class ask_sdk_model.interfaces.amazonpay.model.v1.destination.Destination (name=None, com-pany_name=None, ad-dress_line1=None, ad-dress_line2=None, ad-dress_line3=None, city=None, dis-trict_or_county=None, state_or_region=None, postal_code=None, coun-try_code=None, phone=None)
```

Bases: `object`

Destination object containing the details of an Address.

Parameters

- **name** (*optional str*) – The name or business name
- **company_name** (*optional str*) – The company name
- **address_line1** (*optional str*) – The first line of the address. At least one AddressLine (AddressLine1, AddressLine2, or AddressLine3) is required.
- **address_line2** (*optional str*) – The second line of the address. At least one AddressLine (AddressLine1, AddressLine2, or AddressLine3) is required.
- **address_line3** (*optional str*) – The third line of the address. At least one AddressLine (AddressLine1, AddressLine2, or AddressLine3) is required.
- **city** (*optional str*) – The city
- **district_or_county** (*optional str*) – The district or County
- **state_or_region** (*optional str*) – The state or region. This element is free text and can be either a 2-character code, fully spelled out, or abbreviated. Required. Note :- This response element is returned only in the U.S.
- **postal_code** (*optional str*) – The postal code.
- **country_code** (*optional str*) – The country code, in ISO 3166 format
- **phone** (*optional str*) – The phone number

```
attribute_map = {'address_line1': 'addressLine1', 'address_line2': 'addressLine2', 'address_line3': 'addressLine3'}
```

```
deserialized_types = {'address_line1': 'str', 'address_line2': 'str', 'address_line3': 'str'}
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_sdk_model.interfaces.amazonpay.model.v1.payment_action module

class ask_sdk_model.interfaces.amazonpay.model.v1.payment_action.**PaymentAction**

Bases: `enum.Enum`

- This is used to specify applicable payment action. * `Authorize` – you want to confirm the order and authorize a certain amount, but you do not want to capture at this time. * `AuthorizeAndCapture` – you want to confirm the order, authorize for the given amount, and capture the funds.

Allowed enum values: [`Authorize`, `AuthorizeAndCapture`]

Authorize = `'Authorize'`

AuthorizeAndCapture = `'AuthorizeAndCapture'`

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.interfaces.amazonpay.model.v1.price module

class ask_sdk_model.interfaces.amazonpay.model.v1.price.**Price** (*amount=None, cur-
rency_code=None*)

Bases: `object`

This object specifies amount and currency authorized/captured.

Parameters

- **amount** (*optional*) `str` – Amount authorized/captured.
- **currency_code** (*optional*) `str` – Currency code for the amount.

attribute_map = `{'amount': 'amount', 'currency_code': 'currencyCode'}`

deserialized_types = `{'amount': 'str', 'currency_code': 'str'}`

supports_multiple_types = `False`

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.interfaces.amazonpay.model.v1.provider_attributes module

class ask_sdk_model.interfaces.amazonpay.model.v1.provider_attributes.**ProviderAttributes** (*pr
pr*)

Bases: `object`

This is required only for Ecommerce provider (Solution provider) use cases.

Parameters

- **provider_id** (*optional*) `str` – Solution provider ID.

- **provider_credit_list** ((optional) list[ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit.ProviderCredit]) – List of provider credit.

```

attribute_map = {'provider_credit_list': 'providerCreditList', 'provider_id': 'providerId'}
deserialized_types = {'provider_credit_list': 'list[ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit.ProviderCredit]'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit module

```

class ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit.ProviderCredit(provider_id=None, credit=None)

```

Bases: object

Parameters

- **provider_id** ((optional) str) – This is required only for Ecommerce provider (Solution provider) use cases.
- **credit** ((optional) ask_sdk_model.interfaces.amazonpay.model.v1.price.Price) –

```

attribute_map = {'credit': 'credit', 'provider_id': 'providerId'}
deserialized_types = {'credit': 'ask_sdk_model.interfaces.amazonpay.model.v1.price.Price'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.amazonpay.model.v1.release_environment module

```

class ask_sdk_model.interfaces.amazonpay.model.v1.release_environment.ReleaseEnvironment
Bases: enum.Enum

```

Indicates if the order is for a Live (Production) or Sandbox environment.

Allowed enum values: [LIVE, SANDBOX]

LIVE = 'LIVE'

SANDBOX = 'SANDBOX'

```

to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.amazonpay.model.v1.seller_billing_agreement_attributes module

```
class ask_sdk_model.interfaces.amazonpay.model.v1.seller_billing_agreement_attributes.Sell
```

Bases: `object`

Provides more context about the billing agreement that is represented by this Billing Agreement object.

Parameters

- **seller_billing_agreement_id** (*optional* `str`) – The merchant-specified identifier of this billing agreement. At least one request parameter must be specified. Amazon recommends that you use only the following characters: lowercase a-z, uppercase A-Z, numbers 0-9, dash (-), underscore (_).
- **store_name** (*optional* `str`) – The identifier of the store from which the order was placed. This overrides the default value in Seller Central under Settings > Account Settings. It is displayed to the buyer in their emails and transaction history on the Amazon Payments website.
- **custom_information** (*optional* `str`) – Any additional information that you wish to include with this billing agreement. At least one request parameter must be specified.

```
attribute_map = {'custom_information': 'customInformation', 'seller_billing_agreement
```

```
deserialized_types = {'custom_information': 'str', 'seller_billing_agreement_id': 's
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_sdk_model.interfaces.amazonpay.model.v1.seller_order_attributes module

```
class ask_sdk_model.interfaces.amazonpay.model.v1.seller_order_attributes.SellerOrderAttri
```

Bases: `object`

This object includes elements shown to buyers in emails and in their transaction history. See the “SellerOrder-Attributes” section of the Amazon Pay API reference guide for details about this object.

Parameters

- **seller_order_id** (*optional* `str`) – The merchant-specified identifier of this order. This is shown to the buyer in their emails and transaction history on the Amazon Pay website.
- **store_name** (*optional* `str`) – The identifier of the store from which the order was placed. This overrides the default value in Seller Central under Settings > Account Settings. It is displayed to the buyer in their emails and transaction history on the Amazon Payments website.

- **custom_information** (*optional* *str*) – Any additional information that you want to include with this order reference.
- **seller_note** (*optional* *str*) – This represents a description of the order that is displayed in emails to the buyer.

```
attribute_map = {'custom_information': 'customInformation', 'seller_note': 'sellerNo
deserialized_types = {'custom_information': 'str', 'seller_note': 'str', 'seller_ord
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.amazonpay.model.v1.state module

```
class ask_sdk_model.interfaces.amazonpay.model.v1.state.State
```

Bases: `enum.Enum`

Indicates the state that the Authorization object, Capture object, or Refund object is in. For more information see - <https://pay.amazon.com/us/developer/documentation/apireference/201752950>

Allowed enum values: [Pending, Open, Declined, Closed, Completed]

```
Closed = 'Closed'
```

```
Completed = 'Completed'
```

```
Declined = 'Declined'
```

```
Open = 'Open'
```

```
Pending = 'Pending'
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.amazonpay.request package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.interfaces.amazonpay.request.charge_amazon_pay_request module

class ask_sdk_model.interfaces.amazonpay.request.charge_amazon_pay_request.**ChargeAmazonPay**

Bases: `ask_sdk_model.interfaces.amazonpay.model.request.base_amazon_pay_entity.BaseAmazonPayEntity`

Charge Amazon Pay Request Object.

Parameters

- **version** *((optional) str)* – Version of the Amazon Pay Entity. Can be 1 or greater.
- **seller_id** *((optional) str)* – The seller ID (also known as merchant ID). If you are an Ecommerce Provider (Solution Provider), please specify the ID of the merchant, not your provider ID.
- **billing_agreement_id** *((optional) str)* – The payment contract i.e. billing agreement created for the user.
- **payment_action** *((optional) ask_sdk_model.interfaces.amazonpay.model.request.payment_action.PaymentAction)* –
- **authorize_attributes** *((optional) ask_sdk_model.interfaces.amazonpay.model.request.authorize_attributes.AuthorizeAttributes)* –
- **seller_order_attributes** *((optional) ask_sdk_model.interfaces.amazonpay.model.request.seller_order_attributes.SellerOrderAttributes)* –
- **provider_attributes** *((optional) ask_sdk_model.interfaces.amazonpay.model.request.provider_attributes.ProviderAttributes)* –

attribute_map = {'authorize_attributes': 'authorizeAttributes', 'billing_agreement_id

deserialized_types = {'authorize_attributes': 'ask_sdk_model.interfaces.amazonpay.mod

supports_multiple_types = **False**

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.interfaces.amazonpay.request.setup_amazon_pay_request module

class ask_sdk_model.interfaces.amazonpay.request.setup_amazon_pay_request.SetupAmazonPayRequest

Bases: `ask_sdk_model.interfaces.amazonpay.model.request.base_amazon_pay_entity.BaseAmazonPayEntity`

Setup Amazon Pay Request Object.

Parameters

- **version** (*optional str*) – Version of the Amazon Pay Entity. Can be 1 or greater.
- **seller_id** (*optional str*) – The seller ID (also known as merchant ID). If you are an Ecommerce Provider (Solution Provider), please specify the ID of the merchant, not your provider ID.
- **country_of_establishment** (*optional str*) – The country in which the merchant has registered, as an Amazon Payments legal entity.
- **ledger_currency** (*optional str*) – The currency of the merchant’s ledger account.
- **checkout_language** (*optional str*) – The merchant’s preferred language for checkout.
- **billing_agreement_attributes** (*optional ask_sdk_model.interfaces.amazonpay.model.request.billing_agreement_attributes.BillingAgreementAttributes*) –
- **need_amazon_shipping_address** (*bool*) – To receive the default user shipping address in the response, set this parameter to true. Not required if a user shipping address is not required.
- **sandbox_mode** (*bool*) – To test in Sandbox mode, set this parameter to true.
- **sandbox_customer_email_id** (*optional str*) – Use this parameter to create a Sandbox payment object. In order to use this parameter, you first create a Sandbox user account in Seller Central. Then, pass the email address associated with that Sandbox user account.

attribute_map = {'billing_agreement_attributes': 'BillingAgreementAttributes', 'checko

deserialized_types = {'billing_agreement_attributes': 'ask_sdk_model.interfaces.amazon

supports_multiple_types = False

to_dict ()

Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_sdk_model.interfaces.amazonpay.response` package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

`ask_sdk_model.interfaces.amazonpay.response.amazon_pay_error_response` module

class `ask_sdk_model.interfaces.amazonpay.response.amazon_pay_error_response.AmazonPayError`

Bases: `ask_sdk_model.interfaces.amazonpay.v1.amazon_pay_error_response.AmazonPayErrorResponse`

Error response for SetupAmazonPay and ChargeAmazonPay calls.

Parameters

- `error_code` (*optional*) `str` – Error code indicating the succinct cause of error
- `error_message` (*optional*) `str` – Description of the error.

`attribute_map` = {'error_code': 'errorCode', 'error_message': 'errorMessage'}

`deserialized_types` = {'error_code': 'str', 'error_message': 'str'}

`supports_multiple_types` = `False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_sdk_model.interfaces.amazonpay.response.charge_amazon_pay_result` module

class `ask_sdk_model.interfaces.amazonpay.response.charge_amazon_pay_result.ChargeAmazonPay`

Bases: `ask_sdk_model.interfaces.amazonpay.v1.charge_amazon_pay_result.ChargeAmazonPayResult`

Charge Amazon Pay Result Object. It is sent as part of the response to `ChargeAmazonPayRequest`.

Parameters

- `amazon_order_reference_id` *((optional) str)* – The order reference identifier.
- `authorization_details` *((optional) ask_sdk_model.interfaces.amazonpay.model.response.authorization_details.AuthorizationDetails)* –

```
attribute_map = {'amazon_order_reference_id': 'amazonOrderReferenceId', 'authorization_details': 'authorizationDetails'}
deserialized_types = {'amazon_order_reference_id': 'str', 'authorization_details': 'ask_sdk_model.interfaces.amazonpay.model.response.authorization_details.AuthorizationDetails'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
```

`ask_sdk_model.interfaces.amazonpay.response.setup_amazon_pay_result` module

```
class ask_sdk_model.interfaces.amazonpay.response.setup_amazon_pay_result.SetupAmazonPayResult
    Bases: object
```

Setup Amazon Pay Result Object. It is sent as part of the response to SetupAmazonPayRequest.

Parameters `billing_agreement_details` *((optional) ask_sdk_model.interfaces.amazonpay.model.response.billing_agreement_details.BillingAgreementDetails)* –

```
attribute_map = {'billing_agreement_details': 'billingAgreementDetails'}
deserialized_types = {'billing_agreement_details': 'ask_sdk_model.interfaces.amazonpay.model.response.billing_agreement_details.BillingAgreementDetails'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
```

`ask_sdk_model.interfaces.amazonpay.v1` package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.interfaces.amazonpay.v1.amazon_pay_error_response module

class ask_sdk_model.interfaces.amazonpay.v1.amazon_pay_error_response.**AmazonPayErrorResponse**

Bases: `object`

Error response for SetupAmazonPay and ChargeAmazonPay calls.

Parameters

- **error_code** (*optional* `str`) – Error code indicating the succinct cause of error
- **error_message** (*optional* `str`) – Description of the error.

attribute_map = {'error_code': 'errorCode', 'error_message': 'errorMessage'}

deserialized_types = {'error_code': 'str', 'error_message': 'str'}

supports_multiple_types = `False`

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.amazonpay.v1.charge_amazon_pay module

class ask_sdk_model.interfaces.amazonpay.v1.charge_amazon_pay.**ChargeAmazonPay** (*consent_token=None, seller_id=None, billing_agreement_id=None, payment_action=None, authorize_attributes=None, seller_order_attributes=None, provider_attributes=None*)

Bases: `object`

Charge Amazon Pay Request Object

Parameters

- **consent_token** (*optional* `str`) – Authorization token that contains the permissions consented to by the user.
- **seller_id** (*optional* `str`) – The seller ID (also known as merchant ID). If you are an Ecommerce Provider (Solution Provider), please specify the ID of the merchant, not your provider ID.
- **billing_agreement_id** (*optional* `str`) – The payment contract i.e. billing agreement created for the user.
- **payment_action** (*optional* `ask_sdk_model.interfaces.amazonpay.model.v1.payment_action.PaymentAction`) –
- **authorize_attributes** (*optional* `ask_sdk_model.interfaces.amazonpay.model.v1.authorize_attributes.AuthorizeAttributes`) –

- **seller_order_attributes** `((optional) ask_sdk_model.interfaces.amazonpay.model.v1.seller_order_attributes.SellerOrderAttributes)`–
- **provider_attributes** `((optional) ask_sdk_model.interfaces.amazonpay.model.v1.provider_attributes.ProviderAttributes)`–

attribute_map = {'authorize_attributes': 'authorizeAttributes', 'billing_agreement_id': 'billingAgreementId'}

deserialized_types = {'authorize_attributes': 'ask_sdk_model.interfaces.amazonpay.model.v1.authorize_attributes.AuthorizeAttributes', 'billing_agreement_id': 'ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_id.BillingAgreementId'}

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.amazonpay.v1.charge_amazon_pay_result module

class ask_sdk_model.interfaces.amazonpay.v1.charge_amazon_pay_result.ChargeAmazonPayResult

Bases: object

Charge Amazon Pay Result Object. It is sent as part of the response to ChargeAmazonPay request.

Parameters

- **amazon_order_reference_id** `((optional) str)` – The order reference identifier.
- **authorization_details** `((optional) ask_sdk_model.interfaces.amazonpay.model.v1.authorization_details.AuthorizationDetails)`–

attribute_map = {'amazon_order_reference_id': 'amazonOrderReferenceId', 'authorization_details': 'authorizationDetails'}

deserialized_types = {'amazon_order_reference_id': 'str', 'authorization_details': 'ask_sdk_model.interfaces.amazonpay.model.v1.authorization_details.AuthorizationDetails'}

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.amazonpay.v1.setup_amazon_pay module

```
class ask_sdk_model.interfaces.amazonpay.v1.setup_amazon_pay.SetupAmazonPay (consent_token=None, seller_id=None, country_of_establishment=None, ledger_currency=None, checkout_language=None, billing_agreement_attributes=None, need_amazon_shipping_address=False, sandbox_mode=False, sandbox_customer_email_id=None)
```

Bases: `object`

Setup Amazon Pay Request Object

Parameters

- **consent_token** (*optional* `str`) – Authorization token that contains the permissions consented to by the user.
- **seller_id** (*optional* `str`) – The seller ID (also known as merchant ID). If you are an Ecommerce Provider (Solution Provider), please specify the ID of the merchant, not your provider ID.
- **country_of_establishment** (*optional* `str`) – The country in which the merchant has registered, as an Amazon Payments legal entity.
- **ledger_currency** (*optional* `str`) – The currency of the merchant’s ledger account.
- **checkout_language** (*optional* `str`) – The merchant’s preferred language for checkout.
- **billing_agreement_attributes** (*optional* `ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_attributes.BillingAgreementAttributes`) –
- **need_amazon_shipping_address** (*bool*) – To receive the default user shipping address in the response, set this parameter to true. Not required if a user shipping address is not required.
- **sandbox_mode** (*bool*) – To test in Sandbox mode, set this parameter to true.
- **sandbox_customer_email_id** (*optional* `str`) – Use this parameter to create a Sandbox payment object. In order to use this parameter, you first create a Sandbox user account in Seller Central. Then, pass the email address associated with that Sandbox user account.

```
attribute_map = {'billing_agreement_attributes': 'BillingAgreementAttributes', 'checkout_language': 'CheckoutLanguage'}
```

```
deserialized_types = {'billing_agreement_attributes': 'ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_attributes.BillingAgreementAttributes'}
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.amazonpay.v1.setup_amazon_pay_result module

```
class ask_sdk_model.interfaces.amazonpay.v1.setup_amazon_pay_result.SetupAmazonPayResult (bi
    Bases: object

    Setup Amazon Pay Result Object. It is sent as part of the reponse to SetupAmazonPay request.

    Parameters billing_agreement_details          ((optional) ask_sdk_model.
        interfaces.amazonpay.model.v1.billing_agreement_details.
        BillingAgreementDetails)-

    attribute_map = {'billing_agreement_details': 'billingAgreementDetails'}
    deserialized_types = {'billing_agreement_details': 'ask_sdk_model.interfaces.amazonpa
    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model
```

ask_sdk_model.interfaces.audioplayer package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.interfaces.audioplayer.audio_item module

```
class ask_sdk_model.interfaces.audioplayer.audio_item.AudioItem (stream=None,
                                                                    meta-
                                                                    data=None)

    Bases: object

    Parameters

    • stream          ((optional) ask_sdk_model.interfaces.audioplayer.
        stream.Stream)-

    • metadata       ((optional) ask_sdk_model.interfaces.audioplayer.
        audio_item_metadata.AudioItemMetadata)-

    attribute_map = {'metadata': 'metadata', 'stream': 'stream'}
    deserialized_types = {'metadata': 'ask_sdk_model.interfaces.audioplayer.audio_item_me
    supports_multiple_types = False
```

```

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.interfaces.audioplayer.audio_item_metadata module

```

class ask_sdk_model.interfaces.audioplayer.audio_item_metadata.AudioItemMetadata (title=None, subtitle=None, art=None, background_image=None)
    
```

Bases: `object`

Encapsulates the metadata about an AudioItem.

Parameters

- **title** (*optional str*) – An optional title of the audio item.
- **subtitle** (*optional str*) – An optional subtitle of the audio item.
- **art** (*optional ask_sdk_model.interfaces.display.image.Image*) – An optional cover art image for the audio item.
- **background_image** (*optional ask_sdk_model.interfaces.display.image.Image*) – An optional background image for the audio item.

```

attribute_map = {'art': 'art', 'background_image': 'backgroundImage', 'subtitle': 'subtitle'}
deserialized_types = {'art': 'ask_sdk_model.interfaces.display.image.Image', 'background_image': 'ask_sdk_model.interfaces.display.image.Image'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.interfaces.audioplayer.audio_player_interface module

```

class ask_sdk_model.interfaces.audioplayer.audio_player_interface.AudioPlayerInterface
    Bases: object

    attribute_map = {}
    deserialized_types = {}
    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model
    
```

ask_sdk_model.interfaces.audioplayer.audio_player_state module

class ask_sdk_model.interfaces.audioplayer.audio_player_state.**AudioPlayerState** (*offset_in_milliseconds=None, token=None, player_activity=None*)

Bases: `object`

Parameters

- **offset_in_milliseconds** (*optional int*) –
- **token** (*optional str*) –
- **player_activity** (*optional ask_sdk_model.interfaces.audioplayer.player_activity.PlayerActivity*) –

attribute_map = {'offset_in_milliseconds': 'offsetInMilliseconds', 'player_activity': 'playerActivity'}

deserialized_types = {'offset_in_milliseconds': 'int', 'player_activity': 'ask_sdk_model.interfaces.audioplayer.player_activity.PlayerActivity'}

supports_multiple_types = `False`

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.audioplayer.caption_data module

class ask_sdk_model.interfaces.audioplayer.caption_data.**CaptionData** (*content=None, object_type=None*)

Bases: `object`

Parameters

- **content** (*optional str*) – This contains the caption text.
- **object_type** (*optional ask_sdk_model.interfaces.audioplayer.caption_type.CaptionType*) – Type of the caption source.

attribute_map = {'content': 'content', 'object_type': 'type'}

deserialized_types = {'content': 'str', 'object_type': 'ask_sdk_model.interfaces.audioplayer.caption_type.CaptionType'}

supports_multiple_types = `False`

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.audioplayer.caption_type module

class ask_sdk_model.interfaces.audioplayer.caption_type.**CaptionType**

Bases: `enum.Enum`

Allowed enum values: [WEBVTT]


```

WEBVTT = 'WEBVTT'

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.audioplayer.clear_behavior module

```

class ask_sdk_model.interfaces.audioplayer.clear_behavior.ClearBehavior
    Bases: enum.Enum

    Allowed enum values: [CLEAR_ALL, CLEAR_ENQUEUED]

    CLEAR_ALL = 'CLEAR_ALL'

    CLEAR_ENQUEUED = 'CLEAR_ENQUEUED'

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model

```

ask_sdk_model.interfaces.audioplayer.clear_queue_directive module

```

class ask_sdk_model.interfaces.audioplayer.clear_queue_directive.ClearQueueDirective (clear_b
    Bases: ask_sdk_model.directive.Directive

    Parameters clear_behavior ((optional) ask_sdk_model.interfaces.audioplayer.clear_behavior.ClearBehavior)-

    attribute_map = {'clear_behavior': 'clearBehavior', 'object_type': 'type'}

    deserialized_types = {'clear_behavior': 'ask_sdk_model.interfaces.audioplayer.clear_b

    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model

```

ask_sdk_model.interfaces.audioplayer.current_playback_state module

```

class ask_sdk_model.interfaces.audioplayer.current_playback_state.CurrentPlaybackState (offse
    Bases: object
    playe
    to-
    ken=

    Parameters

    • offset_in_milliseconds ((optional) int)-

    • player_activity ((optional) ask_sdk_model.interfaces.audioplayer.player_activity.PlayerActivity)-

```

```

    • token((optional) str)-
attribute_map = {'offset_in_milliseconds': 'offsetInMilliseconds', 'player_activity':
deserialized_types = {'offset_in_milliseconds': 'int', 'player_activity': 'ask_sdk_m
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.audioplayer.error module

```

class ask_sdk_model.interfaces.audioplayer.error.Error (message=None, object
object_type=None)
Bases: object
    Parameters
    • message((optional) str)-
    • object_type ((optional) ask_sdk_model.interfaces.audioplayer.
      error_type.ErrorType)-
attribute_map = {'message': 'message', 'object_type': 'type'}
deserialized_types = {'message': 'str', 'object_type': 'ask_sdk_model.interfaces.aud
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.audioplayer.error_type module

```

class ask_sdk_model.interfaces.audioplayer.error_type.ErrorType
Bases: enum.Enum
Allowed enum values: [MEDIA_ERROR_INTERNAL_DEVICE_ERROR, ME-
DIA_ERROR_INTERNAL_SERVER_ERROR, MEDIA_ERROR_INVALID_REQUEST, ME-
DIA_ERROR_SERVICE_UNAVAILABLE, MEDIA_ERROR_UNKNOWN]
MEDIA_ERROR_INTERNAL_DEVICE_ERROR = 'MEDIA_ERROR_INTERNAL_DEVICE_ERROR'
MEDIA_ERROR_INTERNAL_SERVER_ERROR = 'MEDIA_ERROR_INTERNAL_SERVER_ERROR'
MEDIA_ERROR_INVALID_REQUEST = 'MEDIA_ERROR_INVALID_REQUEST'
MEDIA_ERROR_SERVICE_UNAVAILABLE = 'MEDIA_ERROR_SERVICE_UNAVAILABLE'
MEDIA_ERROR_UNKNOWN = 'MEDIA_ERROR_UNKNOWN'
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.audioplayer.play_behavior module

class ask_sdk_model.interfaces.audioplayer.play_behavior.**PlayBehavior**

Bases: `enum.Enum`

Allowed enum values: [ENQUEUE, REPLACE_ALL, REPLACE_ENQUEUED]

ENQUEUE = 'ENQUEUE'

REPLACE_ALL = 'REPLACE_ALL'

REPLACE_ENQUEUED = 'REPLACE_ENQUEUED'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.audioplayer.play_directive module

class ask_sdk_model.interfaces.audioplayer.play_directive.**PlayDirective** (*play_behavior=None, audio_item=None*)

Bases: `ask_sdk_model.directive.Directive`

Parameters

- **play_behavior** ((*optional*) `ask_sdk_model.interfaces.audioplayer.play_behavior.PlayBehavior`)–
- **audio_item** ((*optional*) `ask_sdk_model.interfaces.audioplayer.audio_item.AudioItem`)–

attribute_map = {'audio_item': 'audioItem', 'object_type': 'type', 'play_behavior':

deserialized_types = {'audio_item': 'ask_sdk_model.interfaces.audioplayer.audio_item.

supports_multiple_types = **False**

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.audioplayer.playback_failed_request module

class ask_sdk_model.interfaces.audioplayer.playback_failed_request.**PlaybackFailedRequest** (re

Bases: `ask_sdk_model.request.Request`

Parameters

- **request_id** ((*optional*) *str*) – Represents the unique identifier for the specific request.
- **timestamp** ((*optional*) *datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** ((*optional*) *str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **current_playback_state** ((*optional*) `ask_sdk_model.interfaces.audioplayer.current_playback_state.CurrentPlaybackState`) –
- **error** ((*optional*) `ask_sdk_model.interfaces.audioplayer.error.Error`) –
- **token** ((*optional*) *str*) –

`attribute_map = {'current_playback_state': 'currentPlaybackState', 'error': 'error',`

`deserialized_types = {'current_playback_state': 'ask_sdk_model.interfaces.audioplayer`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

ask_sdk_model.interfaces.audioplayer.playback_finished_request module

class ask_sdk_model.interfaces.audioplayer.playback_finished_request.**PlaybackFinishedRequest**

Bases: `ask_sdk_model.request.Request`

Parameters

- **request_id** (*optional* *str*) – Represents the unique identifier for the specific request.
- **timestamp** (*optional* *datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional* *str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **offset_in_milliseconds** (*optional* *int*) –
- **token** (*optional* *str*) –

```
attribute_map = {'locale': 'locale', 'object_type': 'type', 'offset_in_milliseconds'
```

```
deserialized_types = {'locale': 'str', 'object_type': 'str', 'offset_in_milliseconds'
```

```
supports_multiple_types = False
```

```
to_dict()
```

```
Returns the model properties as a dict
```

```
to_str()
```

```
Returns the string representation of the model
```

ask_sdk_model.interfaces.audioplayer.playback_nearly_finished_request module

```
class ask_sdk_model.interfaces.audioplayer.playback_nearly_finished_request.PlaybackNearlyFinishedRequest
```

Bases: `ask_sdk_model.request.Request`

Parameters

- **request_id** (*optional* *str*) – Represents the unique identifier for the specific request.
- **timestamp** (*optional* *datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional* *str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **offset_in_milliseconds** (*optional* *int*) –
- **token** (*optional* *str*) –

```
attribute_map = {'locale': 'locale', 'object_type': 'type', 'offset_in_milliseconds'
```

```
deserialized_types = {'locale': 'str', 'object_type': 'str', 'offset_in_milliseconds'
```

```
supports_multiple_types = False
```

```
to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
```

`ask_sdk_model.interfaces.audioplayer.playback_started_request` module

```
class ask_sdk_model.interfaces.audioplayer.playback_started_request.PlaybackStartedRequest
```

Bases: `ask_sdk_model.request.Request`

Parameters

- **request_id** (*optional str*) – Represents the unique identifier for the specific request.
- **timestamp** (*optional datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **offset_in_milliseconds** (*optional int*) –
- **token** (*optional str*) –

```
attribute_map = {'locale': 'locale', 'object_type': 'type', 'offset_in_milliseconds'
deserialized_types = {'locale': 'str', 'object_type': 'str', 'offset_in_milliseconds'
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
```

`ask_sdk_model.interfaces.audioplayer.playback_stopped_request` module

```
class ask_sdk_model.interfaces.audioplayer.playback_stopped_request.PlaybackStoppedRequest
```

Bases: `ask_sdk_model.request.Request`

Parameters

- **request_id** (*optional str*) – Represents the unique identifier for the specific request.
- **timestamp** (*optional datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **offset_in_milliseconds** (*optional int*) –
- **token** (*optional str*) –

```
attribute_map = {'locale': 'locale', 'object_type': 'type', 'offset_in_milliseconds'
```

```
deserialized_types = {'locale': 'str', 'object_type': 'str', 'offset_in_milliseconds'
```

```
supports_multiple_types = False
```

```
to_dict ()
```

```
    Returns the model properties as a dict
```

```
to_str ()
```

```
    Returns the string representation of the model
```

ask_sdk_model.interfaces.audioplayer.player_activity module

```
class ask_sdk_model.interfaces.audioplayer.player_activity.PlayerActivity
```

```
    Bases: enum.Enum
```

```
    Allowed enum values: [PLAYING, PAUSED, FINISHED, BUFFER_UNDERRUN, IDLE, STOPPED]
```

```
BUFFER_UNDERRUN = 'BUFFER_UNDERRUN'
```

```
FINISHED = 'FINISHED'
```

```
IDLE = 'IDLE'
```

```
PAUSED = 'PAUSED'
```

```
PLAYING = 'PLAYING'
```

```
STOPPED = 'STOPPED'
```

```
to_dict ()
```

```
    Returns the model properties as a dict
```

```
to_str ()
```

```
    Returns the string representation of the model
```

ask_sdk_model.interfaces.audioplayer.stop_directive module

```
class ask_sdk_model.interfaces.audioplayer.stop_directive.StopDirective
```

```
    Bases: ask_sdk_model.directive.Directive
```

```
attribute_map = {'object_type': 'type'}
```

```
deserialized_types = {'object_type': 'str'}
```

```
supports_multiple_types = False
```

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_sdk_model.interfaces.audioplayer.stream` module

class `ask_sdk_model.interfaces.audioplayer.stream.Stream`(*expected_previous_token=None*,
token=None,
url=None, *offset_in_milliseconds=None*,
caption_data=None)

Bases: `object`

Parameters

- **expected_previous_token**(*optional str*)-
- **token**(*optional str*)-
- **url**(*optional str*)-
- **offset_in_milliseconds**(*optional int*)-
- **caption_data** (*optional ask_sdk_model.interfaces.audioplayer.caption_data.CaptionData*)-

`attribute_map` = {'caption_data': 'captionData', 'expected_previous_token': 'expected'

`deserialized_types` = {'caption_data': 'ask_sdk_model.interfaces.audioplayer.caption_d

`supports_multiple_types` = `False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_sdk_model.interfaces.automotive` package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

`ask_sdk_model.interfaces.automotive.automotive_state` module

class `ask_sdk_model.interfaces.automotive.automotive_state.AutomotiveState`
Bases: `object`

This object contains the automotive specific information of the device


```

attribute_map = {}
deserialized_types = {}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.connections package

Subpackages

ask_sdk_model.interfaces.connections.entities package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.interfaces.connections.entities.base_entity module

```

class ask_sdk_model.interfaces.connections.entities.base_entity.BaseEntity(object_type=None,
                                                                              version=None)

```

Bases: `object`

Parameters

- **object_type** (*optional*) `str` –
- **version** (*optional*) `str` – version of the request

Note: This is an abstract class. Use the following mapping, to figure out the model class to be instantiated, that sets `@type` variable.

PostalAddress: `ask_sdk_model.interfaces.connections.entities.postal_address.PostalAddress`,

Restaurant: `ask_sdk_model.interfaces.connections.entities.restaurant.Restaurant`

```

attribute_map = {'object_type': '@type', 'version': '@version'}

```

```

deserialized_types = {'object_type': 'str', 'version': 'str'}
discriminator_value_class_map = {'PostalAddress': 'ask_sdk_model.interfaces.connections.entities.postal_address.PostalAddress'}
classmethod get_real_child_model(data)
    Returns the real base class specified by the discriminator
json_discriminator_key = '@type'
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.connections.entities.postal_address module

```

class ask_sdk_model.interfaces.connections.entities.postal_address.PostalAddress(version=None, street_address=None, locality=None, region=None, postal_code=None, country=None)

```

Bases: *ask_sdk_model.interfaces.connections.entities.base_entity.BaseEntity*

Postal Address

Parameters

- **version** (*optional str*) – version of the request
- **street_address** (*optional str*) – street address
- **locality** (*optional str*) – locality/city
- **region** (*optional str*) – state/region
- **postal_code** (*optional str*) – postal/zip code
- **country** (*optional str*) – country

```

attribute_map = {'country': 'country', 'locality': 'locality', 'object_type': '@type'}
deserialized_types = {'country': 'str', 'locality': 'str', 'object_type': 'str', 'postal_code': 'str', 'region': 'str', 'street_address': 'str', 'version': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.connections.entities.restaurant module

```
class ask_sdk_model.interfaces.connections.entities.restaurant.Restaurant (version=None,
                                                                    name=None,
                                                                    lo-
                                                                    ca-
                                                                    tion=None)
```

Bases: `ask_sdk_model.interfaces.connections.entities.base_entity.BaseEntity`

Restaurant entity

Parameters

- **version** (*optional*) *str* – version of the request
- **name** (*optional*) *str* – name of the restaurant
- **location** (*optional*) `ask_sdk_model.interfaces.connections.entities.postal_address.PostalAddress` – location

```
attribute_map = {'location': 'location', 'name': 'name', 'object_type': '@type', 'v
```

```
deserialized_types = {'location': 'ask_sdk_model.interfaces.connections.entities.post
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_sdk_model.interfaces.connections.requests package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.interfaces.connections.requests.base_request module

```
class ask_sdk_model.interfaces.connections.requests.base_request.BaseRequest (object_type=None,
                                                                    ver-
                                                                    sion=None)
```

Bases: `object`

Parameters

- **object_type** (*optional*) *str* –
- **version** (*optional*) *str* – version of the request

Note: This is an abstract class. Use the following mapping, to figure out the model class to be instantiated, that sets @type variable.

ScheduleFoodEstablishmentReservationRequest: `ask_sdk_model.interfaces.connections.requests.schedule_food_establishment_reservation_request.ScheduleFoodEstablishmentReservationRequest`,

PrintImageRequest: `ask_sdk_model.interfaces.connections.requests.print_image_request.PrintImageRequest`,

PrintWebPageRequest: `ask_sdk_model.interfaces.connections.requests.print_web_page_request.PrintWebPageRequest`,

PrintPDFRequest: `ask_sdk_model.interfaces.connections.requests.print_pdf_request.PrintPDFRequest`,

ScheduleTaxiReservationRequest: `ask_sdk_model.interfaces.connections.requests.schedule_taxi_reservation_request.ScheduleTaxiReservationRequest`

```
attribute_map = {'object_type': '@type', 'version': '@version'}
```

```
deserialized_types = {'object_type': 'str', 'version': 'str'}
```

```
discriminator_value_class_map = {'PrintImageRequest': 'ask_sdk_model.interfaces.conne
```

```
classmethod get_real_child_model (data)
```

```
    Returns the real base class specified by the discriminator
```

```
json_discriminator_key = '@type'
```

```
supports_multiple_types = False
```

```
to_dict ()
```

```
    Returns the model properties as a dict
```

```
to_str ()
```

```
    Returns the string representation of the model
```

`ask_sdk_model.interfaces.connections.requests.print_image_request` module

```
class ask_sdk_model.interfaces.connections.requests.print_image_request.PrintImageRequest (
```

```
Bases:          ask_sdk_model.interfaces.connections.requests.base_request.  
BaseRequest
```

Payload Request object for PrintImage

Parameters

- **version**((*optional*) *str*) – version of the request
- **title**((*optional*) *str*) – title of the image
- **url**((*optional*) *str*) – url of the image
- **description**((*optional*) *str*) – description of the image
- **image_type**((*optional*) *str*) – type of the image

`attribute_map = {'description': 'description', 'image_type': 'imageType', 'object_type': 'PrintImageRequest'}`

`deserialized_types = {'description': 'str', 'image_type': 'str', 'object_type': 'str'}`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

ask_sdk_model.interfaces.connections.requests.print_pdf_request module

`class ask_sdk_model.interfaces.connections.requests.print_pdf_request.PrintPDFRequest` (*version*, *title*, *url*, *description*)

Bases: `ask_sdk_model.interfaces.connections.requests.base_request.BaseRequest`

Payload Request object for PrintPDF

Parameters

- **version**((*optional*) *str*) – version of the request
- **title**((*optional*) *str*) – title of the image
- **url**((*optional*) *str*) – url of the image
- **description**((*optional*) *str*) – description of the image

`attribute_map = {'description': 'description', 'object_type': '@type', 'title': 'title'}`

`deserialized_types = {'description': 'str', 'object_type': 'str', 'title': 'str'}`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

ask_sdk_model.interfaces.connections.requests.print_web_page_request module

class ask_sdk_model.interfaces.connections.requests.print_web_page_request.**PrintWebPageRequest**

Bases: `ask_sdk_model.interfaces.connections.requests.base_request.BaseRequest`

Payload Request object for PrintWebPage

Parameters

- **version**((optional) *str*) – version of the request
- **title**((optional) *str*) – title of the image
- **url**((optional) *str*) – url of the image
- **description**((optional) *str*) – description of the image

attribute_map = {'description': 'description', 'object_type': '@type', 'title': 'title'}

deserialized_types = {'description': 'str', 'object_type': 'str', 'title': 'str', 'url': 'str'}

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.connections.requests.schedule_food_establishment_reservation_request module

class ask_sdk_model.interfaces.connections.requests.schedule_food_establishment_reservation_request.**ScheduleFoodEstablishmentReservationRequest**

Bases: `ask_sdk_model.interfaces.connections.requests.base_request.BaseRequest`

ScheduleFoodEstablishmentReservationRequest for booking restaurant reservation

Parameters

- **version**((optional) *str*) – version of the request
- **start_time**((optional) *str*) – start time of the reservation
- **party_size**((optional) *str*) – party size
- **restaurant** ((optional) `ask_sdk_model.interfaces.connections.entities.restaurant.Restaurant`) – restaurant

attribute_map = {'object_type': '@type', 'party_size': 'partySize', 'restaurant': 'restaurant', 'start_time': 'startTime'}

deserialized_types = {'object_type': 'str', 'party_size': 'str', 'restaurant': 'ask_sdk_model.interfaces.connections.entities.restaurant.Restaurant', 'start_time': 'str'}

```
supports_multiple_types = False
```

```
to_dict()  
    Returns the model properties as a dict
```

```
to_str()  
    Returns the string representation of the model
```

`ask_sdk_model.interfaces.connections.requests.schedule_taxi_reservation_request` module

```
class ask_sdk_model.interfaces.connections.requests.schedule_taxi_reservation_request.Sche
```

```
Bases:      ask_sdk_model.interfaces.connections.requests.base_request.BaseRequest
```

ScheduleTaxiReservationRequest for booking taxi reservation

Parameters

- **version** (*optional str*) – version of the request
- **pickup_time** (*optional str*) – pickup time
- **party_size** (*optional str*) – party size
- **pickup_location** (*optional ask_sdk_model.interfaces.connections.entities.postal_address.PostalAddress*) – pick up location
- **drop_off_location** (*optional ask_sdk_model.interfaces.connections.entities.postal_address.PostalAddress*) – drop off location

```
attribute_map = {'drop_off_location': 'dropOffLocation', 'object_type': '@type', 'pa
```

```
deserialized_types = {'drop_off_location': 'ask_sdk_model.interfaces.connections.ent
```

```
supports_multiple_types = False
```

```
to_dict()  
    Returns the model properties as a dict
```

```
to_str()  
    Returns the string representation of the model
```

`ask_sdk_model.interfaces.connections.v1` package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.interfaces.connections.v1.start_connection_directive module

class ask_sdk_model.interfaces.connections.v1.start_connection_directive.**StartConnectionDirective**

Bases: *ask_sdk_model.directive.Directive*

This is the directive that a skill can send as part of their response to a session based request to start a connection. A response will be returned to the skill when the connection is handled.

Parameters

- **uri** (*optional*) *str* – This defines the name and version of connection that the requester is trying to send. The format of the uri should follow this pattern: `connection://connectionName/connectionVersion`. Invalid uri will cause an error which will be sent back to the requester.
- **input** (*optional*) *dict(str, object)* – This is the input to the connection that the requester is trying to send. It is predefined by the handler of the connection. If the input format is incorrect, an error will be sent to to the requester.
- **token** (*optional*) *str* – This is an echo back string that requester will receive it when it gets resumed. It is never sent to the handler of the connection.

```
attribute_map = {'input': 'input', 'object_type': 'type', 'token': 'token', 'uri':
```

```
deserialized_types = {'input': 'dict(str, object)', 'object_type': 'str', 'token':
```

```
supports_multiple_types = False
```

```
to_dict()
```

```
    Returns the model properties as a dict
```

```
to_str()
```

```
    Returns the string representation of the model
```

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.interfaces.connections.connections_request module

```
class ask_sdk_model.interfaces.connections.connections_request.ConnectionsRequest (request_id=None, timestamp=None, locale=None, name=None, payload=None)
```

Bases: `ask_sdk_model.request.Request`

This is the request object that a skill will receive as a result of `Connections.SendRequest` directive from sender skill.

Parameters

- **request_id** (*optional str*) – Represents the unique identifier for the specific request.
- **timestamp** (*optional datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **name** (*optional str*) – Name of the action sent by the referrer skill.
- **payload** (*optional dict(str, object)*) – This is an object sent between the two skills for processing a `ConnectionsRequest` or `ConnectionsResponse`. This will always be a valid payload based on Action schema for the requester action.

```
attribute_map = {'locale': 'locale', 'name': 'name', 'object_type': 'type', 'payload': 'payload'}
```

```
deserialized_types = {'locale': 'str', 'name': 'str', 'object_type': 'str', 'payload': 'object'}
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_sdk_model.interfaces.connections.connections_response module

```
class ask_sdk_model.interfaces.connections.connections_response.ConnectionsResponse (request_id,
timestamp=None,
locale=None,
status=None,
name=None,
payload=None,
token=None)
```

Bases: `ask_sdk_model.request.Request`

This is the request object that a skill will receive as a result of `Connections.SendResponse` directive from referrer skill.

Parameters

- **request_id** (*optional* `str`) – Represents the unique identifier for the specific request.
- **timestamp** (*optional* `datetime`) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional* `str`) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **status** (*optional* `ask_sdk_model.interfaces.connections.connections_status.ConnectionsStatus`) –
- **name** (*optional* `str`) – Name of the action for which response is received.
- **payload** (*optional* `dict(str, object)`) – This is an object sent from referrer skill as is.
- **token** (*optional* `str`) – This is the token that the skill originally sent with the `ConnectionsSendRequest` directive.

```
attribute_map = {'locale': 'locale', 'name': 'name', 'object_type': 'type', 'payload': 'payload'}
```

```
deserialized_types = {'locale': 'str', 'name': 'str', 'object_type': 'str', 'payload': 'dict'}
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_sdk_model.interfaces.connections.connections_status module

```
class ask_sdk_model.interfaces.connections.connections_status.ConnectionsStatus (code=None,
message=None)
```

Bases: `object`

Connection Status indicates a high level understanding of the result of ConnectionsRequest.

Parameters

- **code** (*optional str*) – This is a code signifying the status of the request sent by the skill. Protocol adheres to HTTP status codes.
- **message** (*optional str*) – This is a message that goes along with response code that can provide more information about what occurred

attribute_map = {'code': 'code', 'message': 'message'}

deserialized_types = {'code': 'str', 'message': 'str'}

supports_multiple_types = False

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.interfaces.connections.send_request_directive module

class ask_sdk_model.interfaces.connections.send_request_directive.**SendRequestDirective** (*name*

pay-
load-
to-
ken=

Bases: *ask_sdk_model.directive.Directive*

This is the directive that a skill can send as part of their response to a session based request to execute a predefined Connections. This will also return a result to the referring skill. (No Guarantee response will be returned)

Parameters

- **name** (*optional str*) – This defines the name of the Connection skill is trying to execute. It must be a valid and supported Connection name.
- **payload** (*optional dict(str, object)*) – This is an object sent between the two skills for processing a ConnectionsRequest or ConnectionsResponse. The contract for the object is based on the schema of the Action used in the SendRequestDirective. Invalid payloads will result in errors sent back to the referrer.
- **token** (*optional str*) – This is an echo back string that skills send when during Connections.SendRequest directive. They will receive it when they get the ConnectionsResponse. It is never sent to the skill handling the request.

attribute_map = {'name': 'name', 'object_type': 'type', 'payload': 'payload', 'token': 'token'}

deserialized_types = {'name': 'str', 'object_type': 'str', 'payload': 'dict(str, ob

supports_multiple_types = False

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.interfaces.connections.send_response_directive module

class ask_sdk_model.interfaces.connections.send_response_directive.**SendResponseDirective** (*status*, *payload*)

Bases: *ask_sdk_model.directive.Directive*

This is the directive that a skill can send as part of their response to a session based request to return a response to ConnectionsRequest.

Parameters

- **status** ((*optional*) *ask_sdk_model.interfaces.connections.connections_status.ConnectionsStatus*) –
- **payload** ((*optional*) *dict(str, object)*) – This is an object sent to referrer skill as is.

attribute_map = {'object_type': 'type', 'payload': 'payload', 'status': 'status'}

deserialized_types = {'object_type': 'str', 'payload': 'dict(str, object)', 'status': 'ConnectionsStatus'}

supports_multiple_types = **False**

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.custom_interface_controller package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.interfaces.custom_interface_controller.endpoint module

class ask_sdk_model.interfaces.custom_interface_controller.endpoint.**Endpoint** (*endpoint_id=None*)

Bases: *object*

The endpoint of a gadget.

Parameters **endpoint_id** ((*optional*) *str*) – The endpoint ID of the gadget.

attribute_map = {'endpoint_id': 'endpointId'}

deserialized_types = {'endpoint_id': 'str'}

supports_multiple_types = **False**

to_dict()

Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_sdk_model.interfaces.custom_interface_controller.event` module

class `ask_sdk_model.interfaces.custom_interface_controller.event.Event` (*header=None, payload=None, endpoint=None*)

Bases: `object`

An Event object defining a single event sent by an endpoint

Parameters

- **header** (*(optional) ask_sdk_model.interfaces.custom_interface_controller.header.Header*) – The object that contains the header of the event.
- **payload** (*(optional) object*) – The free form JSON object.
- **endpoint** (*(optional) ask_sdk_model.interfaces.custom_interface_controller.endpoint.Endpoint*) – Identifies where the event originated from.

`attribute_map = {'endpoint': 'endpoint', 'header': 'header', 'payload': 'payload'}`

`deserialized_types = {'endpoint': 'ask_sdk_model.interfaces.custom_interface_controller.endpoint.Endpoint'}`

`supports_multiple_types = False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_sdk_model.interfaces.custom_interface_controller.event_filter` module

class `ask_sdk_model.interfaces.custom_interface_controller.event_filter.EventFilter` (*filter_expression, filter_match_action*)

Bases: `object`

Defines the Jsonlogic event filter expression and its corresponding match action. This filter is applied to all events during the event handler’s duration. Events that are rejected by the filter expression are not sent to the skill.

Parameters

- **filter_expression** (*(optional) object*) – The JSON object that represents the Jsonlogic expression against which the events are evaluated. If this expression is satisfied, the corresponding match action is performed.
- **filter_match_action** (*(optional) ask_sdk_model.interfaces.custom_interface_controller.filter_match_action.FilterMatchAction*) –

`attribute_map = {'filter_expression': 'filterExpression', 'filter_match_action': 'filterMatchAction'}`

```

deserialized_types = {'filter_expression': 'object', 'filter_match_action': 'ask_sdk_model.interfaces.custom_interface_controller.event.Event'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.custom_interface_controller.events_received_request module

```
class ask_sdk_model.interfaces.custom_interface_controller.events_received_request.EventsReceivedRequest
```

Bases: `ask_sdk_model.request.Request`

Skill receives this type of event when an event meets the filter conditions provided in the StartEventHandlerDirective.

Parameters

- **request_id** (*optional* `str`) – Represents the unique identifier for the specific request.
- **timestamp** (*optional* `datetime`) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional* `str`) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **token** (*optional* `str`) – Unique identifier associated with the Event Handler that dispatched this event.
- **events** (*optional* `list[ask_sdk_model.interfaces.custom_interface_controller.event.Event]`) – A list of events that meet the filter criteria.

```

attribute_map = {'events': 'events', 'locale': 'locale', 'object_type': 'type', 'request_id': 'request_id', 'timestamp': 'timestamp', 'token': 'token', 'events': 'events'}
deserialized_types = {'events': 'list[ask_sdk_model.interfaces.custom_interface_controller.event.Event]'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.custom_interface_controller.expiration module

class ask_sdk_model.interfaces.custom_interface_controller.expiration.**Expiration** (*duration_in_milliseconds*, *expiration_payload*)

Bases: `object`

This object defines the duration of the Event Handler and the optional JSON payload that is delivered to the skill when the timer expires.

Parameters

- **duration_in_milliseconds** (*optional int*) – The length of time, in milliseconds, for which events from connected gadgets will be passed to the skill. Your skill will continue to receive events until this duration expires or the event handler is otherwise stopped.
- **expiration_payload** (*optional object*) – The payload that was defined in the StartEventHandlerDirective. The skill will receive if and only if the Event Handler duration expired.

attribute_map = {'duration_in_milliseconds': 'durationInMilliseconds', 'expiration_payload': 'expirationPayload'}

deserialized_types = {'duration_in_milliseconds': 'int', 'expiration_payload': 'object'}

supports_multiple_types = **False**

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.interfaces.custom_interface_controller.expired_request module

class ask_sdk_model.interfaces.custom_interface_controller.expired_request.**ExpiredRequest** (*request_id*, *timestamp*)

Bases: `ask_sdk_model.request.Request`

This is the event received by the skill at expiry of an Event Handler.

Parameters

- **request_id** (*optional str*) – Represents the unique identifier for the specific request.
- **timestamp** (*optional datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.

- **locale** (*optional str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **token** (*optional str*) – The unique token specified by the StartEventHandlerDirective.
- **expiration_payload** (*optional object*) – The free form JSON object that the skill will receive if and only if the Event Handler duration expired.

```
attribute_map = {'expiration_payload': 'expirationPayload', 'locale': 'locale', 'obj
deserialized_types = {'expiration_payload': 'object', 'locale': 'str', 'object_type'
supports_multiple_types = False
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.custom_interface_controller.filter_match_action module

```
class ask_sdk_model.interfaces.custom_interface_controller.filter_match_action.FilterMatchAction
    Bases: enum.Enum
```

The behavior to be performed by the platform on a successful filter expression match.

Allowed enum values: [SEND_AND_TERMINATE, SEND]

```
SEND = 'SEND'
```

```
SEND_AND_TERMINATE = 'SEND_AND_TERMINATE'
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.custom_interface_controller.header module

```
class ask_sdk_model.interfaces.custom_interface_controller.header.Header(namespace=None,
    name=None)
```

Bases: object

Endpoint Event header

Parameters

- **namespace** (*optional str*) – The developer-defined namespace for the custom interface.
- **name** (*optional str*) – The developer-defined name of the custom interface.

```
attribute_map = {'name': 'name', 'namespace': 'namespace'}
```

```
deserialized_types = {'name': 'str', 'namespace': 'str'}
```

```
supports_multiple_types = False
```

```
to_dict()
    Returns the model properties as a dict
```


`to_str()`
Returns the string representation of the model

`ask_sdk_model.interfaces.custom_interface_controller.send_directive_directive` module

class `ask_sdk_model.interfaces.custom_interface_controller.send_directive_directive.SendDirective`

Bases: `ask_sdk_model.directive.Directive`

The directive to be delivered to the gadgets. Each directive is targeted to one gadget (that is, one endpointId). To target the same directive to multiple gadgets, include one directive for each gadget in the response.

Parameters

- **header** `((optional) ask_sdk_model.interfaces.custom_interface_controller.header.Header)` – The object that contains the header of the directive.
- **payload** `((optional) object)` – The free form JSON object.
- **endpoint** `((optional) ask_sdk_model.interfaces.custom_interface_controller.endpoint.Endpoint)` – Identifies the gadget where the directive should be sent to. Each directive is targeted to one gadget (that is, one endpointId). If the same directive is be sent to multiple gadgets, include one directive for each gadget in the response.

```
attribute_map = {'endpoint': 'endpoint', 'header': 'header', 'object_type': 'type',
deserialized_types = {'endpoint': 'ask_sdk_model.interfaces.custom_interface_controll
supports_multiple_types = False
```

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_sdk_model.interfaces.custom_interface_controller.start_event_handler_directive` module

class `ask_sdk_model.interfaces.custom_interface_controller.start_event_handler_directive.StartEventHandlerDirective`

Bases: `ask_sdk_model.directive.Directive`

This directive configures and starts an event handler. This will enable the skill to receive Custom Events. A skill can only have one active Event Handler at a time.

Parameters

- **token** `((optional) str)` – A unique string to identify the Event Handler. This identifier is associated with all events dispatched by the Event Handler while it is active.

- **event_filter** ((*optional*) ask_sdk_model.interfaces.custom_interface_controller.event_filter.EventFilter)–
- **expiration** ((*optional*) ask_sdk_model.interfaces.custom_interface_controller.expiration.Expiration)–

```

attribute_map = {'event_filter': 'eventFilter', 'expiration': 'expiration', 'object_
deserialized_types = {'event_filter': 'ask_sdk_model.interfaces.custom_interface_cont
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.custom_interface_controller.stop_event_handler_directive module

```

class ask_sdk_model.interfaces.custom_interface_controller.stop_event_handler_directive.St
Bases: ask_sdk_model.directive.Directive

```

This directive stops a running Event Handler associated with the provided token. The Expiration payload will not be sent if this executed before the Event Handler duration expired.

Parameters **token** ((*optional*) *str*)– Unique identifier required to close the Event Handler. This token must match the token used in the StartEventHandlerDirective.

```

attribute_map = {'object_type': 'type', 'token': 'token'}
deserialized_types = {'object_type': 'str', 'token': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.display package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.interfaces.display.back_button_behavior module

```

class ask_sdk_model.interfaces.display.back_button_behavior.BackButtonBehavior
Bases: enum.Enum

```

Allowed enum values: [HIDDEN, VISIBLE]

HIDDEN = 'HIDDEN'

VISIBLE = 'VISIBLE'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.display.body_template1 module

```
class ask_sdk_model.interfaces.display.body_template1.BodyTemplate1 (token=None,
                                                                    back_button=None,
                                                                    back-
                                                                    ground_image=None,
                                                                    ti-
                                                                    tle=None,
                                                                    text_content=None)
```

Bases: *ask_sdk_model.interfaces.display.template.Template*

Parameters

- **token** (*(optional) str*)-
- **back_button** (*(optional) ask_sdk_model.interfaces.display.back_button_behavior.BackButtonBehavior*)-
- **background_image** (*(optional) ask_sdk_model.interfaces.display.image.Image*)-
- **title** (*(optional) str*)-
- **text_content** (*(optional) ask_sdk_model.interfaces.display.text_content.TextContent*)-

attribute_map = {'back_button': 'backButton', 'background_image': 'backgroundImage',

deserialized_types = {'back_button': 'ask_sdk_model.interfaces.display.back_button_be

supports_multiple_types = **False**

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.display.body_template2 module

```
class ask_sdk_model.interfaces.display.body_template2.BodyTemplate2(token=None,
                                                                back_button=None,
                                                                back-
                                                                ground_image=None,
                                                                im-
                                                                age=None,
                                                                ti-
                                                                tle=None,
                                                                text_content=None)
```

Bases: `ask_sdk_model.interfaces.display.template.Template`

Parameters

- **token** *((optional) str)*–
- **back_button** *((optional) ask_sdk_model.interfaces.display.back_button_behavior.BackButtonBehavior)*–
- **background_image** *((optional) ask_sdk_model.interfaces.display.image.Image)*–
- **image** *((optional) ask_sdk_model.interfaces.display.image.Image)*–
- **title** *((optional) str)*–
- **text_content** *((optional) ask_sdk_model.interfaces.display.text_content.TextContent)*–

```
attribute_map = {'back_button': 'backButton', 'background_image': 'backgroundImage',
```

```
deserialized_types = {'back_button': 'ask_sdk_model.interfaces.display.back_button_be
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_sdk_model.interfaces.display.body_template3 module

```
class ask_sdk_model.interfaces.display.body_template3.BodyTemplate3(token=None,
                                                                back_button=None,
                                                                back-
                                                                ground_image=None,
                                                                im-
                                                                age=None,
                                                                ti-
                                                                tle=None,
                                                                text_content=None)
```

Bases: `ask_sdk_model.interfaces.display.template.Template`

Parameters

- **token** *((optional) str)*–

- **back_button** ((optional) ask_sdk_model.interfaces.display.back_button_behavior.BackButtonBehavior)-
- **background_image** ((optional) ask_sdk_model.interfaces.display.image.Image)-
- **image** ((optional) ask_sdk_model.interfaces.display.image.Image)-
- **title**((optional) str)-
- **text_content** ((optional) ask_sdk_model.interfaces.display.text_content.TextContent)-

attribute_map = {'back_button': 'backButton', 'background_image': 'backgroundImage',

deserialized_types = {'back_button': 'ask_sdk_model.interfaces.display.back_button_be

supports_multiple_types = False

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.interfaces.display.body_template6 module

```
class ask_sdk_model.interfaces.display.body_template6.BodyTemplate6 (token=None,
back_button=None,
back-
ground_image=None,
text_content=None,
im-
age=None)
```

Bases: *ask_sdk_model.interfaces.display.template.Template*

Parameters

- **token**((optional) str)-
- **back_button** ((optional) ask_sdk_model.interfaces.display.back_button_behavior.BackButtonBehavior)-
- **background_image** ((optional) ask_sdk_model.interfaces.display.image.Image)-
- **text_content** ((optional) ask_sdk_model.interfaces.display.text_content.TextContent)-
- **image** ((optional) ask_sdk_model.interfaces.display.image.Image)-

attribute_map = {'back_button': 'backButton', 'background_image': 'backgroundImage',

deserialized_types = {'back_button': 'ask_sdk_model.interfaces.display.back_button_be

supports_multiple_types = False

to_dict ()

Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_sdk_model.interfaces.display.body_template7` module

```
class ask_sdk_model.interfaces.display.body_template7.BodyTemplate7 (token=None,
                                                                    back_button=None,
                                                                    ti-
                                                                    tle=None,
                                                                    im-
                                                                    age=None,
                                                                    back-
                                                                    ground_image=None)
```

Bases: `ask_sdk_model.interfaces.display.template.Template`

Parameters

- **token** (*optional str*)–
- **back_button** (*optional ask_sdk_model.interfaces.display.back_button_behavior.BackButtonBehavior*)–
- **title** (*optional str*)–
- **image** (*optional ask_sdk_model.interfaces.display.image.Image*)–
- **background_image** (*optional ask_sdk_model.interfaces.display.image.Image*)–

```
attribute_map = {'back_button': 'backButton', 'background_image': 'backgroundImage',
```

```
deserialized_types = {'back_button': 'ask_sdk_model.interfaces.display.back_button_be
```

```
supports_multiple_types = False
```

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_sdk_model.interfaces.display.display_interface` module

```
class ask_sdk_model.interfaces.display.display_interface.DisplayInterface (template_version=None,
                                                                    markup_version=None)
```

Bases: `object`

Parameters

- **template_version** (*optional str*)–
- **markup_version** (*optional str*)–

```
attribute_map = {'markup_version': 'markupVersion', 'template_version': 'templateVer
```

```
deserialized_types = {'markup_version': 'str', 'template_version': 'str'}
```

```
supports_multiple_types = False
```

```

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.interfaces.display.display_state module

```

class ask_sdk_model.interfaces.display.display_state.DisplayState (token=None)
    Bases: object

        Parameters token (optional str)–

    attribute_map = {'token': 'token'}
    deserialized_types = {'token': 'str'}
    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model
    
```

ask_sdk_model.interfaces.display.element_selected_request module

```

class ask_sdk_model.interfaces.display.element_selected_request.ElementSelectedRequest (request_id, timestamp, locale, token)
    Bases: ask_sdk_model.request.Request

        Parameters

            • request_id (optional str) – Represents the unique identifier for the specific request.

            • timestamp (optional datetime) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.

            • locale (optional str) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.

            • token (optional str)–

    attribute_map = {'locale': 'locale', 'object_type': 'type', 'request_id': 'request_id', 'timestamp': 'timestamp', 'token': 'token'}
    deserialized_types = {'locale': 'str', 'object_type': 'str', 'request_id': 'str', 'timestamp': 'datetime', 'token': 'str'}
    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model
    
```

ask_sdk_model.interfaces.display.hint module

class ask_sdk_model.interfaces.display.hint.**Hint** (*object_type=None*)

Bases: `object`

Parameters `object_type` (*optional*) `str`–

Note: This is an abstract class. Use the following mapping, to figure out the model class to be instantiated, that sets type variable.

PlainText: `ask_sdk_model.interfaces.display.plain_text_hint.PlainTextHint`

`attribute_map` = {'object_type': 'type'}

`deserialized_types` = {'object_type': 'str'}

`discriminator_value_class_map` = {'PlainText': 'ask_sdk_model.interfaces.display.plain

`classmethod` `get_real_child_model` (*data*)

Returns the real base class specified by the discriminator

`json_discriminator_key` = 'type'

`supports_multiple_types` = `False`

`to_dict` ()

Returns the model properties as a dict

`to_str` ()

Returns the string representation of the model

ask_sdk_model.interfaces.display.hint_directive module

class ask_sdk_model.interfaces.display.hint_directive.**HintDirective** (*hint=None*)

Bases: `ask_sdk_model.directive.Directive`

Parameters `hint` (*optional*) `ask_sdk_model.interfaces.display.hint.Hint`–

`attribute_map` = {'hint': 'hint', 'object_type': 'type'}

`deserialized_types` = {'hint': 'ask_sdk_model.interfaces.display.hint.Hint', 'object_t

`supports_multiple_types` = `False`

`to_dict` ()

Returns the model properties as a dict

`to_str` ()

Returns the string representation of the model

ask_sdk_model.interfaces.display.image module

```
class ask_sdk_model.interfaces.display.image.Image (content_description=None,  
sources=None)
```

Bases: `object`

Parameters

- **content_description** (*optional*) *str*–
- **sources** (*optional*) *list*[ask_sdk_model.interfaces.display.image_instance.ImageInstance]–

```
attribute_map = {'content_description': 'contentDescription', 'sources': 'sources'}
```

```
deserialized_types = {'content_description': 'str', 'sources': 'list[ask_sdk_model.i
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_sdk_model.interfaces.display.image_instance module

```
class ask_sdk_model.interfaces.display.image_instance.ImageInstance (url=None,  
size=None,  
width_pixels=None,  
height_pixels=None)
```

Bases: `object`

Parameters

- **url** (*optional*) *str*–
- **size** (*optional*) ask_sdk_model.interfaces.display.image_size.ImageSize–
- **width_pixels** (*optional*) *int*–
- **height_pixels** (*optional*) *int*–

```
attribute_map = {'height_pixels': 'heightPixels', 'size': 'size', 'url': 'url', 'wi
```

```
deserialized_types = {'height_pixels': 'int', 'size': 'ask_sdk_model.interfaces.disp
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_sdk_model.interfaces.display.image_size module

```
class ask_sdk_model.interfaces.display.image_size.ImageSize
```

Bases: `enum.Enum`

Allowed enum values: [X_SMALL, SMALL, MEDIUM, LARGE, X_LARGE]

```

LARGE = 'LARGE'
MEDIUM = 'MEDIUM'
SMALL = 'SMALL'
X_LARGE = 'X_LARGE'
X_SMALL = 'X_SMALL'

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.display.list_item module

```

class ask_sdk_model.interfaces.display.list_item.ListItem(token=None,
                                                         image=None,
                                                         text_content=None)

```

Bases: `object`

Parameters

- **token** ((optional) *str*)–
- **image** ((optional) `ask_sdk_model.interfaces.display.image.Image`)–
- **text_content** ((optional) `ask_sdk_model.interfaces.display.text_content.TextContent`)–

```

attribute_map = {'image': 'image', 'text_content': 'textContent', 'token': 'token'}
deserialized_types = {'image': 'ask_sdk_model.interfaces.display.image.Image', 'text_
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.display.list_template1 module

```

class ask_sdk_model.interfaces.display.list_template1.ListTemplate1(token=None,
                                                                    back_button=None,
                                                                    back-
                                                                    ground_image=None,
                                                                    ti-
                                                                    tle=None,
                                                                    list_items=None)

```

Bases: `ask_sdk_model.interfaces.display.template.Template`

Parameters

- **token** ((optional) *str*)–

- **back_button** ((optional) ask_sdk_model.interfaces.display.back_button_behavior.BackButtonBehavior)-
- **background_image** ((optional) ask_sdk_model.interfaces.display.image.Image)-
- **title**((optional) str)-
- **list_items** ((optional) list[ask_sdk_model.interfaces.display.list_item.ListItem])-

```

attribute_map = {'back_button': 'backButton', 'background_image': 'backgroundImage',
deserialized_types = {'back_button': 'ask_sdk_model.interfaces.display.back_button_be
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.display.list_template2 module

```

class ask_sdk_model.interfaces.display.list_template2.ListTemplate2(token=None,
                                                                    back_button=None,
                                                                    back-
                                                                    ground_image=None,
                                                                    ti-
                                                                    tile=None,
                                                                    list_items=None)

```

Bases: *ask_sdk_model.interfaces.display.template.Template*

Parameters

- **token**((optional) str)-
- **back_button** ((optional) ask_sdk_model.interfaces.display.back_button_behavior.BackButtonBehavior)-
- **background_image** ((optional) ask_sdk_model.interfaces.display.image.Image)-
- **title**((optional) str)-
- **list_items** ((optional) list[ask_sdk_model.interfaces.display.list_item.ListItem])-

```

attribute_map = {'back_button': 'backButton', 'background_image': 'backgroundImage',
deserialized_types = {'back_button': 'ask_sdk_model.interfaces.display.back_button_be
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.display.plain_text module**class** ask_sdk_model.interfaces.display.plain_text.**PlainText** (*text=None*)Bases: *ask_sdk_model.interfaces.display.text_field.TextField*Parameters **text** ((*optional*) *str*)–**attribute_map** = {'object_type': 'type', 'text': 'text'}**deserialized_types** = {'object_type': 'str', 'text': 'str'}**supports_multiple_types** = **False****to_dict** ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.interfaces.display.plain_text_hint module**class** ask_sdk_model.interfaces.display.plain_text_hint.**PlainTextHint** (*text=None*)Bases: *ask_sdk_model.interfaces.display.hint.Hint*Parameters **text** ((*optional*) *str*)–**attribute_map** = {'object_type': 'type', 'text': 'text'}**deserialized_types** = {'object_type': 'str', 'text': 'str'}**supports_multiple_types** = **False****to_dict** ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.interfaces.display.render_template_directive module**class** ask_sdk_model.interfaces.display.render_template_directive.**RenderTemplateDirective** (*text=None*)Bases: *ask_sdk_model.directive.Directive*Parameters **template** ((*optional*) *ask_sdk_model.interfaces.display.template.Template*)–**attribute_map** = {'object_type': 'type', 'template': 'template'}**deserialized_types** = {'object_type': 'str', 'template': 'ask_sdk_model.interfaces.di**supports_multiple_types** = **False****to_dict** ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.interfaces.display.rich_text module

```

class ask_sdk_model.interfaces.display.rich_text.RichText (text=None)
    Bases: ask_sdk_model.interfaces.display.text_field.TextField

    Parameters text ((optional) str)-

    attribute_map = {'object_type': 'type', 'text': 'text'}
    deserialized_types = {'object_type': 'str', 'text': 'str'}
    supports_multiple_types = False

    to_dict ()
        Returns the model properties as a dict

    to_str ()
        Returns the string representation of the model
    
```

ask_sdk_model.interfaces.display.template module

```

class ask_sdk_model.interfaces.display.template.Template (object_type=None,
                                                         token=None,
                                                         back_button=None)

    Bases: object
    
```

Parameters

- **object_type** ((optional) str)-
- **token** ((optional) str)-
- **back_button** ((optional) ask_sdk_model.interfaces.display.back_button_behavior.BackButtonBehavior)-

Note: This is an abstract class. Use the following mapping, to figure out the model class to be instantiated, that sets type variable.

ListTemplate2: `ask_sdk_model.interfaces.display.list_template2.ListTemplate2`,

ListTemplate1: `ask_sdk_model.interfaces.display.list_template1.ListTemplate1`,

BodyTemplate7: `ask_sdk_model.interfaces.display.body_template7.BodyTemplate7`,

BodyTemplate6: `ask_sdk_model.interfaces.display.body_template6.BodyTemplate6`,

BodyTemplate3: `ask_sdk_model.interfaces.display.body_template3.BodyTemplate3`,

BodyTemplate2: `ask_sdk_model.interfaces.display.body_template2.BodyTemplate2`,

BodyTemplate1: `ask_sdk_model.interfaces.display.body_template1.BodyTemplate1`

```

attribute_map = {'back_button': 'backButton', 'object_type': 'type', 'token': 'token'
    
```

```

deserialized_types = {'back_button': 'ask_sdk_model.interfaces.display.back_button_be
discriminator_value_class_map = {'BodyTemplate1': 'ask_sdk_model.interfaces.display.b
classmethod get_real_child_model (data)
    Returns the real base class specified by the discriminator
json_discriminator_key = 'type'
supports_multiple_types = False
to_dict ()
    Returns the model properties as a dict
to_str ()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.display.text_content module

```

class ask_sdk_model.interfaces.display.text_content.TextContent (primary_text=None,
                                                                sec-
                                                                ondary_text=None,
                                                                ter-
                                                                tiary_text=None)

```

Bases: object

Parameters

- **primary_text** ((optional) ask_sdk_model.interfaces.display.text_field.TextField)-
- **secondary_text** ((optional) ask_sdk_model.interfaces.display.text_field.TextField)-
- **tertiary_text** ((optional) ask_sdk_model.interfaces.display.text_field.TextField)-

```

attribute_map = {'primary_text': 'primaryText', 'secondary_text': 'secondaryText', '
deserialized_types = {'primary_text': 'ask_sdk_model.interfaces.display.text_field.Te
supports_multiple_types = False
to_dict ()
    Returns the model properties as a dict
to_str ()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.display.text_field module

```

class ask_sdk_model.interfaces.display.text_field.TextField (object_type=None)

```

Bases: object

Parameters **object_type** ((optional) str)-

Note: This is an abstract class. Use the following mapping, to figure out the model class to be instantiated, that sets type variable.

RichText: `ask_sdk_model.interfaces.display.rich_text.RichText`,

PlainText: `ask_sdk_model.interfaces.display.plain_text.PlainText`

```

attribute_map = {'object_type': 'type'}
deserialized_types = {'object_type': 'str'}
discriminator_value_class_map = {'PlainText': 'ask_sdk_model.interfaces.display.plain_text.PlainText'}
classmethod get_real_child_model (data)
    Returns the real base class specified by the discriminator
json_discriminator_key = 'type'
supports_multiple_types = False
to_dict ()
    Returns the model properties as a dict
to_str ()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.gadget_controller package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.interfaces.gadget_controller.set_light_directive module

class `ask_sdk_model.interfaces.gadget_controller.set_light_directive.SetLightDirective` (*version*

target_gadgets
parameters

Bases: `ask_sdk_model.directive.Directive`

Sends Alexa a command to modify the behavior of connected Echo Buttons.

Parameters

- **version** (*optional*) `int` – The version of the directive. Must be set to 1.
- **target_gadgets** (*optional*) `list[str]` – The gadget IDs that will receive the command. An empty array, or leaving this parameter out, signifies that all gadgets will receive the command.

- **parameters** ((*optional*) `ask_sdk_model.services.gadget_controller.set_light_parameters.SetLightParameters`)
–

`attribute_map = {'object_type': 'type', 'parameters': 'parameters', 'target_gadgets':`

`deserialized_types = {'object_type': 'str', 'parameters': 'ask_sdk_model.services.g`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

`ask_sdk_model.interfaces.game_engine` package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

`ask_sdk_model.interfaces.game_engine.input_handler_event_request` module

class `ask_sdk_model.interfaces.game_engine.input_handler_event_request.InputHandlerEventRece`

Bases: `ask_sdk_model.request.Request`

Sent when the conditions of an Echo Button event that your skill defined were met.

Parameters

- **request_id** ((*optional*) `str`) – Represents the unique identifier for the specific request.
- **timestamp** ((*optional*) `datetime`) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** ((*optional*) `str`) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **originating_request_id** ((*optional*) `str`) – The corresponding identifier of the request that started the input handler.

- **events** ((optional) *list[ask_sdk_model.services.game_engine.input_handler_event.InputHandlerEvent]*)–

attribute_map = {'events': 'events', 'locale': 'locale', 'object_type': 'type', 'or

deserialized_types = {'events': 'list[ask_sdk_model.services.game_engine.input_handle

supports_multiple_types = **False**

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.game_engine.start_input_handler_directive module

class ask_sdk_model.interfaces.game_engine.start_input_handler_directive.**StartInputHandler**

Bases: *ask_sdk_model.directive.Directive*

Parameters

- **timeout** ((optional) *int*)– The maximum run time for this Input Handler, in milliseconds. Although this parameter is required, you can specify events with conditions on which to end the Input Handler earlier.
- **proxies** ((optional) *list[str]*)– Names for unknown gadget IDs to use in recognizers, allocated on a first-come, first-served basis.
- **recognizers** ((optional) *dict(str, ask_sdk_model.services.game_engine.recognizer.Recognizer)*)– Conditions that, at any moment, are either true or false. You use recognizers when you specify the conditions under which your skill is notified of Echo Button input.
- **events** ((optional) *dict(str, ask_sdk_model.services.game_engine.event.Event)*)– The logic that determines when your skill is notified of Echo Button input. Events are listed here as object keys, where the keys specify the name of an event.

attribute_map = {'events': 'events', 'object_type': 'type', 'proxies': 'proxies', 'l

deserialized_types = {'events': 'dict(str, ask_sdk_model.services.game_engine.event.E

supports_multiple_types = **False**

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

`ask_sdk_model.interfaces.game_engine.stop_input_handler_directive` module

class `ask_sdk_model.interfaces.game_engine.stop_input_handler_directive.StopInputHandlerDirective`

Bases: `ask_sdk_model.directive.Directive`

Parameters `originating_request_id` ((optional) *str*) - The `requestId` of the request that started the input handler.

`attribute_map` = {'object_type': 'type', 'originating_request_id': 'originatingRequestId'}

`deserialized_types` = {'object_type': 'str', 'originating_request_id': 'str'}

`supports_multiple_types` = `False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

`ask_sdk_model.interfaces.geolocation` package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

`ask_sdk_model.interfaces.geolocation.access` module

class `ask_sdk_model.interfaces.geolocation.access.Access`

Bases: `enum.Enum`

A string representing if Alexa has access to location services running on the hostOS of device.

Allowed enum values: [ENABLED, DISABLED, UNKNOWN]

`DISABLED` = 'DISABLED'

`ENABLED` = 'ENABLED'

`UNKNOWN` = 'UNKNOWN'

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

ask_sdk_model.interfaces.geolocation.altitude module

```
class ask_sdk_model.interfaces.geolocation.altitude.Altitude (altitude_in_meters=None,  
accuracy_in_meters=None)
```

Bases: `object`

An object containing the altitude information of the device.

Parameters

- **altitude_in_meters** (*optional float*) – A double representing the altitude of the device in meters.
- **accuracy_in_meters** (*optional float*) – A double representing the accuracy of the altitude measurement in meters.

```
attribute_map = {'accuracy_in_meters': 'accuracyInMeters', 'altitude_in_meters': 'altitudeInMeters'}
```

```
deserialized_types = {'accuracy_in_meters': 'float', 'altitude_in_meters': 'float'}
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_sdk_model.interfaces.geolocation.coordinate module

```
class ask_sdk_model.interfaces.geolocation.coordinate.Coordinate (latitude_in_degrees=None,  
longitude_in_degrees=None,  
accuracy_in_meters=None)
```

Bases: `object`

An object containing the location information of the device.

Parameters

- **latitude_in_degrees** (*optional float*) – A double representing the latitude in degrees of the device.
- **longitude_in_degrees** (*optional float*) – A double representing the longitude in degrees of the device.
- **accuracy_in_meters** (*optional float*) – A double representing the accuracy of geolocation data in meters.

```
attribute_map = {'accuracy_in_meters': 'accuracyInMeters', 'latitude_in_degrees': 'latitudeInDegrees', 'longitude_in_degrees': 'longitudeInDegrees'}
```

```
deserialized_types = {'accuracy_in_meters': 'float', 'latitude_in_degrees': 'float', 'longitude_in_degrees': 'float'}
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_sdk_model.interfaces.geolocation.geolocation_interface module

```

class ask_sdk_model.interfaces.geolocation.geolocation_interface.GeolocationInterface
    Bases: object
    attribute_map = {}
    deserialized_types = {}
    supports_multiple_types = False
    to_dict ()
        Returns the model properties as a dict
    to_str ()
        Returns the string representation of the model
    
```

ask_sdk_model.interfaces.geolocation.geolocation_state module

```

class ask_sdk_model.interfaces.geolocation.geolocation_state.GeolocationState (timestamp=None,
                                                                              co-
                                                                              or-
                                                                              di-
                                                                              nate=None,
                                                                              al-
                                                                              ti-
                                                                              tude=None,
                                                                              head-
                                                                              ing=None,
                                                                              speed=None,
                                                                              lo-
                                                                              ca-
                                                                              tion_services=None)
    Bases: object
    
```

Parameters

- **timestamp** ((optional) str) – Specifies the time when the geolocation data was last collected on the device.
- **coordinate** ((optional) ask_sdk_model.interfaces.geolocation.coordinate.Coordinate)–
- **altitude** ((optional) ask_sdk_model.interfaces.geolocation.altitude.Altitude)–
- **heading** ((optional) ask_sdk_model.interfaces.geolocation.heading.Heading)–
- **speed** ((optional) ask_sdk_model.interfaces.geolocation.speed.Speed)–
- **location_services** ((optional) ask_sdk_model.interfaces.geolocation.location_services.LocationServices)–

```

attribute_map = {'altitude': 'altitude', 'coordinate': 'coordinate', 'heading': 'he
deserialized_types = {'altitude': 'ask_sdk_model.interfaces.geolocation.altitude.Alti
supports_multiple_types = False
    
```

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_sdk_model.interfaces.geolocation.heading` module

class `ask_sdk_model.interfaces.geolocation.heading.Heading` (*direction_in_degrees=None, accuracy_in_degrees=None*)

Bases: `object`

An object containing the heading direction information of the device.

Parameters

- **direction_in_degrees** (*optional float*) – A double representing the direction of the device in degrees.
- **accuracy_in_degrees** (*optional float*) – A double representing the accuracy of the heading measurement in degrees.

```
attribute_map = {'accuracy_in_degrees': 'accuracyInDegrees', 'direction_in_degrees':
deserialized_types = {'accuracy_in_degrees': 'float', 'direction_in_degrees': 'float'
supports_multiple_types = False
```

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_sdk_model.interfaces.geolocation.location_services` module

class `ask_sdk_model.interfaces.geolocation.location_services.LocationServices` (*status=None, access=None*)

Bases: `object`

An object containing status and access.

Parameters

- **status** (*optional ask_sdk_model.interfaces.geolocation.status.Status*) – A string representing the status of whether location services is currently running or not on the host OS of device.
- **access** (*optional ask_sdk_model.interfaces.geolocation.access.Access*) – A string representing if Alexa has access to location services running on the hostOS of device.

```
attribute_map = {'access': 'access', 'status': 'status'}
deserialized_types = {'access': 'ask_sdk_model.interfaces.geolocation.access.Access',
supports_multiple_types = False
```

```

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.interfaces.geolocation.speed module

```

class ask_sdk_model.interfaces.geolocation.speed.Speed(speed_in_meters_per_second=None,
                                                    accuracy_in_meters_per_second=None)
    
```

Bases: `object`

An object containing the speed information of the device.

Parameters

- **speed_in_meters_per_second** (*(optional) float*) – A double representing the speed of the device in meters.
- **accuracy_in_meters_per_second** (*(optional) float*) – A double representing the accuracy of the speed measurement in meters.

```

attribute_map = {'accuracy_in_meters_per_second': 'accuracyInMetersPerSecond', 'speed': 'speed'}
    
```

```

deserialized_types = {'accuracy_in_meters_per_second': 'float', 'speed_in_meters_per_second': 'float'}
    
```

```

supports_multiple_types = False
    
```

```

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.interfaces.geolocation.status module

```

class ask_sdk_model.interfaces.geolocation.status.Status
    
```

Bases: `enum.Enum`

A string representing the status of whether location services is currently running or not on the host OS of device.

Allowed enum values: [RUNNING, STOPPED]

```

RUNNING = 'RUNNING'
    
```

```

STOPPED = 'STOPPED'
    
```

```

to_dict()
    Returns the model properties as a dict
    
```

```

to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.interfaces.messaging package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.interfaces.messaging.message_received_request module

class `ask_sdk_model.interfaces.messaging.message_received_request.MessageReceivedRequest` (*re*

Bases: `ask_sdk_model.request.Request`

Parameters

- **request_id** (*optional str*) – Represents the unique identifier for the specific request.
- **timestamp** (*optional datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **message** (*optional dict(str, object)*) –

`attribute_map = {'locale': 'locale', 'message': 'message', 'object_type': 'type', '...`

`deserialized_types = {'locale': 'str', 'message': 'dict(str, object)', 'object_type': '...`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

ask_sdk_model.interfaces.monetization package

Subpackages

ask_sdk_model.interfaces.monetization.v1 package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

`ask_sdk_model.interfaces.monetization.v1.in_skill_product` module

class `ask_sdk_model.interfaces.monetization.v1.in_skill_product.InSkillProduct` (*product_id=None*)
Bases: `object`

Entity to define In Skill Product over which actions will be performed.

Parameters `product_id` (*optional*) *str* – The product ID of In Skill Product.

attribute_map = {'product_id': 'productId'}

deserialized_types = {'product_id': 'str'}

supports_multiple_types = **False**

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

`ask_sdk_model.interfaces.monetization.v1.purchase_result` module

class `ask_sdk_model.interfaces.monetization.v1.purchase_result.PurchaseResult`
Bases: `enum.Enum`

Response from purchase directives: * **ACCEPTED** - User have accepted the offer to purchase the product * **DECLINED** - User have declined the offer to purchase the product * **NOT_ENTITLED** - User tries to cancel/return a product he/she is not entitled to. * **ALREADY_PURCHASED** - User has already purchased the product * **ERROR** - An internal error occurred

Allowed enum values: [ACCEPTED, DECLINED, NOT_ENTITLED, ERROR, ALREADY_PURCHASED]

ACCEPTED = 'ACCEPTED'

ALREADY_PURCHASED = 'ALREADY_PURCHASED'

DECLINED = 'DECLINED'

ERROR = 'ERROR'

NOT_ENTITLED = 'NOT_ENTITLED'

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

`ask_sdk_model.interfaces.navigation` package

Subpackages

`ask_sdk_model.interfaces.navigation.assistance` package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

`ask_sdk_model.interfaces.navigation.assistance.announce_road_regulation` module

class `ask_sdk_model.interfaces.navigation.assistance.announce_road_regulation.AnnounceRoadRegulation`
Bases: `ask_sdk_model.directive.Directive`

New directive that Alexa will send to navigation engine to query road regulations about the road segments that the user is on.

```
attribute_map = {'object_type': 'type'}
deserialized_types = {'object_type': 'str'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
```

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

`ask_sdk_model.interfaces.navigation.navigation_interface` module

class `ask_sdk_model.interfaces.navigation.navigation_interface.NavigationInterface`
Bases: `object`

```
attribute_map = {}
deserialized_types = {}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.playbackcontroller package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.interfaces.playbackcontroller.next_command_issued_request module

class `ask_sdk_model.interfaces.playbackcontroller.next_command_issued_request.NextCommandI`

Bases: `ask_sdk_model.request.Request`

Parameters

- **request_id** (*optional* `str`) – Represents the unique identifier for the specific request.
- **timestamp** (*optional* `datetime`) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional* `str`) – A string indicating the user's locale. For example: en-US. This value is only provided with certain request types.

`attribute_map = {'locale': 'locale', 'object_type': 'type', 'request_id': 'requestI`

`deserialized_types = {'locale': 'str', 'object_type': 'str', 'request_id': 'str', '`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

ask_sdk_model.interfaces.playbackcontroller.pause_command_issued_request module

class `ask_sdk_model.interfaces.playbackcontroller.pause_command_issued_request.PauseComman`

Bases: `ask_sdk_model.request.Request`

Parameters

- **request_id** (*optional* `str`) – Represents the unique identifier for the specific request.

- **timestamp** (*optional* *datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional* *str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.

```

attribute_map = {'locale': 'locale', 'object_type': 'type', 'request_id': 'request_id'}
deserialized_types = {'locale': 'str', 'object_type': 'str', 'request_id': 'str', 'timestamp': 'datetime'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.playbackcontroller.play_command_issued_request module

```
class ask_sdk_model.interfaces.playbackcontroller.play_command_issued_request.PlayCommandIssuedRequest
```

Bases: *ask_sdk_model.request.Request*

Parameters

- **request_id** (*optional* *str*) – Represents the unique identifier for the specific request.
- **timestamp** (*optional* *datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional* *str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.

```

attribute_map = {'locale': 'locale', 'object_type': 'type', 'request_id': 'request_id', 'timestamp': 'datetime'}
deserialized_types = {'locale': 'str', 'object_type': 'str', 'request_id': 'str', 'timestamp': 'datetime'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.playbackcontroller.previous_command_issued_request module

```
class ask_sdk_model.interfaces.playbackcontroller.previous_command_issued_request.PreviousCommandIssuedRequest
```

Bases: *ask_sdk_model.request.Request*

Parameters

- **request_id** *((optional) str)* – Represents the unique identifier for the specific request.
- **timestamp** *((optional) datetime)* – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** *((optional) str)* – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.

```
attribute_map = {'locale': 'locale', 'object_type': 'type', 'request_id': 'request_id'}
```

```
deserialized_types = {'locale': 'str', 'object_type': 'str', 'request_id': 'str', 'timestamp': 'datetime'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_sdk_model.interfaces.system package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.interfaces.system.error module

```
class ask_sdk_model.interfaces.system.error.Error(object_type=None, message=None)
Bases: object
```

Parameters

- **object_type** *((optional) ask_sdk_model.interfaces.system.error_type.ErrorType)* –
- **message** *((optional) str)* –

```
attribute_map = {'message': 'message', 'object_type': 'type'}
```

```
deserialized_types = {'message': 'str', 'object_type': 'ask_sdk_model.interfaces.system.error_type.ErrorType'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_sdk_model.interfaces.system.error_cause module

```
class ask_sdk_model.interfaces.system.error_cause.ErrorCause (request_id=None)
```

```
Bases: object
```

```
Parameters request_id (optional) str –
```

```
attribute_map = {'request_id': 'requestId'}
```

```
deserialized_types = {'request_id': 'str'}
```

```
supports_multiple_types = False
```

```
to_dict ()
```

```
Returns the model properties as a dict
```

```
to_str ()
```

```
Returns the string representation of the model
```

ask_sdk_model.interfaces.system.error_type module

```
class ask_sdk_model.interfaces.system.error_type.ErrorType
```

```
Bases: enum.Enum
```

```
Allowed enum values: [INVALID_RESPONSE, DEVICE_COMMUNICATION_ERROR, INTERNAL_SERVICE_ERROR]
```

```
DEVICE_COMMUNICATION_ERROR = 'DEVICE_COMMUNICATION_ERROR'
```

```
INTERNAL_SERVICE_ERROR = 'INTERNAL_SERVICE_ERROR'
```

```
INVALID_RESPONSE = 'INVALID_RESPONSE'
```

```
to_dict ()
```

```
Returns the model properties as a dict
```

```
to_str ()
```

```
Returns the string representation of the model
```

ask_sdk_model.interfaces.system.exception_encountered_request module

```
class ask_sdk_model.interfaces.system.exception_encountered_request.ExceptionEncounteredRequest
```

```
Bases: ask_sdk_model.request.Request
```

Parameters

- **request_id** (*optional*) *str* – Represents the unique identifier for the specific request.
- **timestamp** (*optional*) *datetime* – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.

- **locale** ((*optional*) *str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **error** ((*optional*) `ask_sdk_model.interfaces.system.error.Error`) –
- **cause** ((*optional*) `ask_sdk_model.interfaces.system.error_cause.ErrorCause`) –

`attribute_map = {'cause': 'cause', 'error': 'error', 'locale': 'locale', 'object_ty`

`deserialized_types = {'cause': 'ask_sdk_model.interfaces.system.error_cause.ErrorCaus`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

`ask_sdk_model.interfaces.system.system_state` module

```
class ask_sdk_model.interfaces.system.system_state.SystemState(application=None,
                                                             user=None, de-
                                                             vice=None,
                                                             person=None,
                                                             api_endpoint=None,
                                                             api_access_token=None)
```

Bases: `object`

Parameters

- **application** ((*optional*) `ask_sdk_model.application.Application`) –
- **user** ((*optional*) `ask_sdk_model.user.User`) –
- **device** ((*optional*) `ask_sdk_model.device.Device`) –
- **person** ((*optional*) `ask_sdk_model.person.Person`) –
- **api_endpoint** ((*optional*) *str*) – A string that references the correct base URI to refer to by region, for use with APIs such as the Device Location API and Progressive Response API.
- **api_access_token** ((*optional*) *str*) – A bearer token string that can be used by the skill (during the skill session) to access Alexa APIs resources of the registered Alexa customer and/or person who is making the request. This token encapsulates the permissions authorized under the registered Alexa account and device, and (optionally) the recognized person. Some resources, such as name or email, require explicit customer consent.

`attribute_map = {'api_access_token': 'apiAccessToken', 'api_endpoint': 'apiEndpoint'`

`deserialized_types = {'api_access_token': 'str', 'api_endpoint': 'str', 'application`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

ask_sdk_model.interfaces.tasks package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.interfaces.tasks.complete_task_directive module

class `ask_sdk_model.interfaces.tasks.complete_task_directive.CompleteTaskDirective` (*status=None, result=None*)

Bases: `ask_sdk_model.directive.Directive`

This is the directive that a skill can send as part of their response to a session based request. The response will contain the result of the task that the skill is launched for.

Parameters

- **status** (*optional*) `ask_sdk_model.status.Status` –
- **result** (*optional*) `dict(str, object)` – This is an object sent to the requester.

`attribute_map` = {'object_type': 'type', 'result': 'result', 'status': 'status'}

`deserialized_types` = {'object_type': 'str', 'result': 'dict(str, object)', 'status': 'str'}

`supports_multiple_types` = False

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

ask_sdk_model.interfaces.videoapp package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.interfaces.videoapp.launch_directive module

```

class ask_sdk_model.interfaces.videoapp.launch_directive.LaunchDirective (video_item=None)
    Bases: ask_sdk_model.directive.Directive

        Parameters video_item ((optional) ask_sdk_model.interfaces.videoapp.
            video_item.VideoItem)-

    attribute_map = {'object_type': 'type', 'video_item': 'videoItem'}
    deserialized_types = {'object_type': 'str', 'video_item': 'ask_sdk_model.interfaces.
    supports_multiple_types = False

    to_dict ()
        Returns the model properties as a dict

    to_str ()
        Returns the string representation of the model
    
```

ask_sdk_model.interfaces.videoapp.metadata module

```

class ask_sdk_model.interfaces.videoapp.metadata.Metadata (title=None, subtitle=None)
    Bases: object

        Parameters

            • title((optional) str)-
            • subtitle((optional) str)-

    attribute_map = {'subtitle': 'subtitle', 'title': 'title'}
    deserialized_types = {'subtitle': 'str', 'title': 'str'}
    supports_multiple_types = False

    to_dict ()
        Returns the model properties as a dict

    to_str ()
        Returns the string representation of the model
    
```

ask_sdk_model.interfaces.videoapp.video_app_interface module

```

class ask_sdk_model.interfaces.videoapp.video_app_interface.VideoAppInterface
    Bases: object

    attribute_map = {}
    deserialized_types = {}
    supports_multiple_types = False

    to_dict ()
        Returns the model properties as a dict

    to_str ()
        Returns the string representation of the model
    
```


ask_sdk_model.interfaces.videoapp.video_item module

class ask_sdk_model.interfaces.videoapp.video_item.**VideoItem**(source=None, metadata=None)

Bases: object

Parameters

- **source** ((optional) str)–
- **metadata** ((optional) ask_sdk_model.interfaces.videoapp.metadata.Metadata)–

attribute_map = {'metadata': 'metadata', 'source': 'source'}

deserialized_types = {'metadata': 'ask_sdk_model.interfaces.videoapp.metadata.Metadata'}

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.viewport package**Subpackages****ask_sdk_model.interfaces.viewport.apl package****Submodules**

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.interfaces.viewport.apl.current_configuration module

class ask_sdk_model.interfaces.viewport.apl.current_configuration.**CurrentConfiguration**(mode=Mode.VIDEO, video_size=VideoSize.NORMAL, display_resolution=DisplayResolution.FULL_SCREEN, log_level=LogLevel.INFO)

Bases: object

The viewport configuration at the time of the request.

Parameters

- **mode** ((optional) ask_sdk_model.interfaces.viewport.mode.Mode)–

- **video** ((optional) ask_sdk_model.interfaces.viewport.viewport_video.ViewportVideo)–
- **size** ((optional) ask_sdk_model.interfaces.viewport.size.viewport_size.ViewportSize)–
- **dialog** ((optional) ask_sdk_model.interfaces.viewport.dialog.Dialog)–

attribute_map = {'dialog': 'dialog', 'mode': 'mode', 'size': 'size', 'video': 'vid

deserialized_types = {'dialog': 'ask_sdk_model.interfaces.viewport.dialog.Dialog', 'm

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.viewport.apl.viewport_configuration module

class ask_sdk_model.interfaces.viewport.apl.viewport_configuration.**ViewportConfiguration** (cu
 Bases: object

Parameters **current** ((optional) ask_sdk_model.interfaces.viewport.apl.current_configuration.CurrentConfiguration)–

attribute_map = {'current': 'current'}

deserialized_types = {'current': 'ask_sdk_model.interfaces.viewport.apl.current_conf

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.viewport.aplt package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.interfaces.viewport.aplt.character_format module

class ask_sdk_model.interfaces.viewport.aplt.character_format.**CharacterFormat**
 Bases: enum.Enum

Supported character set on a text display * `SEVEN_SEGMENT`; - 7-segment display

Allowed enum values: [`SEVEN_SEGMENT`]

`SEVEN_SEGMENT = 'SEVEN_SEGMENT'`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

`ask_sdk_model.interfaces.viewport.aplt.inter_segment` module

`class ask_sdk_model.interfaces.viewport.aplt.inter_segment.InterSegment` (*x=None, y=None, characters=None*)

Bases: `object`

Parameters

- `x` (*optional int*) – horizontal position (0-based index) in characters
- `y` (*optional int*) – vertical position (0-based index) in rows
- `characters` (*optional str*) – list of characters that can be rendered

`attribute_map = {'characters': 'characters', 'x': 'x', 'y': 'y'}`

`deserialized_types = {'characters': 'str', 'x': 'int', 'y': 'int'}`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

`ask_sdk_model.interfaces.viewport.aplt.viewport_profile` module

`class ask_sdk_model.interfaces.viewport.aplt.viewport_profile.ViewportProfile`

Bases: `enum.Enum`

name of viewport's profile

Allowed enum values: [`FOUR_CHARACTER_CLOCK`]

`FOUR_CHARACTER_CLOCK = 'FOUR_CHARACTER_CLOCK'`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

ask_sdk_model.interfaces.viewport.size package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.interfaces.viewport.size.continuous_viewport_size module

class `ask_sdk_model.interfaces.viewport.size.continuous_viewport_size.ContinuousViewportSize`

Bases: `ask_sdk_model.interfaces.viewport.size.viewport_size.ViewportSize`

Defines range of size with minimum and maximum values for with and height.

Parameters

- `min_pixel_width` ((optional) `int`)-
- `min_pixel_height` ((optional) `int`)-
- `max_pixel_width` ((optional) `int`)-
- `max_pixel_height` ((optional) `int`)-

`attribute_map` = {'max_pixel_height': 'maxPixelHeight', 'max_pixel_width': 'maxPixelW

`deserialized_types` = {'max_pixel_height': 'int', 'max_pixel_width': 'int', 'min_pixe

`supports_multiple_types` = `False`

`to_dict` ()

Returns the model properties as a dict

`to_str` ()

Returns the string representation of the model

ask_sdk_model.interfaces.viewport.size.discrete_viewport_size module

class `ask_sdk_model.interfaces.viewport.size.discrete_viewport_size.DiscreteViewportSize` (`pi`

Bases: `ask_sdk_model.interfaces.viewport.size.viewport_size.ViewportSize`

Defines a fixed size of viewport.

Parameters

- `pixel_width` ((optional) `int`)-
- `pixel_height` ((optional) `int`)-

`attribute_map` = {'object_type': 'type', 'pixel_height': 'pixelHeight', 'pixel_width'

`deserialized_types` = {'object_type': 'str', 'pixel_height': 'int', 'pixel_width': 'pi

```
supports_multiple_types = False
```

```
to_dict()  
    Returns the model properties as a dict
```

```
to_str()  
    Returns the string representation of the model
```

ask_sdk_model.interfaces.viewport.size.viewport_size module

```
class ask_sdk_model.interfaces.viewport.size.viewport_size.ViewportSize (object_type=None)  
    Bases: object
```

Information regarding the range of sizes for a configuration.

Parameters `object_type` (*optional*) `str` – name of the type of a viewport object

Note: This is an abstract class. Use the following mapping, to figure out the model class to be instantiated, that sets `type` variable.

CONTINUOUS: `ask_sdk_model.interfaces.viewport.size.continuous_viewport_size.ContinuousViewportSize`,

DISCRETE: `ask_sdk_model.interfaces.viewport.size.discrete_viewport_size.DiscreteViewportSize`

```
attribute_map = {'object_type': 'type'}
```

```
deserialized_types = {'object_type': 'str'}
```

```
discriminator_value_class_map = {'CONTINUOUS': 'ask_sdk_model.interfaces.viewport.size
```

```
classmethod get_real_child_model (data)  
    Returns the real base class specified by the discriminator
```

```
json_discriminator_key = 'type'
```

```
supports_multiple_types = False
```

```
to_dict()  
    Returns the model properties as a dict
```

```
to_str()  
    Returns the string representation of the model
```

ask_sdk_model.interfaces.viewport.video package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

`ask_sdk_model.interfaces.viewport.video.codecs` module

class `ask_sdk_model.interfaces.viewport.video.codecs.Codecs`

Bases: `enum.Enum`

A named bundle of codecs which are available for playing video on the viewport.

Allowed enum values: [`H_264_41`, `H_264_42`]

`H_264_41 = 'H_264_41'`

`H_264_42 = 'H_264_42'`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

`ask_sdk_model.interfaces.viewport.apl_viewport_state` module

class `ask_sdk_model.interfaces.viewport.apl_viewport_state.APLViewportState` (*id=None, shape=None, dpi=None, presentation_type=None, can_rotate=None, figure=None, rotation=None*)

Bases: `ask_sdk_model.interfaces.viewport.typed_viewport_state.TypedViewportState`

This object contains the characteristics related to the APL device's viewport.

Parameters

- `id` (*optional*) `str` – unique identifier of a viewport object

- **shape** ((optional) ask_sdk_model.interfaces.viewport.shape.Shape)–
- **dpi** ((optional) float)– The pixel density of the viewport.
- **presentation_type** ((optional) ask_sdk_model.interfaces.viewport.presentation_type.PresentationType)–
- **can_rotate** ((optional) bool)– Indicates if the viewport can be rotated through 90 degrees.
- **configuration** ((optional) ask_sdk_model.interfaces.viewport.apl.viewport_configuration.ViewportConfiguration)–

attribute_map = {'can_rotate': 'canRotate', 'configuration': 'configuration', 'dpi':

deserialized_types = {'can_rotate': 'bool', 'configuration': 'ask_sdk_model.interfac

supports_multiple_types = False

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.interfaces.viewport.aplt_viewport_state module

```
class ask_sdk_model.interfaces.viewport.aplt_viewport_state.APLTViewportState (id=None,
sup-
ported_profiles=None,
line_length=None,
line_count=None,
char-
acter_format=None,
in-
ter_segments=None)
```

Bases: `ask_sdk_model.interfaces.viewport.typed_viewport_state.TypedViewportState`

This object contains the characteristics related to the text device’s viewport.

Parameters

- **id** ((optional) str)– unique identifier of a viewport object
- **supported_profiles** ((optional) list[ask_sdk_model.interfaces.viewport.aplt.viewport_profile.ViewportProfile]) – List of profiles that device can emulate.
- **line_length** ((optional) int)– horizontal dimension of text display in number of characters
- **line_count** ((optional) int)– vertical dimension of text display in number of rows
- **character_format** ((optional) ask_sdk_model.interfaces.viewport.aplt.character_format.CharacterFormat)–

- **inter_segments** ((optional) list[ask_sdk_model.interfaces.viewport.aplt.inter_segment.InterSegment]) – list of inter-segment objects

```
attribute_map = {'character_format': 'characterFormat', 'id': 'id', 'inter_segments'
deserialized_types = {'character_format': 'ask_sdk_model.interfaces.viewport.aplt.cha
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.viewport.experience module

```
class ask_sdk_model.interfaces.viewport.experience.Experience(arc_minute_width=None,
arc_minute_height=None,
can_rotate=None,
can_resize=None)
```

Bases: object

An experience represents a viewing mode used to interact with the device.

Parameters

- **arc_minute_width** ((optional) float) – The number of horizontal arc minutes the viewport occupies in the user’s visual field when viewed within this experience.
- **arc_minute_height** ((optional) float) – The number of vertical arc minutes the viewport occupies in the user’s visual field when viewed within this experience.
- **can_rotate** ((optional) bool) – Indicates if the viewport can be rotated through 90 degrees.
- **can_resize** ((optional) bool) – Indicates if the viewport can be resized, limiting the area which can be used to render the APL response.

```
attribute_map = {'arc_minute_height': 'arcMinuteHeight', 'arc_minute_width': 'arcMin
deserialized_types = {'arc_minute_height': 'float', 'arc_minute_width': 'float', 'ca
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask_sdk_model.interfaces.viewport.keyboard module

```
class ask_sdk_model.interfaces.viewport.keyboard.Keyboard
```

Bases: enum.Enum

Represents a physical button input mechanism which can be used to interact with elements shown on the view-
port.

Allowed enum values: [DIRECTION]


```

DIRECTION = 'DIRECTION'

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.viewport.mode module

```

class ask_sdk_model.interfaces.viewport.mode.Mode
    Bases: enum.Enum

    The expected use case of the device's viewport, encapsulating the available input mechanisms and user viewing distance.

    Allowed enum values: [AUTO, HUB, MOBILE, PC, TV]

    AUTO = 'AUTO'
    HUB = 'HUB'
    MOBILE = 'MOBILE'
    PC = 'PC'
    TV = 'TV'

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model

```

ask_sdk_model.interfaces.viewport.presentation_type module

```

class ask_sdk_model.interfaces.viewport.presentation_type.PresentationType
    Bases: enum.Enum

    Type of the viewport. * STANDARD; Indicates that this viewport occupies an exclusive area of the screen. * OVERLAY; Indicates that the viewport is an overlay, sharing the screen with other experiences.

    Allowed enum values: [STANDARD, OVERLAY]

    OVERLAY = 'OVERLAY'
    STANDARD = 'STANDARD'

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model

```

ask_sdk_model.interfaces.viewport.shape module

```

class ask_sdk_model.interfaces.viewport.shape.Shape
    Bases: enum.Enum

```

The shape of the viewport.

Allowed enum values: [RECTANGLE, ROUND]

RECTANGLE = 'RECTANGLE'

ROUND = 'ROUND'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.viewport.touch module

class ask_sdk_model.interfaces.viewport.touch.**Touch**

Bases: `enum.Enum`

Represents a type of touch input supported by the device.

Allowed enum values: [SINGLE]

SINGLE = 'SINGLE'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.interfaces.viewport.typed_viewport_state module

class ask_sdk_model.interfaces.viewport.typed_viewport_state.**TypedViewportState** (*id=None, object_type=None*)

Bases: `object`

Parameters

- **id** (*optional str*) – unique identifier of a viewport object
- **object_type** (*optional str*) – name of the type of a viewport object

Note: This is an abstract class. Use the following mapping, to figure out the model class to be instantiated, that sets `type` variable.

APL: `ask_sdk_model.interfaces.viewport.apl_viewport_state.APLViewportState`,

APLT:

`ask_sdk_model.interfaces.viewport.aplt_viewport_state.APLTViewportState`

attribute_map = {'id': 'id', 'object_type': 'type'}

deserialized_types = {'id': 'str', 'object_type': 'str'}

```

discriminator_value_class_map = {'APL': 'ask_sdk_model.interfaces.viewport.apl_viewport'}
classmethod get_real_child_model (data)
    Returns the real base class specified by the discriminator
json_discriminator_key = 'type'
supports_multiple_types = False
to_dict ()
    Returns the model properties as a dict
to_str ()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.viewport.viewport_state module

```

class ask_sdk_model.interfaces.viewport.viewport_state.ViewportState (experiences=None,
                                                                    mode=None,
                                                                    shape=None,
                                                                    pixel_width=None,
                                                                    pixel_height=None,
                                                                    dpi=None,
                                                                    current_pixel_width=None,
                                                                    current_pixel_height=None,
                                                                    touch=None,
                                                                    keyboard=None,
                                                                    video=None)

```

Bases: `object`

This object contains the characteristics related to the device's viewport.

Parameters

- **experiences** ((optional) *list*[ask_sdk_model.interfaces.viewport.experience.Experience]) – The experiences supported by the device, in descending order of arcMinuteWidth and arcMinuteHeight.
- **mode** ((optional) ask_sdk_model.interfaces.viewport.mode.Mode) –
- **shape** ((optional) ask_sdk_model.interfaces.viewport.shape.Shape) –
- **pixel_width** ((optional) *float*) – The number of pixels present in the viewport at its maximum width.
- **pixel_height** ((optional) *float*) – The number of pixels present in the viewport at its maximum height.
- **dpi** ((optional) *float*) – The pixel density of the viewport.
- **current_pixel_width** ((optional) *float*) – The number of horizontal pixels in the viewport that are currently available for Alexa to render an experience.
- **current_pixel_height** ((optional) *float*) – The number of vertical pixels in the viewport that are currently available for Alexa to render an experience.

- **touch** ((*optional*) *list*[ask_sdk_model.interfaces.viewport.touch.Touch]) – The types of touch supported by the device. An empty array indicates no touch support.
- **keyboard** ((*optional*) *list*[ask_sdk_model.interfaces.viewport.keyboard.Keyboard]) – The physical button input mechanisms supported by the device. An empty array indicates physical button input is unsupported.
- **video** ((*optional*) ask_sdk_model.interfaces.viewport.viewport_state_video.Video) –

```

attribute_map = {'current_pixel_height': 'currentPixelHeight', 'current_pixel_width':
deserialized_types = {'current_pixel_height': 'float', 'current_pixel_width': 'float'
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.viewport.viewport_state_video module

```

class ask_sdk_model.interfaces.viewport.viewport_state_video.Video (codecs=None)
    Bases: object

```

Details of the technologies which are available for playing video on the device.

Parameters **codecs** ((*optional*) *list*[ask_sdk_model.interfaces.viewport.video.codecs.Codecs]) – Codecs which are available for playing video on the device.

```

attribute_map = {'codecs': 'codecs'}
deserialized_types = {'codecs': 'list[ask_sdk_model.interfaces.viewport.video.codecs.Codecs]'
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.interfaces.viewport.viewport_video module

```

class ask_sdk_model.interfaces.viewport.viewport_video.ViewportVideo (codecs=None)
    Bases: object

```

Details of the technologies which are available for playing video on the device.

Parameters **codecs** ((*optional*) *list*[ask_sdk_model.interfaces.viewport.video.codecs.Codecs]) – Codecs which are available for playing video on the device.

```

attribute_map = {'codecs': 'codecs'}
deserialized_types = {'codecs': 'list[ask_sdk_model.interfaces.viewport.video.codecs.Codecs]'
supports_multiple_types = False

```

```

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

9.1.6 ask_sdk_model.services package

Subpackages

ask_sdk_model.services.device_address package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.services.device_address.address module

```

class ask_sdk_model.services.device_address.address.Address (address_line1=None,
                                                         ad-
                                                         dress_line2=None,
                                                         ad-
                                                         dress_line3=None,
                                                         coun-
                                                         try_code=None,
                                                         state_or_region=None,
                                                         city=None,    dis-
                                                         trict_or_county=None,
                                                         postal_code=None)

```

Bases: `object`

Represents the full address response from the service.

Parameters

- **address_line1** (*optional str*) –
- **address_line2** (*optional str*) –
- **address_line3** (*optional str*) –
- **country_code** (*optional str*) –
- **state_or_region** (*optional str*) –
- **city** (*optional str*) –
- **district_or_county** (*optional str*) –
- **postal_code** (*optional str*) –

```

attribute_map = {'address_line1': 'addressLine1', 'address_line2': 'addressLine2', '

```

```

deserialized_types = {'address_line1': 'str', 'address_line2': 'str', 'address_line3': 'str'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_sdk_model.services.device_address.device_address_service_client module

```
class ask_sdk_model.services.device_address.device_address_service_client.DeviceAddressServiceClient
```

Bases: `ask_sdk_model.services.base_service_client.BaseServiceClient`

ServiceClient for calling the DeviceAddressService APIs.

Parameters `api_configuration` (`ask_sdk_model.services.api_configuration.ApiConfiguration`) – Instance of ApiConfiguration

get_country_and_postal_code (`device_id`, ***kwargs*)
Gets the country and postal code of a device

Parameters

- **device_id** (`str`) – (required) The device Id for which to get the country and postal code
- **full_response** (`boolean`) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[`ApiResponse`, `ShortAddress`, `Error`]

get_full_address (`device_id`, ***kwargs*)
Gets the address of a device

Parameters

- **device_id** (`str`) – (required) The device Id for which to get the address
- **full_response** (`boolean`) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[`ApiResponse`, `Address`, `Error`]

ask_sdk_model.services.device_address.error module

```
class ask_sdk_model.services.device_address.error.Error(object_type=None, message=None)
```

Bases: `object`

Parameters

- **object_type** (*(optional) str*) – The corresponding type of the http status code being returned.
- **message** (*(optional) str*) – A human readable description of error.

```

attribute_map = {'message': 'message', 'object_type': 'type'}
deserialized_types = {'message': 'str', 'object_type': 'str'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_sdk_model.services.device_address.short_address module

```

class ask_sdk_model.services.device_address.short_address.ShortAddress (country_code=None,
                                                                    postal_code=None)

```

Bases: `object`

Parameters

- `country_code` (*optional str*)–
- `postal_code` (*optional str*)–

```

attribute_map = {'country_code': 'countryCode', 'postal_code': 'postalCode'}
deserialized_types = {'country_code': 'str', 'postal_code': 'str'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_sdk_model.services.directive package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.services.directive.directive module

```

class ask_sdk_model.services.directive.directive.Directive (object_type=None)
    Bases: object

```

Parameters `object_type` (*optional str*)–

Note: This is an abstract class. Use the following mapping, to figure out the model class to be instantiated, that sets `type` variable.

VoicePlayer.Speak:

`ask_sdk_model.services.directive.speak_directive.SpeakDirective`

`attribute_map = {'object_type': 'type'}`

`deserialized_types = {'object_type': 'str'}`

`discriminator_value_class_map = {'VoicePlayer.Speak': 'ask_sdk_model.services.directive`

`classmethod get_real_child_model (data)`

Returns the real base class specified by the discriminator

`json_discriminator_key = 'type'`

`supports_multiple_types = False`

`to_dict ()`

Returns the model properties as a dict

`to_str ()`

Returns the string representation of the model

`ask_sdk_model.services.directive.directive_service_client` module

`class ask_sdk_model.services.directive.directive_service_client.DirectiveServiceClient (api_`
`cus-`
`tom-`

Bases: `ask_sdk_model.services.base_service_client.BaseServiceClient`

ServiceClient for calling the DirectiveService APIs.

Parameters `api_configuration` (`ask_sdk_model.services.api_configuration.ApiConfiguration`) – Instance of ApiConfiguration

`enqueue (send_directive_request, **kwargs)`

Send directives to Alexa.

Parameters

- **send_directive_request** (`ask_sdk_model.services.directive.send_directive_request.SendDirectiveRequest`) – (required) Represents the request object to send in the payload.
- **full_response** (`boolean`) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type `Union[ApiResponse, Error]`

`ask_sdk_model.services.directive.error` module

`class ask_sdk_model.services.directive.error.Error (code=None, message=None)`

Bases: `object`

Parameters

- **code** (`(optional) int`) – error code to find more information in developer.amazon.com.

- **message** (*optional* *str*) – Readable description of error.

```

attribute_map = {'code': 'code', 'message': 'message'}
deserialized_types = {'code': 'int', 'message': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.services.directive.header module

```

class ask_sdk_model.services.directive.header.Header(request_id=None)
    Bases: object

```

Parameters **request_id** (*optional* *str*) – This represents the current requestId for what the skill/speechlet was invoked.

```

attribute_map = {'request_id': 'requestId'}
deserialized_types = {'request_id': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.services.directive.send_directive_request module

```

class ask_sdk_model.services.directive.send_directive_request.SendDirectiveRequest(header=None, directive=None)
    Bases: object

```

Send Directive Request payload.

Parameters

- **header** (*optional* *ask_sdk_model.services.directive.header.Header*) – contains the header attributes of the send directive request.
- **directive** (*optional* *ask_sdk_model.services.directive.directive.Directive*) – Directive Content.

```

attribute_map = {'directive': 'directive', 'header': 'header'}
deserialized_types = {'directive': 'ask_sdk_model.services.directive.directive.Directive'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict

```

```
to_str()
    Returns the string representation of the model
```

ask_sdk_model.services.directive.speak_directive module

```
class ask_sdk_model.services.directive.speak_directive.SpeakDirective(speech=None)
    Bases: ask_sdk_model.services.directive.directive.Directive
```

Parameters `speech` (*optional*) `str`–

```
attribute_map = {'object_type': 'type', 'speech': 'speech'}
deserialized_types = {'object_type': 'str', 'speech': 'str'}
supports_multiple_types = False
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_sdk_model.services.endpoint_enumeration package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.services.endpoint_enumeration.endpoint_capability module

```
class ask_sdk_model.services.endpoint_enumeration.endpoint_capability.EndpointCapability(in
```

Bases: `object`

Parameters

- **interface** (*optional*) `str`– The name of the capability interface.
- **object_type** (*optional*) `str`– The type of capability interface. This is usually `AlexaInterface`.
- **version** (*optional*) `str`– The version of the capability interface that the endpoint supports.

```
attribute_map = {'interface': 'interface', 'object_type': 'type', 'version': 'versi
deserialized_types = {'interface': 'str', 'object_type': 'str', 'version': 'str'}
supports_multiple_types = False
```

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_sdk_model.services.endpoint_enumeration.endpoint_enumeration_response` module

class `ask_sdk_model.services.endpoint_enumeration.endpoint_enumeration_response.EndpointEn`
Bases: `object`

Contains the list of endpoints.

Parameters `endpoints` ((optional) `list[ask_sdk_model.services.endpoint_enumeration.endpoint_info.EndpointInfo]`) – The list of endpoints.

`attribute_map` = {'endpoints': 'endpoints'}

`deserialized_types` = {'endpoints': 'list[ask_sdk_model.services.endpoint_enumeration.

`supports_multiple_types` = `False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_sdk_model.services.endpoint_enumeration.endpoint_enumeration_service_client` module

class `ask_sdk_model.services.endpoint_enumeration.endpoint_enumeration_service_client.Endpoint`
Bases: `ask_sdk_model.services.base_service_client.BaseServiceClient`

ServiceClient for calling the EndpointEnumerationService APIs.

Parameters `api_configuration` (`ask_sdk_model.services.api_configuration.ApiConfiguration`) – Instance of ApiConfiguration

get_endpoints (**kwargs)
This API is invoked by the skill to retrieve endpoints connected to the Echo device.

Parameters `full_response` (`boolean`) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to `False`.

Return type `Union[ApiResponse, EndpointEnumerationResponse, Error]`

ask_sdk_model.services.endpoint_enumeration.endpoint_info module

```
class ask_sdk_model.services.endpoint_enumeration.endpoint_info.EndpointInfo (endpoint_id=None, friendly_name=None, capabilities=None)
```

Bases: `object`

Contains the list of connected endpoints and their declared capabilities.

Parameters

- **endpoint_id** (*optional*) *str* – A unique identifier for the endpoint.
- **friendly_name** (*optional*) *str* – The name of the endpoint. Because this name might be changed by the user or the platform, it might be different than the Bluetooth friendly name.
- **capabilities** (*optional*) *list[ask_sdk_model.services.endpoint_enumeration.endpoint_capability.EndpointCapability]* – The list of endpoint capabilities.

```
attribute_map = {'capabilities': 'capabilities', 'endpoint_id': 'endpointId', 'friendly_name': 'friendlyName'}
```

```
deserialized_types = {'capabilities': 'list[ask_sdk_model.services.endpoint_enumeration.endpoint_capability.EndpointCapability]'}
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_sdk_model.services.endpoint_enumeration.error module

```
class ask_sdk_model.services.endpoint_enumeration.error.Error (code=None, message=None)
```

Bases: `object`

Parameters

- **code** (*optional*) *str* – Domain specific error code.
- **message** (*optional*) *str* – Detailed error message.

```
attribute_map = {'code': 'code', 'message': 'message'}
```

```
deserialized_types = {'code': 'str', 'message': 'str'}
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_sdk_model.services.gadget_controller package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.services.gadget_controller.animation_step module

class `ask_sdk_model.services.gadget_controller.animation_step.AnimationStep` (*duration_ms=None, color=None, blend=None*)

Bases: `object`

Parameters

- **duration_ms** (*optional int*) – The duration in milliseconds to render this step.
- **color** (*optional str*) – The color to render specified in RGB hexadecimal values. There are a number of Node.js libraries available for working with color.
- **blend** (*optional bool*) – A boolean that indicates whether to interpolate from the previous color into this one over the course of this directive’s durationMs.

attribute_map = {'blend': 'blend', 'color': 'color', 'duration_ms': 'durationMs'}

deserialized_types = {'blend': 'bool', 'color': 'str', 'duration_ms': 'int'}

supports_multiple_types = **False**

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.services.gadget_controller.light_animation module

class `ask_sdk_model.services.gadget_controller.light_animation.LightAnimation` (*repeat=None, target_lights=None, sequence=None*)

Bases: `object`

Parameters

- **repeat** (*optional int*) – The number of times to play this animation.
- **target_lights** (*optional list[str]*) – An array of strings that represent the light addresses on the target gadgets that this animation will be applied to. Because the Echo Button has one light only, use [“1”] to signify that this animation should be sent to light one.

- **sequence** `((optional) list[ask_sdk_model.services.gadget_controller.animation_step.AnimationStep])` – The animation steps to render in order. The maximum number of steps that you can define is 38. The minimum is 0. Each step must have the following fields, all of which are required.

```

attribute_map = {'repeat': 'repeat', 'sequence': 'sequence', 'target_lights': 'target_lights'}
deserialized_types = {'repeat': 'int', 'sequence': 'list[ask_sdk_model.services.gadget_controller.animation_step.AnimationStep]'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.services.gadget_controller.set_light_parameters module

```

class ask_sdk_model.services.gadget_controller.set_light_parameters.SetLightParameters(trigg
    trigger_
    ger_
    an-
    i-
    ma-
    tions
    
```

Bases: `object`

Arguments that pertain to animating the buttons.

Parameters

- **trigger_event** `((optional) ask_sdk_model.services.gadget_controller.trigger_event_type.TriggerEventType)`–
- **trigger_event_time_ms** `((optional) int)`–
- **animations** `((optional) list[ask_sdk_model.services.gadget_controller.light_animation.LightAnimation])`–

```

attribute_map = {'animations': 'animations', 'trigger_event': 'triggerEvent', 'trigger_event_time_ms': 'triggerEventTimeMs'}
deserialized_types = {'animations': 'list[ask_sdk_model.services.gadget_controller.light_animation.LightAnimation]'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.services.gadget_controller.trigger_event_type module

```

class ask_sdk_model.services.gadget_controller.trigger_event_type.TriggerEventType
    Bases: enum.Enum
    
```

The action that triggers the animation. Possible values are as follows * ``buttonDown``; - Play the animation when the button is pressed. * ``buttonUp``; - Play the animation when the button is released. * ``none``; - Play the animation as soon as it arrives.

Allowed enum values: [buttonDown, buttonUp, none]

```
buttonDown = 'buttonDown'
```

```
buttonUp = 'buttonUp'
```

```
none = 'none'
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_sdk_model.services.game_engine package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.services.game_engine.deviation_recognizer module

class `ask_sdk_model.services.game_engine.deviation_recognizer.DeviationRecognizer` (*recognizer=*
Bases: `ask_sdk_model.services.game_engine.recognizer.Recognizer`

The deviation recognizer returns true when another specified recognizer reports that the player has deviated from its expected pattern.

Parameters `recognizer` (*optional*) *str* – The name of the recognizer that defines a pattern that must not be deviated from.

```
attribute_map = {'object_type': 'type', 'recognizer': 'recognizer'}
```

```
deserialized_types = {'object_type': 'str', 'recognizer': 'str'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_sdk_model.services.game_engine.event module

class `ask_sdk_model.services.game_engine.event.Event` (*should_end_input_handler=None,*
meets=None, fails=None,
reports=None, maximum_invocations=None, trigger_time_milliseconds=None)

Bases: `object`

The events object is where you define the conditions that must be met for your skill to be notified of Echo Button input. You must define at least one event.

Parameters

- **should_end_input_handler** ((*optional*) *bool*) – Whether the Input Handler should end after this event fires. If true, the Input Handler will stop and no further events will be sent to your skill unless you call StartInputHandler again.
- **meets** ((*optional*) *list[str]*) –
- **fails** ((*optional*) *list[str]*) –
- **reports** ((*optional*) *ask_sdk_model.services.game_engine.event_reporting_type.EventReportingType*) –
- **maximum_invocations** ((*optional*) *int*) – Enables you to limit the number of times that the skill is notified about the same event during the course of the Input Handler. The default value is 1. This property is mutually exclusive with triggerTimeMilliseconds.
- **trigger_time_milliseconds** ((*optional*) *int*) – Adds a time constraint to the event. Instead of being considered whenever a raw button event occurs, an event that has this parameter will only be considered once at triggerTimeMilliseconds after the Input Handler has started. Because a time-triggered event can only fire once, the maximumInvocations value is ignored. Omit this property entirely if you do not want to time-constrain the event.

```
attribute_map = {'fails': 'fails', 'maximum_invocations': 'maximumInvocations', 'meets': 'meets'}
```

```
deserialized_types = {'fails': 'list[str]', 'maximum_invocations': 'int', 'meets': 'EventReportingType'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

```
Returns the model properties as a dict
```

```
to_str()
```

```
Returns the string representation of the model
```

ask_sdk_model.services.game_engine.event_reporting_type module

```
class ask_sdk_model.services.game_engine.event_reporting_type.EventReportingType
```

```
Bases: enum.Enum
```

Specifies what raw button presses to put in the inputEvents field of the event. * history - All button presses since this Input Handler was started. * matches - Just the button presses that contributed to this event (that is, were in the recognizers). To receive no raw button presses, leave this array empty or do not specify it at all.

Allowed enum values: [history, matches]

```
history = 'history'
```

```
matches = 'matches'
```

```
to_dict()
```

```
Returns the model properties as a dict
```

```
to_str()
```

```
Returns the string representation of the model
```


ask_sdk_model.services.game_engine.input_event module

```
class ask_sdk_model.services.game_engine.input_event.InputEvent (gadget_id=None,
times-
tamp=None,
action=None,
color=None,
fea-
ture=None)
```

Bases: `object`

Parameters

- **gadget_id** (*(optional) str*) – The identifier of the Echo Button in question. It matches the `gadgetId` that you will have discovered in roll call.
- **timestamp** (*(optional) str*) – The event’s original moment of occurrence, in ISO format.
- **action** (*(optional) ask_sdk_model.services.game_engine.input_event_action_type.InputEventActionType*) –
- **color** (*(optional) str*) – The hexadecimal RGB values of the button LED at the time of the event.
- **feature** (*(optional) str*) – For gadgets with multiple features, this is the feature that the event represents. Echo Buttons have one feature only, so this is always `press`.

```
attribute_map = {'action': 'action', 'color': 'color', 'feature': 'feature', 'gadget
```

```
deserialized_types = {'action': 'ask_sdk_model.services.game_engine.input_event_action
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_sdk_model.services.game_engine.input_event_action_type module

```
class ask_sdk_model.services.game_engine.input_event_action_type.InputEventActionType
```

Bases: `enum.Enum`

Either `down` for a button pressed or `up` for a button released.

Allowed enum values: [down, up]

```
down = 'down'
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

```
up = 'up'
```

ask_sdk_model.services.game_engine.input_handler_event module

class ask_sdk_model.services.game_engine.input_handler_event.**InputHandlerEvent** (*name=None, in-put_events=None*)

Bases: object

Parameters

- **name** (*(optional) str*) – The name of the event as you defined it in your GameEngine.StartInputHandler directive.
- **input_events** (*(optional) list[ask_sdk_model.services.game_engine.input_event.InputEvent]*) – A chronologically ordered report of the raw Button Events that contributed to this Input Handler Event.

attribute_map = {'input_events': 'inputEvents', 'name': 'name'}

deserialized_types = {'input_events': 'list[ask_sdk_model.services.game_engine.input_

supports_multiple_types = False

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.services.game_engine.pattern module

class ask_sdk_model.services.game_engine.pattern.**Pattern** (*gadget_ids=None, colors=None, action=None, repeat=None*)

Bases: object

An object that provides all of the events that need to occur, in a specific order, for this recognizer to be true. Omitting any parameters in this object means "match anything".

Parameters

- **gadget_ids** (*(optional) list[str]*) – A whitelist of gadgetIds that are eligible for this match.
- **colors** (*(optional) list[str]*) – A whitelist of colors that are eligible for this match.
- **action** (*(optional) ask_sdk_model.services.game_engine.input_event_action_type.InputEventActionType*) –
- **repeat** (*(optional) int*) – The number of times that the specified action must occur to be considered complete.

attribute_map = {'action': 'action', 'colors': 'colors', 'gadget_ids': 'gadgetIds',

deserialized_types = {'action': 'ask_sdk_model.services.game_engine.input_event_actio

supports_multiple_types = False

to_dict ()

Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

ask_sdk_model.services.game_engine.pattern_recognizer module

class `ask_sdk_model.services.game_engine.pattern_recognizer.PatternRecognizer` (*anchor=None, fuzzy=None, gadget_ids=None, actions=None, pattern=None*)

Bases: `ask_sdk_model.services.game_engine.recognizer.Recognizer`

This recognizer is true when all of the specified events have occurred in the specified order.

Parameters

- **anchor** ((optional) `ask_sdk_model.services.game_engine.pattern_recognizer_anchor_type.PatternRecognizerAnchorType`) –
- **fuzzy** ((optional) `bool`) – When true, the recognizer will ignore additional events that occur between the events specified in the pattern.
- **gadget_ids** ((optional) `list[str]`) – The gadget IDs of the Echo Buttons to consider in this pattern recognizer.
- **actions** ((optional) `list[str]`) – The actions to consider in this pattern recognizer. All other actions will be ignored.
- **pattern** ((optional) `list[ask_sdk_model.services.game_engine.pattern.Pattern]`) – An object that provides all of the events that need to occur, in a specific order, for this recognizer to be true. Omitting any parameters in this object means “match anything”.

`attribute_map = {'actions': 'actions', 'anchor': 'anchor', 'fuzzy': 'fuzzy', 'gadget_ids': 'gadget_ids'}`

`deserialized_types = {'actions': 'list[str]', 'anchor': 'ask_sdk_model.services.game_engine.pattern_recognizer_anchor_type.PatternRecognizerAnchorType'}`

`supports_multiple_types = False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

ask_sdk_model.services.game_engine.pattern_recognizer_anchor_type module

class `ask_sdk_model.services.game_engine.pattern_recognizer_anchor_type.PatternRecognizerAnchorType`
Bases: `enum.Enum`

Where the pattern must appear in the history of this input handler. * `START`; - (Default) The first event in the pattern must be the first event in the history of raw Echo Button events. * `END`; - The last event in the pattern must be the last event in the history of raw Echo Button events. * `ANYWHERE`; - The pattern may appear anywhere in the history of raw Echo Button events.

Allowed enum values: [start, end, anywhere]

anywhere = 'anywhere'

end = 'end'

start = 'start'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.services.game_engine.progress_recognizer module

class ask_sdk_model.services.game_engine.progress_recognizer.**ProgressRecognizer** (*recognizer=None, completion=None*)

Bases: *ask_sdk_model.services.game_engine.recognizer.Recognizer*

This recognizer consults another recognizer for the degree of completion, and is true if that degree is above the specified threshold. The completion parameter is specified as a decimal percentage.

Parameters

- **recognizer** (*optional* *str*) – The name of a recognizer for which to track the progress.
- **completion** (*optional* *float*) – The completion threshold, as a decimal percentage, of the specified recognizer before which this recognizer becomes true.

attribute_map = {'completion': 'completion', 'object_type': 'type', 'recognizer': 's

deserialized_types = {'completion': 'float', 'object_type': 'str', 'recognizer': 's

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.services.game_engine.recognizer module

class ask_sdk_model.services.game_engine.recognizer.**Recognizer** (*object_type=None*)

Bases: *object*

Recognizers are conditions that, at any moment, are either true or false, based on all the raw button events that the Input Handler has received in the time elapsed since the Input Handler session started.

Parameters **object_type** (*optional* *str*) –

Note: This is an abstract class. Use the following mapping, to figure out the model class to be instantiated, that sets `type` variable.

```

match:
ask_sdk_model.services.game_engine.pattern_recognizer.PatternRecognizer,

deviation: ask_sdk_model.services.game_engine.deviation_recognizer.
DeviationRecognizer,

progress:
ask_sdk_model.services.game_engine.progress_recognizer.ProgressRecognizer

```

```

attribute_map = {'object_type': 'type'}
deserialized_types = {'object_type': 'str'}
discriminator_value_class_map = {'deviation': 'ask_sdk_model.services.game_engine.dev
classmethod get_real_child_model(data)
    Returns the real base class specified by the discriminator
json_discriminator_key = 'type'
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.services.list_management package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.services.list_management.alexalists module

```

class ask_sdk_model.services.list_management.alexalists.AlexaList(list_id=None,
name=None,
state=None,
ver-
sion=None,
items=None,
links=None)

```

Bases: `object`

Parameters

- `list_id`(*optional*) `str` –

- **name** *((optional) str)*–
- **state** *((optional) ask_sdk_model.services.list_management.list_state.ListState)*–
- **version** *((optional) int)*–
- **items** *((optional) list[ask_sdk_model.services.list_management.alexalitem.AlexaListItem])*–
- **links** *((optional) ask_sdk_model.services.list_management.links.Links)*–

```

attribute_map = {'items': 'items', 'links': 'links', 'list_id': 'listId', 'name':
deserialized_types = {'items': 'list[ask_sdk_model.services.list_management.alexalitem.AlexaListItem]'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_sdk_model.services.list_management.alexalitem module

```

class ask_sdk_model.services.list_management.alexalitem.AlexaListItem(id=None,
                                                                    version=None,
                                                                    value=None,
                                                                    status=None,
                                                                    created_time=None,
                                                                    updated_time=None,
                                                                    href=None)

```

Bases: `object`

Parameters

- **id** *((optional) str)*–
- **version** *((optional) int)*–
- **value** *((optional) str)*–
- **status** *((optional) ask_sdk_model.services.list_management.list_item_state.ListItemState)*–
- **created_time** *((optional) str)*–
- **updated_time** *((optional) str)*–
- **href** *((optional) str)*– URL to retrieve the item from.

```

attribute_map = {'created_time': 'createdTime', 'href': 'href', 'id': 'id', 'status':
deserialized_types = {'created_time': 'str', 'href': 'str', 'id': 'str', 'status':
supports_multiple_types = False

```

```

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.services.list_management.alexalistsmetadata module

```

class ask_sdk_model.services.list_management.alexalistsmetadata.AlexaListsMetadata (lists=None, name=None, state=None, version=None, status_map=None)
    
```

Bases: object

Parameters

- **list_id** (*optional str*)–
- **name** (*optional str*)–
- **state** (*optional ask_sdk_model.services.list_management.list_state.ListState*)–
- **version** (*optional int*)–
- **status_map** (*optional list[ask_sdk_model.services.list_management.status.Status]*)–

```

attribute_map = {'list_id': 'listId', 'name': 'name', 'state': 'state', 'status_map': 'statusMap'}
deserialized_types = {'list_id': 'str', 'name': 'str', 'state': 'ask_sdk_model.services.list_state.ListState', 'status_map': 'dict'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.services.list_management.alexalistmetadata module

```

class ask_sdk_model.services.list_management.alexalistmetadata.AlexaListMetadata (list=None)
    Bases: object
    
```

Parameters **list** (*optional list[ask_sdk_model.services.list_management.alexalistmetadata.AlexaListMetadata]*)–

```

attribute_map = {'lists': 'lists'}
deserialized_types = {'lists': 'list[ask_sdk_model.services.list_management.alexalistmetadata.AlexaListMetadata]'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict
    
```

`to_str()`
Returns the string representation of the model

`ask_sdk_model.services.list_management.create_list_item_request` module

class `ask_sdk_model.services.list_management.create_list_item_request.CreateListItemRequest`

Bases: `object`

Parameters

- **value** ((optional) `str`)-
- **status** ((optional) `ask_sdk_model.services.list_management.list_item_state.ListItemState`)-

`attribute_map` = {'status': 'status', 'value': 'value'}

`deserialized_types` = {'status': 'ask_sdk_model.services.list_management.list_item_state.ListItemState'}

`supports_multiple_types` = `False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_sdk_model.services.list_management.create_list_request` module

class `ask_sdk_model.services.list_management.create_list_request.CreateListRequest` (`name=None`, `state=None`)

Bases: `object`

Parameters

- **name** ((optional) `str`)-
- **state** ((optional) `ask_sdk_model.services.list_management.list_state.ListState`)-

`attribute_map` = {'name': 'name', 'state': 'state'}

`deserialized_types` = {'name': 'str', 'state': 'ask_sdk_model.services.list_management.list_state.ListState'}

`supports_multiple_types` = `False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_sdk_model.services.list_management.error` module

class `ask_sdk_model.services.list_management.error.Error` (`object_type=None`, `message=None`)

Bases: `object`

Parameters

- **object_type** *((optional) str)*–
- **message** *((optional) str)*–

```
attribute_map = {'message': 'message', 'object_type': 'type'}
```

```
deserialized_types = {'message': 'str', 'object_type': 'str'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_sdk_model.services.list_management.forbidden_error module

```
class ask_sdk_model.services.list_management.forbidden_error.ForbiddenError (message=None)
    Bases: object
```

Parameters **message** *((optional) str)*–

```
attribute_map = {'message': 'Message'}
```

```
deserialized_types = {'message': 'str'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_sdk_model.services.list_management.links module

```
class ask_sdk_model.services.list_management.links.Links (next=None)
    Bases: object
```

Parameters **next** *((optional) str)*–

```
attribute_map = {'next': 'next'}
```

```
deserialized_types = {'next': 'str'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_sdk_model.services.list_management.list_body module

```
class ask_sdk_model.services.list_management.list_body.ListBody (list_id=None)
    Bases: object
```

```
Parameters list_id (optional str)-  
attribute_map = {'list_id': 'listId'}  
deserialized_types = {'list_id': 'str'}  
supports_multiple_types = False  
to_dict ()  
    Returns the model properties as a dict  
to_str ()  
    Returns the string representation of the model
```

`ask_sdk_model.services.list_management.list_created_event_request` module

```
class ask_sdk_model.services.list_management.list_created_event_request.ListCreatedEventRe
```

Bases: `ask_sdk_model.request.Request`

Parameters

- `request_id` (*optional* `str`) – Represents the unique identifier for the specific request.
- `timestamp` (*optional* `datetime`) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- `locale` (*optional* `str`) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- `body` (*optional* `ask_sdk_model.services.list_management.list_body.ListBody`) –
- `event_creation_time` (*optional* `datetime`) –
- `event_publishing_time` (*optional* `datetime`) –

```
attribute_map = {'body': 'body', 'event_creation_time': 'eventCreationTime', 'event_  
deserialized_types = {'body': 'ask_sdk_model.services.list_management.list_body.ListB  
supports_multiple_types = False  
to_dict ()  
    Returns the model properties as a dict  
to_str ()  
    Returns the string representation of the model
```

ask_sdk_model.services.list_management.list_deleted_event_request module

```
class ask_sdk_model.services.list_management.list_deleted_event_request.ListDeletedEventRe
```

Bases: `ask_sdk_model.request.Request`

Parameters

- **request_id** (*optional* `str`) – Represents the unique identifier for the specific request.
- **timestamp** (*optional* `datetime`) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional* `str`) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **body** (*optional* `ask_sdk_model.services.list_management.list_body.ListBody`) –
- **event_creation_time** (*optional* `datetime`) –
- **event_publishing_time** (*optional* `datetime`) –

```
attribute_map = {'body': 'body', 'event_creation_time': 'eventCreationTime', 'event_
```

```
deserialized_types = {'body': 'ask_sdk_model.services.list_management.list_body.ListB
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_sdk_model.services.list_management.list_item_body module

```
class ask_sdk_model.services.list_management.list_item_body.ListItemBody (list_id=None,  
list_item_ids=None)
```

Bases: `object`

Parameters

- **list_id** (*optional* `str`) –
- **list_item_ids** (*optional* `list[str]`) –

```
attribute_map = {'list_id': 'listId', 'list_item_ids': 'listItemIds'}
```

```
deserialized_types = {'list_id': 'str', 'list_item_ids': 'list[str]'}
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```

to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.services.list_management.list_item_state module

```

class ask_sdk_model.services.list_management.list_item_state.ListItemState
    Bases: enum.Enum

    Allowed enum values: [active, completed]

    active = 'active'

    completed = 'completed'

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model
    
```

ask_sdk_model.services.list_management.list_items_created_event_request module

```

class ask_sdk_model.services.list_management.list_items_created_event_request.ListItemsCre
    
```

Bases: `ask_sdk_model.request.Request`

Parameters

- **request_id** (*optional str*) – Represents the unique identifier for the specific request.
- **timestamp** (*optional datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **body** (*optional ask_sdk_model.services.list_management.list_item_body.ListItemBody*) –
- **event_creation_time** (*optional datetime*) –
- **event_publishing_time** (*optional datetime*) –

```

attribute_map = {'body': 'body', 'event_creation_time': 'eventCreationTime', 'event_
deserialized_types = {'body': 'ask_sdk_model.services.list_management.list_item_body.
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict
    
```

`to_str()`
Returns the string representation of the model

`ask_sdk_model.services.list_management.list_items_deleted_event_request` module

class `ask_sdk_model.services.list_management.list_items_deleted_event_request.ListItemsDel`

Bases: `ask_sdk_model.request.Request`

Parameters

- **request_id** (*optional* `str`) – Represents the unique identifier for the specific request.
- **timestamp** (*optional* `datetime`) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional* `str`) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **body** (*optional* `ask_sdk_model.services.list_management.list_item_body.ListItemBody`) –
- **event_creation_time** (*optional* `datetime`) –
- **event_publishing_time** (*optional* `datetime`) –

`attribute_map = {'body': 'body', 'event_creation_time': 'eventCreationTime', 'event_`

`deserialized_types = {'body': 'ask_sdk_model.services.list_management.list_item_body.`

`supports_multiple_types = False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_sdk_model.services.list_management.list_items_updated_event_request` module

class `ask_sdk_model.services.list_management.list_items_updated_event_request.ListItemsUpda`

Bases: `ask_sdk_model.request.Request`

Parameters

- **request_id** (*optional* *str*) – Represents the unique identifier for the specific request.
- **timestamp** (*optional* *datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional* *str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **body** (*optional* `ask_sdk_model.services.list_management.list_item_body.ListItemBody`) –
- **event_creation_time** (*optional* *datetime*) –
- **event_publishing_time** (*optional* *datetime*) –

`attribute_map = {'body': 'body', 'event_creation_time': 'eventCreationTime', 'event_`

`deserialized_types = {'body': 'ask_sdk_model.services.list_management.list_item_body.`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

`ask_sdk_model.services.list_management.list_management_service_client` module

`class ask_sdk_model.services.list_management.list_management_service_client.ListManagementServiceClient`

Bases: `ask_sdk_model.services.base_service_client.BaseServiceClient`

ServiceClient for calling the ListManagementService APIs.

Parameters `api_configuration` (`ask_sdk_model.services.api_configuration.ApiConfiguration`) – Instance of ApiConfiguration

create_list (`create_list_request`, ***kwargs*)

This API creates a custom list. The new list name must be different than any existing list name.

Parameters

- **create_list_request** (`ask_sdk_model.services.list_management.create_list_request.CreateListRequest`) – (required)
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type `Union[ApiResponse, Error, AlexaListMetadata]`

create_list_item (`list_id`, `create_list_item_request`, ***kwargs*)

This API creates an item in an active list or in a default list.

Parameters

- **list_id** (*str*) – (required) The customer’s listId retrieved from a getListsMetadata call.

- **create_list_item_request** (`ask_sdk_model.services.list_management.create_list_item_request.CreateListItemRequest`) – (required)
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *AlexaListItem*, *Error*]

delete_list (*list_id*, ***kwargs*)

This API deletes a customer custom list.

Parameters

- **list_id** (*str*) – (required) Value of the customer’s listId retrieved from a getListsMetadata call
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *Error*]

delete_list_item (*list_id*, *item_id*, ***kwargs*)

This API deletes an item in the specified list.

Parameters

- **list_id** (*str*) – (required) The customer’s listId is retrieved from a getListsMetadata call.
- **item_id** (*str*) – (required) The customer’s itemId is retrieved from a GetList call.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *Error*]

get_list (*list_id*, *status*, ***kwargs*)

Retrieves the list metadata including the items in the list with requested status.

Parameters

- **list_id** (*str*) – (required) Retrieved from a call to GetListsMetadata to specify the listId in the request path.
- **status** (*str*) – (required) Specify the status of the list.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *AlexaList*, *Error*]

get_list_item (*list_id*, *item_id*, ***kwargs*)

This API can be used to retrieve single item with in any list by listId and itemId. This API can read list items from an archived list. Attempting to read list items from a deleted list return an ObjectNotFound 404 error.

Parameters

- **list_id** (*str*) – (required) Retrieved from a call to getListsMetadata

- **item_id** (*str*) – (required) itemId within a list is retrieved from a getList call
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *AlexaListItem*, *Error*]

get_lists_metadata (***kwargs*)

Retrieves the metadata for all customer lists, including the customer’s default lists.

Parameters **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ForbiddenError*, *Error*, *AlexaListsMetadata*]

update_list (*list_id*, *update_list_request*, ***kwargs*)

This API updates a custom list. Only the list name or state can be updated. An Alexa customer can turn an archived list into an active one.

Parameters

- **list_id** (*str*) – (required) Value of the customer’s listId retrieved from a getListsMetadata call.
- **update_list_request** (`ask_sdk_model.services.list_management.update_list_request.UpdateListRequest`) – (required)
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *Error*, *AlexaListMetadata*]

update_list_item (*list_id*, *item_id*, *update_list_item_request*, ***kwargs*)

API used to update an item value or item status.

Parameters

- **list_id** (*str*) – (required) Customer’s listId
- **item_id** (*str*) – (required) itemId to be updated in the list
- **update_list_item_request** (`ask_sdk_model.services.list_management.update_list_item_request.UpdateListItemRequest`) – (required)
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *AlexaListItem*, *Error*]

ask_sdk_model.services.list_management.list_state module

class ask_sdk_model.services.list_management.list_state.**ListState**

Bases: `enum.Enum`

Allowed enum values: [active, archived]

active = 'active'


```

archived = 'archived'
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.services.list_management.list_updated_event_request module

```
class ask_sdk_model.services.list_management.list_updated_event_request.ListUpdatedEventRe
```

Bases: `ask_sdk_model.request.Request`

Parameters

- **request_id** (*optional* `str`) – Represents the unique identifier for the specific request.
- **timestamp** (*optional* `datetime`) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional* `str`) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **body** (*optional* `ask_sdk_model.services.list_management.list_body.ListBody`) –
- **event_creation_time** (*optional* `datetime`) –
- **event_publishing_time** (*optional* `datetime`) –

```
attribute_map = {'body': 'body', 'event_creation_time': 'eventCreationTime', 'event_
```

```
deserialized_types = {'body': 'ask_sdk_model.services.list_management.list_body.ListB
```

```
supports_multiple_types = False
```

```

to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.services.list_management.status module

```
class ask_sdk_model.services.list_management.status.Status (url=None, status=None)
```

Bases: `object`

Parameters

- **url** (*optional* `str`) –

```

    • status ((optional) ask_sdk_model.services.list_management.
      list_item_state.ListItemState)-
attribute_map = {'status': 'status', 'url': 'url'}
deserialized_types = {'status': 'ask_sdk_model.services.list_management.list_item_sta
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.services.list_management.update_list_item_request module

```
class ask_sdk_model.services.list_management.update_list_item_request.UpdateListItemRequest
```

Bases: object

Parameters

- **value** ((optional) str) – New item value
- **status** ((optional) ask_sdk_model.services.list_management.
 list_item_state.ListItemState) – Item Status
- **version** ((optional) int) – Item version when it was read.

```

attribute_map = {'status': 'status', 'value': 'value', 'version': 'version'}
deserialized_types = {'status': 'ask_sdk_model.services.list_management.list_item_sta
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.services.list_management.update_list_request module

```
class ask_sdk_model.services.list_management.update_list_request.UpdateListRequest (name=None,
state=None,
ver-
sion=None)
```

Bases: object

Parameters

- **name** ((optional) str) –
- **state** ((optional) ask_sdk_model.services.list_management.
 list_state.ListState) –
- **version** ((optional) int) –

```

attribute_map = {'name': 'name', 'state': 'state', 'version': 'version'}
deserialized_types = {'name': 'str', 'state': 'ask_sdk_model.services.list_management'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.services.lwa package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.services.lwa.access_token module

```

class ask_sdk_model.services.lwa.access_token.AccessToken(token=None, expiry=None)

```

Bases: `object`

Represents the access token provided by LWA (Login With Amazon).

This is a wrapper class over `ask_sdk_model.services.lwa.access_token_response.AccessTokenResponse` that retrieves and stores the access token, the expiry time from LWA response.

Parameters

- **token** (*str*) – access token from LWA
- **expiry** (*datetime*) – exact timestamp in UTC datetime, which is the expiry time for this access token. This is set as the combined datetime of current system time when the LWA response is received and the expiry time in seconds, provided in the LWA response.

ask_sdk_model.services.lwa.access_token_request module

```

class ask_sdk_model.services.lwa.access_token_request.AccessTokenRequest(client_id=None, client_secret=None, scope=None, refresh_token=None)

```

Bases: `object`

Request for retrieving an access token from LWA.

Parameters

- **client_id** (*str*) – The ClientId value from developer console

- **client_secret** (*str*) – The ClientSecret value from developer console
- **scope** (*str*) – The required scope for which the access token is requested for
- **refresh_token** (*str*) – Client refresh_token required to get access token for API calls.

```
attribute_map = {'client_id': 'client_id', 'client_secret': 'client_secret', 'refresh_token': 'refresh_token'}
```

```
deserialized_types = {'client_id': 'str', 'client_secret': 'str', 'refresh_token': 'str'}
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_sdk_model.services.lwa.access_token_response module

```
class ask_sdk_model.services.lwa.access_token_response.AccessTokenResponse (access_token=None, expires_in=None, scope=None, token_type=None)
```

Bases: `object`

LWA response for retrieving an access token.

Parameters

- **access_token** (*str*) – The access token from LWA
- **expires_in** (*int*) – The duration in seconds of the access token lifetime
- **scope** (*str*) – The scope specified in the access token request
- **token_type** (*str*) – The type of token issued

```
attribute_map = {'access_token': 'access_token', 'expires_in': 'expires_in', 'scope': 'scope', 'token_type': 'token_type'}
```

```
deserialized_types = {'access_token': 'str', 'expires_in': 'int', 'scope': 'str', 'token_type': 'str'}
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_sdk_model.services.lwa.error module

```
class ask_sdk_model.services.lwa.error.Error (error_description=None, error_type=None)
```

Bases: `object`

Error from LWA Client request.

Parameters

- **error_description** (*optional str*) – Description of the error
- **error_type** (*optional str*) – Type of error

```
attribute_map = {'error_description': 'error_description', 'error_type': 'error_type'}
```

```

deserialized_types = {'error_description': 'str', 'error_type': 'str'}
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.services.lwa.lwa_client module

```

class ask_sdk_model.services.lwa.lwa_client.LwaClient(api_configuration, authentication_configuration, grant_type=None)

```

Bases: `ask_sdk_model.services.base_service_client.BaseServiceClient`

Client to call Login with Amazon (LWA) to retrieve access tokens.

Parameters

- **api_configuration** (`ask_sdk_model.services.api_configuration.ApiConfiguration`) – ApiConfiguration instance with valid Serializer and ApiClient. The authorization value and api endpoint is not used by the LWA Client.
- **authentication_configuration** (`ask_sdk_model.services.authentication_configuration.AuthenticationConfiguration`) – AuthenticationConfiguration instance with valid client id and client secret, for making LWA calls.
- **grant_type** (*(optional) str*) – The grant type which is used to make the HTTP request.

Raises `ValueError` if authentication configuration is not provided.

```
CLIENT_CREDENTIALS_GRANT_TYPE = 'client_credentials'
```

```
DEFAULT_LWA_ENDPOINT = 'https://api.amazon.com'
```

```
EXPIRY_OFFSET_IN_MILLIS = 60000
```

```
LWA_CREDENTIALS_GRANT_TYPE = 'refresh_token'
```

```
REFRESH_ACCESS_TOKEN = 'refresh_access_token'
```

```
get_access_token_for_scope(scope)
```

Retrieve access token for given scope.

Parameters `scope` (*str*) – Target scope for the access token

Returns Retrieved access token for the given scope and configured client id, client secret

Return type `str`

Raises `ValueError` is no scope is passed.

```
get_access_token_from_refresh_token()
```

Retrieve access token for Skill Management API calls.

Returns Retrieved access token for the given refresh_token and configured client id, client secret

Return type `str`

ask_sdk_model.services.monetization package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.services.monetization.entitled_state module

class `ask_sdk_model.services.monetization.entitled_state.EntitledState`

Bases: `enum.Enum`

State determining if the user is entitled to the product. Note - Any new values introduced later should be treated as 'NOT_ENTITLED'. * 'ENTITLED' - The user is entitled to the product. * 'NOT_ENTITLED' - The user is not entitled to the product.

Allowed enum values: [ENTITLED, NOT_ENTITLED]

ENTITLED = 'ENTITLED'

NOT_ENTITLED = 'NOT_ENTITLED'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.services.monetization.entitlement_reason module

class `ask_sdk_model.services.monetization.entitlement_reason.EntitlementReason`

Bases: `enum.Enum`

Reason for the entitlement status. * 'PURCHASED' - The user is entitled to the product because they purchased it. * 'NOT_PURCHASED' - The user is not entitled to the product because they have not purchased it. * 'AUTO_ENTITLED' - The user is auto entitled to the product because they have subscribed to a broader service.

Allowed enum values: [PURCHASED, NOT_PURCHASED, AUTO_ENTITLED]

AUTO_ENTITLED = 'AUTO_ENTITLED'

NOT_PURCHASED = 'NOT_PURCHASED'

PURCHASED = 'PURCHASED'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.services.monetization.error module

class ask_sdk_model.services.monetization.error.**Error** (*message=None*)

Bases: `object`

Describes error detail

Parameters *message* (*optional*) *str* – Readable description of error

attribute_map = {'message': 'message'}

deserialized_types = {'message': 'str'}

supports_multiple_types = **False**

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.services.monetization.in_skill_product module

class ask_sdk_model.services.monetization.in_skill_product.**InSkillProduct** (*product_id=None,*

reference_name=None,
name=None,
object_type=None,
summary=None,
purchaseable=None,
entitled=None,
entitlement_reason=None,
active_entitlement_count=None,
purchase_mode=None)

Bases: `object`

Parameters

- **product_id** (*optional*) *str* – Product Id
- **reference_name** (*optional*) *str* – Developer selected in-skill product name. This is for developer reference only.
- **name** (*optional*) *str* – Name of the product in the language from the "Accept-Language" header
- **object_type** (*optional*) `ask_sdk_model.services.monetization.product_type.ProductType` –

- **summary** ((*optional*) *str*) – Product summary in the language from the "Accept-Language" header
- **purchasable** ((*optional*) `ask_sdk_model.services.monetization.purchasable_state.PurchasableState`)–
- **entitled** ((*optional*) `ask_sdk_model.services.monetization.entitled_state.EntitledState`)–
- **entitlement_reason** ((*optional*) `ask_sdk_model.services.monetization.entitlement_reason.EntitlementReason`)–
- **active_entitlement_count** ((*optional*) *int*) – Total active purchases of the product made by the user. Note - For ENTITLEMENT and SUBSCRIPTION product types, the value is either zero(NOT_ENTITLED) or one(ENTITLED). For CONSUMABLE product type the value is zero or more, as CONSUMABLE can be re-purchased.
- **purchase_mode** ((*optional*) `ask_sdk_model.services.monetization.purchase_mode.PurchaseMode`)–

```

attribute_map = {'active_entitlement_count': 'activeEntitlementCount', 'entitled': 'entitled'}
deserialized_types = {'active_entitlement_count': 'int', 'entitled': 'ask_sdk_model.services.monetization.entitled_state.EntitledState'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_sdk_model.services.monetization.in_skill_product_transactions_response module

```
class ask_sdk_model.services.monetization.in_skill_product_transactions_response.InSkillProductTransactionsResponse:
```

Bases: object

Parameters

- **results** ((*optional*) *list*[`ask_sdk_model.services.monetization.transactions.Transactions`]) – List of transactions of in skill products purchases
- **metadata** ((*optional*) `ask_sdk_model.services.monetization.metadata.Metadata`)–

```

attribute_map = {'metadata': 'metadata', 'results': 'results'}
deserialized_types = {'metadata': 'ask_sdk_model.services.monetization.metadata.Metadata', 'results': 'ask_sdk_model.services.monetization.transactions.Transactions'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```


ask_sdk_model.services.monetization.in_skill_products_response module

```
class ask_sdk_model.services.monetization.in_skill_products_response.InSkillProductsResponse
```

Bases: `object`

Parameters

- **in_skill_products** ((optional) `list[ask_sdk_model.services.monetization.in_skill_product.InSkillProduct]`) – List of In-Skill Products
- **is_truncated**((optional) `bool`)-
- **next_token**((optional) `str`)-

```
attribute_map = {'in_skill_products': 'inSkillProducts', 'is_truncated': 'isTruncated'}
```

```
deserialized_types = {'in_skill_products': 'list[ask_sdk_model.services.monetization.in_skill_product.InSkillProduct]'}
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_sdk_model.services.monetization.metadata module

```
class ask_sdk_model.services.monetization.metadata.Metadata(result_set=None)
```

Bases: `object`

Parameters **result_set** ((optional) `ask_sdk_model.services.monetization.result_set.ResultSet`)-

```
attribute_map = {'result_set': 'resultSet'}
```

```
deserialized_types = {'result_set': 'ask_sdk_model.services.monetization.result_set.ResultSet'}
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_sdk_model.services.monetization.monetization_service_client module

```
class ask_sdk_model.services.monetization.monetization_service_client.MonetizationServiceClient
```

Bases: `ask_sdk_model.services.base_service_client.BaseServiceClient`

ServiceClient for calling the MonetizationService APIs.

Parameters **api_configuration** (`ask_sdk_model.services.api_configuration.ApiConfiguration`) – Instance of ApiConfiguration

get_in_skill_product (*accept_language*, *product_id*, ***kwargs*)
 Get In-Skill Product information based on user context for the Skill.

Parameters

- **accept_language** (*str*) – (required) User’s locale/language in context
- **product_id** (*str*) – (required) Product Id.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *Error*, *InSkillProduct*]

get_in_skill_products (*accept_language*, ***kwargs*)
 Gets In-Skill Products based on user’s context for the Skill.

Parameters

- **accept_language** (*str*) – (required) User’s locale/language in context
- **purchasable** (*str*) – Filter products based on whether they are purchasable by the user or not. * ‘PURCHASABLE’ - Products that are purchasable by the user. * ‘NOT_PURCHASABLE’ - Products that are not purchasable by the user.
- **entitled** (*str*) – Filter products based on whether they are entitled to the user or not. * ‘ENTITLED’ - Products that the user is entitled to. * ‘NOT_ENTITLED’ - Products that the user is not entitled to.
- **product_type** (*str*) – Product type. * ‘SUBSCRIPTION’ - Once purchased, customers will own the content for the subscription period. * ‘ENTITLEMENT’ - Once purchased, customers will own the content forever. * ‘CONSUMABLE’ - Once purchased, customers will be entitled to the content until it is consumed. It can also be re-purchased.
- **next_token** (*str*) – When response to this API call is truncated (that is, isTruncated response element value is true), the response also includes the nextToken element, the value of which can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that In-Skill Products API understands. Token has expiry of 24 hours.
- **max_results** (*float*) – sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 100 results, you can add this parameter to your request. maxResults should not exceed the upper limit. The response might contain fewer results than maxResults, but it will never contain more. If there are additional results that satisfy the search criteria, but these results were not returned because maxResults was exceeded, the response contains isTruncated = true.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *Error*, *InSkillProductsResponse*]

get_in_skill_products_transactions (*accept_language*, ***kwargs*)
 Returns transactions of all in skill products purchases of the customer

Parameters

- **accept_language** (*str*) – (required) User’s locale/language in context
- **product_id** (*str*) – Product Id.

- **status** (*str*) – Transaction status for in skill product purchases. * 'PENDING_APPROVAL_BY_PARENT' - The transaction is pending approval from parent. * 'APPROVED_BY_PARENT' - The transaction was approved by parent and fulfilled successfully.. * 'DENIED_BY_PARENT' - The transaction was declined by parent and hence not fulfilled. * 'EXPIRED_NO_ACTION_BY_PARENT' - The transaction was expired due to no response from parent and hence not fulfilled. * 'ERROR' - The transaction was not fulfilled as there was an error while processing the transaction.
- **from_last_modified_time** (*datetime*) – Filter transactions based on last modified time stamp, FROM duration in format (UTC ISO 8601) i.e. yyyy-MM-dd'T'HH:mm:ss.SSS'Z'
- **to_last_modified_time** (*datetime*) – Filter transactions based on last modified time stamp, TO duration in format (UTC ISO 8601) i.e. yyyy-MM-dd'T'HH:mm:ss.SSS'Z'
- **next_token** (*str*) – When response to this API call is truncated, the response also includes the nextToken in metadata, the value of which can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that In-Skill Products API understands. Token has expiry of 24 hours.
- **max_results** (*float*) – sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 100 results, you can add this parameter to your request. maxResults should not exceed the upper limit. The response might contain fewer results than maxResults, but it will never contain more. If there are additional results that satisfy the search criteria, but these results were not returned because maxResults was exceeded, the response contains nextToken which can be used to fetch next set of result.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *Error*, *InSkillProductTransactionsResponse*]

get_voice_purchase_setting (**kwargs)

Returns whether or not voice purchasing is enabled for the skill

Parameters full_response (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *bool*, *Error*]

ask_sdk_model.services.monetization.product_type module

class ask_sdk_model.services.monetization.product_type.**ProductType**

Bases: *enum.Enum*

Product type. * 'SUBSCRIPTION' - Once purchased, customers will own the content for the subscription period. * 'ENTITLEMENT' - Once purchased, customers will own the content forever. * 'CONSUMABLE' - Once purchased, customers will be entitled to the content until it is consumed. It can also be re-purchased.

Allowed enum values: [SUBSCRIPTION, ENTITLEMENT, CONSUMABLE]

CONSUMABLE = 'CONSUMABLE'

ENTITLEMENT = 'ENTITLEMENT'

SUBSCRIPTION = 'SUBSCRIPTION'

```
to_dict ()
    Returns the model properties as a dict

to_str ()
    Returns the string representation of the model
```

ask_sdk_model.services.monetization.purchasable_state module

```
class ask_sdk_model.services.monetization.purchasable_state.PurchasableState
    Bases: enum.Enum

    State determining if the product is purchasable by the user. Note - Any new values introduced later should
    be treated as 'NOT_PURCHASABLE'. * 'PURCHASABLE' - The product is purchasable by the user. *
    'NOT_PURCHASABLE' - The product is not purchasable by the user.

    Allowed enum values: [PURCHASABLE, NOT_PURCHASABLE]

    NOT_PURCHASABLE = 'NOT_PURCHASABLE'

    PURCHASABLE = 'PURCHASABLE'

to_dict ()
    Returns the model properties as a dict

to_str ()
    Returns the string representation of the model
```

ask_sdk_model.services.monetization.purchase_mode module

```
class ask_sdk_model.services.monetization.purchase_mode.PurchaseMode
    Bases: enum.Enum

    Indicates if the entitlements are for TEST or LIVE purchases. * 'TEST' - test purchases made by developers or
    beta testers. Purchase not sent to payment processing. * 'LIVE' - purchases made by live customers. Purchase
    sent to payment processing.

    Allowed enum values: [TEST, LIVE]

    LIVE = 'LIVE'

    TEST = 'TEST'

to_dict ()
    Returns the model properties as a dict

to_str ()
    Returns the string representation of the model
```

ask_sdk_model.services.monetization.result_set module

```
class ask_sdk_model.services.monetization.result_set.ResultSet (next_token=None)
    Bases: object

    Parameters next_token (optional) str -

    attribute_map = {'next_token': 'nextToken'}

    deserialized_types = {'next_token': 'str'}
```

```

supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_sdk_model.services.monetization.status module

```
class ask_sdk_model.services.monetization.status.Status
```

```
Bases: enum.Enum
```

Transaction status for in skill product purchases. * 'PENDING_APPROVAL_BY_PARENT' - The transaction is pending approval from parent. * 'APPROVED_BY_PARENT' - The transaction was approved by parent and fulfilled successfully. * 'DENIED_BY_PARENT' - The transaction was declined by parent and hence not fulfilled. * 'EXPIRED_NO_ACTION_BY_PARENT' - The transaction was expired due to no response from parent and hence not fulfilled. * 'ERROR' - The transaction was not fulfilled as there was an error while processing the transaction.

Allowed enum values: [PENDING_APPROVAL_BY_PARENT, APPROVED_BY_PARENT, DENIED_BY_PARENT, EXPIRED_NO_ACTION_BY_PARENT, ERROR]

```
APPROVED_BY_PARENT = 'APPROVED_BY_PARENT'
```

```
DENIED_BY_PARENT = 'DENIED_BY_PARENT'
```

```
ERROR = 'ERROR'
```

```
EXPIRED_NO_ACTION_BY_PARENT = 'EXPIRED_NO_ACTION_BY_PARENT'
```

```
PENDING_APPROVAL_BY_PARENT = 'PENDING_APPROVAL_BY_PARENT'
```

```

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_sdk_model.services.monetization.transactions module

```
class ask_sdk_model.services.monetization.transactions.Transactions (status=None,
                                                                    prod-
                                                                    uct_id=None,
                                                                    cre-
                                                                    ated_time=None,
                                                                    last_modified_time=None)
```

```
Bases: object
```

Parameters

- **status** ((optional) `ask_sdk_model.services.monetization.status.Status`) –
- **product_id** ((optional) `str`) – Product Id
- **created_time** ((optional) `datetime`) – Time at which transaction's was initiated in ISO 8601 format i.e. yyyy-MM-dd'T'HH:mm:ss.SSS'Z'

- **last_modified_time** (*optional* *datetime*) – Time at which transaction’s status was last updated in ISO 8601 format i.e. yyyy-MM-dd'T'HH:mm:ss.SSS'Z'

```
attribute_map = {'created_time': 'createdTime', 'last_modified_time': 'lastModifiedT
```

```
deserialized_types = {'created_time': 'datetime', 'last_modified_time': 'datetime',
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_sdk_model.services.proactive_events package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.services.proactive_events.create_proactive_event_request module

```
class ask_sdk_model.services.proactive_events.create_proactive_event_request.CreateProacti
```

Bases: `object`

Parameters

- **timestamp** (*optional* *datetime*) – The date and time of the event associated with this request, in ISO 8601 format.
- **reference_id** (*optional* *str*) – Client-supplied ID for correlating the event with external entities. The allowed characters for the `referenceId` field are alphanumeric and `~`, and the length of the `referenceId` field must be 1-100 characters.
- **expiry_time** (*optional* *datetime*) – The date and time, in ISO 8601 format, when the service will automatically delete the notification if it is still in the pending state.

- **event** ((*optional*) ask_sdk_model.services.proactive_events.event.Event)–
- **localized_attributes** ((*optional*) list[object])– A list of items, each of which contains the set of event attributes that requires localization support.
- **relevant_audience** ((*optional*) ask_sdk_model.services.proactive_events.relevant_audience.RelevantAudience)–

attribute_map = {'event': 'event', 'expiry_time': 'expiryTime', 'localized_attribute

deserialized_types = {'event': 'ask_sdk_model.services.proactive_events.event.Event',

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.services.proactive_events.error module

class ask_sdk_model.services.proactive_events.error.**Error** (*code=None, message=None*)

Bases: object

Parameters

- **code** ((*optional*) int)–
- **message** ((*optional*) str)–

attribute_map = {'code': 'code', 'message': 'message'}

deserialized_types = {'code': 'int', 'message': 'str'}

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.services.proactive_events.event module

class ask_sdk_model.services.proactive_events.event.**Event** (*name=None, payload=None*)

Bases: object

The event data to be sent to customers, conforming to the schema associated with this event.

Parameters

- **name** ((*optional*) str)–
- **payload** ((*optional*) object)–

attribute_map = {'name': 'name', 'payload': 'payload'}

deserialized_types = {'name': 'str', 'payload': 'object'}

```

supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.services.proactive_events.proactive_events_service_client module

```

class ask_sdk_model.services.proactive_events.proactive_events_service_client.ProactiveEvent
    
```

Bases: `ask_sdk_model.services.base_service_client.BaseServiceClient`

ServiceClient for calling the ProactiveEventsService APIs.

Parameters `api_configuration` (`ask_sdk_model.services.api_configuration.ApiConfiguration`) – Instance of ApiConfiguration

create_proactive_event (`create_proactive_event_request`, `stage`, ****kwargs**)
 Create a new proactive event in live stage.

Parameters

- **create_proactive_event_request** (`ask_sdk_model.services.proactive_events.create_proactive_event_request.CreateProactiveEventRequest`) – (required) Request to create a new proactive event.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type `Union[ApiResponse, Error]`

ask_sdk_model.services.proactive_events.relevant_audience module

```

class ask_sdk_model.services.proactive_events.relevant_audience.RelevantAudience (object_type=
    pay-
    load=None)
    
```

Bases: `object`

The audience for this event.

Parameters

- **object_type** (*(optional)* `ask_sdk_model.services.proactive_events.relevant_audience_type.RelevantAudienceType`) –

- **payload** (*optional* *object*) – If `relevantAudience.type` is set to `Multicast`, then the payload object is empty. Otherwise, the `userId` value for which the event is targeted is required.

```
attribute_map = {'object_type': 'type', 'payload': 'payload'}
```

```
deserialized_types = {'object_type': 'ask_sdk_model.services.proactive_events.relevant_audience_type'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

`ask_sdk_model.services.proactive_events.relevant_audience_type` module

```
class ask_sdk_model.services.proactive_events.relevant_audience_type.RelevantAudienceType
```

Bases: `enum.Enum`

The audience for this event. Use `Multicast` to target information to all customers subscribed to that event, or use `Unicast` to target information containing the actual `userId` for individual events.

Allowed enum values: [`Unicast`, `Multicast`]

```
Multicast = 'Multicast'
```

```
Unicast = 'Unicast'
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

`ask_sdk_model.services.proactive_events.skill_stage` module

```
class ask_sdk_model.services.proactive_events.skill_stage.SkillStage
```

Bases: `enum.Enum`

Stage for creating Proactive events. Since proactive events can be created on the `DEVELOPMENT` and `LIVE` stages of the skill, this enum provides the stage values that can be used to pass to the service call.

Allowed enum values: [`DEVELOPMENT`, `LIVE`]

```
DEVELOPMENT = 'DEVELOPMENT'
```

```
LIVE = 'LIVE'
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_sdk_model.services.reminder_management package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.services.reminder_management.alert_info module

class `ask_sdk_model.services.reminder_management.alert_info.AlertInfo` (*spoken_info=None*)

Bases: `object`

Alert info for VUI / GUI

Parameters `spoken_info` ((*optional*) `ask_sdk_model.services.reminder_management.alert_info_spoken_info.SpokenInfo`)–

attribute_map = {'spoken_info': 'spokenInfo'}

deserialized_types = {'spoken_info': 'ask_sdk_model.services.reminder_management.alert_info_spoken_info.SpokenInfo'}

supports_multiple_types = `False`

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.services.reminder_management.alert_info_spoken_info module

class `ask_sdk_model.services.reminder_management.alert_info_spoken_info.SpokenInfo` (*content=None*)

Bases: `object`

Parameters for VUI presentation of the reminder

Parameters `content` ((*optional*) `list[ask_sdk_model.services.reminder_management.spoken_text.SpokenText]`)–

attribute_map = {'content': 'content'}

deserialized_types = {'content': 'list[ask_sdk_model.services.reminder_management.spoken_text.SpokenText]'}

supports_multiple_types = `False`

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.services.reminder_management.error module

```
class ask_sdk_model.services.reminder_management.error.Error (code=None, message=None)
```

Bases: `object`

Parameters

- **code** (*optional str*) – Domain specific error code
- **message** (*optional str*) – Detailed error message

```
attribute_map = {'code': 'code', 'message': 'message'}
```

```
deserialized_types = {'code': 'str', 'message': 'str'}
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_sdk_model.services.reminder_management.event module

```
class ask_sdk_model.services.reminder_management.event.Event (status=None, alert_token=None)
```

Bases: `object`

Parameters

- **status** (*optional ask_sdk_model.services.reminder_management.status.Status*) –
- **alert_token** (*optional str*) –

```
attribute_map = {'alert_token': 'alertToken', 'status': 'status'}
```

```
deserialized_types = {'alert_token': 'str', 'status': 'ask_sdk_model.services.reminder_management.status.Status'}
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_sdk_model.services.reminder_management.get_reminder_response module

class ask_sdk_model.services.reminder_management.get_reminder_response.**GetReminderResponse**

Bases: `ask_sdk_model.services.reminder_management.reminder.Reminder`

Response object for get reminder request

Parameters

- **alert_token** (*optional* `str`) – Unique id of this reminder alert
- **created_time** (*optional* `datetime`) – Valid ISO 8601 format - Creation time of this reminder alert
- **updated_time** (*optional* `datetime`) – Valid ISO 8601 format - Last updated time of this reminder alert
- **status** (*optional* `ask_sdk_model.services.reminder_management.status.Status`) –
- **trigger** (*optional* `ask_sdk_model.services.reminder_management.trigger.Trigger`) –
- **alert_info** (*optional* `ask_sdk_model.services.reminder_management.alert_info.AlertInfo`) –
- **push_notification** (*optional* `ask_sdk_model.services.reminder_management.push_notification.PushNotification`) –
- **version** (*optional* `str`) – Version of reminder alert

`attribute_map = {'alert_info': 'alertInfo', 'alert_token': 'alertToken', 'created_time': 'createdTime'}`

`deserialized_types = {'alert_info': 'ask_sdk_model.services.reminder_management.alert_info.AlertInfo', 'alert_token': 'ask_sdk_model.services.reminder_management.alert_token.AlertToken', 'created_time': 'ask_sdk_model.services.reminder_management.alert_info.CreatedTime', 'status': 'ask_sdk_model.services.reminder_management.status.Status', 'trigger': 'ask_sdk_model.services.reminder_management.trigger.Trigger', 'push_notification': 'ask_sdk_model.services.reminder_management.push_notification.PushNotification', 'version': 'ask_sdk_model.services.reminder_management.alert_info.Version'}`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

ask_sdk_model.services.reminder_management.get_reminders_response module

class ask_sdk_model.services.reminder_management.get_reminders_response.**GetRemindersResponse**

Bases: `object`

Response object for get reminders request

Parameters

- **total_count** (*optional*) *str* – Total count of reminders returned
- **alerts** (*optional*) *list[ask_sdk_model.services.reminder_management.reminder.Reminder]* – List of reminders
- **links** (*optional*) *str* – Link to retrieve next set of alerts if total count is greater than max results

```
attribute_map = {'alerts': 'alerts', 'links': 'links', 'total_count': 'totalCount'}
```

```
deserialized_types = {'alerts': 'list[ask_sdk_model.services.reminder_management.reminder.Reminder]'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_sdk_model.services.reminder_management.push_notification module

```
class ask_sdk_model.services.reminder_management.push_notification.PushNotification(status=None)
```

Bases: `object`

Enable / disable reminders push notifications to Alexa mobile apps

Parameters **status** (*optional*) *ask_sdk_model.services.reminder_management.push_notification_status.PushNotificationStatus* –

```
attribute_map = {'status': 'status'}
```

```
deserialized_types = {'status': 'ask_sdk_model.services.reminder_management.push_notification_status.PushNotificationStatus'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_sdk_model.services.reminder_management.push_notification_status module

```
class ask_sdk_model.services.reminder_management.push_notification_status.PushNotificationStatus
```

Bases: `enum.Enum`

Push notification status - Enabled/Disabled

Allowed enum values: [ENABLED, DISABLED]

```
DISABLED = 'DISABLED'
```

```
ENABLED = 'ENABLED'
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
    Returns the string representation of the model
```

ask_sdk_model.services.reminder_management.recurrence module

```
class ask_sdk_model.services.reminder_management.recurrence.Recurrence (freq=None,
                                                                    by_day=None,
                                                                    in-
                                                                    ter-
                                                                    val=None,
                                                                    start_date_time=None,
                                                                    end_date_time=None,
                                                                    re-
                                                                    cur-
                                                                    rence_rules=None)
```

Bases: `object`

Recurring date/time using the RFC 5545 standard in JSON object form

Parameters

- **freq** ((*optional*) `ask_sdk_model.services.reminder_management.recurrence_freq.RecurrenceFreq`) –
- **by_day** ((*optional*) `list[ask_sdk_model.services.reminder_management.recurrence_day.RecurrenceDay]`) –
- **interval** ((*optional*) `int`) – contains a positive integer representing at which intervals the recurrence rule repeats
- **start_date_time** ((*optional*) `datetime`) – Valid ISO 8601 format - optional start DateTime of recurrence.
- **end_date_time** ((*optional*) `datetime`) – Valid ISO 8601 format - optional end DateTime of recurrence
- **recurrence_rules** ((*optional*) `list[str]`) –

```
attribute_map = {'by_day': 'byDay', 'end_date_time': 'endDateTime', 'freq': 'freq',
```

```
deserialized_types = {'by_day': 'list[ask_sdk_model.services.reminder_management.recu
```

```
supports_multiple_types = False
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_sdk_model.services.reminder_management.recurrence_day module

```
class ask_sdk_model.services.reminder_management.recurrence_day.RecurrenceDay
    Bases: enum.Enum
```

Day of recurrence. Deprecated.

Allowed enum values: [SU, MO, TU, WE, TH, FR, SA]

```
FR = 'FR'
```

```

MO = 'MO'
SA = 'SA'
SU = 'SU'
TH = 'TH'
TU = 'TU'
WE = 'WE'
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.services.reminder_management.recurrence_freq module

```

class ask_sdk_model.services.reminder_management.recurrence_freq.RecurrenceFreq
    Bases: enum.Enum
    Frequency of recurrence. Deprecated.
    Allowed enum values: [WEEKLY, DAILY]
    DAILY = 'DAILY'
    WEEKLY = 'WEEKLY'
    to_dict()
        Returns the model properties as a dict
    to_str()
        Returns the string representation of the model

```

ask_sdk_model.services.reminder_management.reminder module

```

class ask_sdk_model.services.reminder_management.reminder.Reminder (alert_token=None,
                                                                    cre-
                                                                    ated_time=None,
                                                                    up-
                                                                    dated_time=None,
                                                                    sta-
                                                                    tus=None,
                                                                    trig-
                                                                    ger=None,
                                                                    alert_info=None,
                                                                    push_notification=None,
                                                                    ver-
                                                                    sion=None)
    Bases: object
    Reminder object
    Parameters
        • alert_token ((optional) str) – Unique id of this reminder alert

```

- **created_time** (*optional* *datetime*) – Valid ISO 8601 format - Creation time of this reminder alert
- **updated_time** (*optional* *datetime*) – Valid ISO 8601 format - Last updated time of this reminder alert
- **status** (*optional* `ask_sdk_model.services.reminder_management.status.Status`)–
- **trigger** (*optional* `ask_sdk_model.services.reminder_management.trigger.Trigger`)–
- **alert_info** (*optional* `ask_sdk_model.services.reminder_management.alert_info.AlertInfo`)–
- **push_notification** (*optional* `ask_sdk_model.services.reminder_management.push_notification.PushNotification`)–
- **version** (*optional* *str*) – Version of reminder alert

```

attribute_map = {'alert_info': 'alertInfo', 'alert_token': 'alertToken', 'created_time': 'createdTime', 'updated_time': 'updatedTime', 'status': 'status', 'trigger': 'trigger', 'alert_info': 'alertInfo', 'push_notification': 'pushNotification', 'version': 'version'}
deserialized_types = {'alert_info': 'ask_sdk_model.services.reminder_management.alert_info.AlertInfo', 'push_notification': 'ask_sdk_model.services.reminder_management.push_notification.PushNotification', 'version': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

`ask_sdk_model.services.reminder_management.reminder_created_event_request` module

```
class ask_sdk_model.services.reminder_management.reminder_created_event_request.ReminderCreatedEventRequest
```

Bases: `ask_sdk_model.request.Request`

Parameters

- **request_id** (*optional* *str*) – Represents the unique identifier for the specific request.
- **timestamp** (*optional* *datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional* *str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **body** (*optional* `ask_sdk_model.services.reminder_management.event.Event`)–

```

attribute_map = {'body': 'body', 'locale': 'locale', 'object_type': 'type', 'request_id': 'requestId', 'timestamp': 'timestamp', 'locale': 'locale', 'body': 'body'}
deserialized_types = {'body': 'ask_sdk_model.services.reminder_management.event.Event', 'request_id': 'str', 'timestamp': 'datetime', 'locale': 'str', 'body': 'ask_sdk_model.services.reminder_management.event.Event'}
supports_multiple_types = False

```



```

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

`ask_sdk_model.services.reminder_management.reminder_deleted_event` module

```

class ask_sdk_model.services.reminder_management.reminder_deleted_event.ReminderDeletedEvent
    Bases: object

        Parameters alert_tokens (optional) list[str] –

    attribute_map = {'alert_tokens': 'alertTokens'}
    deserialized_types = {'alert_tokens': 'list[str]'}
    supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

`ask_sdk_model.services.reminder_management.reminder_deleted_event_request` module

```

class ask_sdk_model.services.reminder_management.reminder_deleted_event_request.ReminderDeletedEventRequest
    Bases: ask_sdk_model.request.Request

        Parameters
        • request_id (optional) str – Represents the unique identifier for the specific request.
        • timestamp (optional) datetime – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
        • locale (optional) str – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
        • body (optional) ask_sdk_model.services.reminder_management.reminder_deleted_event.ReminderDeletedEvent –

    attribute_map = {'body': 'body', 'locale': 'locale', 'object_type': 'type', 'request_id': 'requestId', 'timestamp': 'timestamp'}
    deserialized_types = {'body': 'ask_sdk_model.services.reminder_management.reminder_deleted_event.ReminderDeletedEvent'}
    supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_sdk_model.services.reminder_management.reminder_management_service_client module

class ask_sdk_model.services.reminder_management.reminder_management_service_client.**ReminderManagementServiceClient**

Bases: *ask_sdk_model.services.base_service_client.BaseServiceClient*

ServiceClient for calling the ReminderManagementService APIs.

Parameters **api_configuration** (*ask_sdk_model.services.api_configuration.ApiConfiguration*) – Instance of ApiConfiguration

create_reminder (*reminder_request, **kwargs*)

This API is invoked by the skill to create a new reminder.

Parameters

- **reminder_request** (*ask_sdk_model.services.reminder_management.reminder_request.ReminderRequest*) – (required)
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse, ReminderResponse, Error*]

delete_reminder (*alert_token, **kwargs*)

This API is invoked by the skill to delete a single reminder.

Parameters

- **alert_token** (*str*) – (required)
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse, Error*]

get_reminder (*alert_token, **kwargs*)

This API is invoked by the skill to get a single reminder.

Parameters

- **alert_token** (*str*) – (required)
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse, GetReminderResponse, Error*]

get_reminders (***kwargs*)

This API is invoked by the skill to get a all reminders created by the caller.

Parameters **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse, GetRemindersResponse, Error*]

update_reminder (*alert_token, reminder_request, **kwargs*)

This API is invoked by the skill to update a reminder.

Parameters

- **alert_token** (*str*) – (required)
- **reminder_request** (*ask_sdk_model.services.reminder_management.reminder_request.ReminderRequest*) – (required)
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ReminderResponse*, *Error*]

ask_sdk_model.services.reminder_management.reminder_request module

class ask_sdk_model.services.reminder_management.reminder_request.**ReminderRequest** (*request_time*, *trigger=*None, *alert_info=*None, *push_notification*)

Bases: object

Input request for creating a reminder

Parameters

- **request_time** (*(optional) datetime*) – Valid ISO 8601 format - Creation time of this reminder alert
- **trigger** (*(optional) ask_sdk_model.services.reminder_management.trigger.Trigger*) –
- **alert_info** (*(optional) ask_sdk_model.services.reminder_management.alert_info.AlertInfo*) –
- **push_notification** (*(optional) ask_sdk_model.services.reminder_management.push_notification.PushNotification*) –

attribute_map = {'alert_info': 'alertInfo', 'push_notification': 'pushNotification',

deserialized_types = {'alert_info': 'ask_sdk_model.services.reminder_management.alert

supports_multiple_types = False

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.services.reminder_management.reminder_response module

```
class ask_sdk_model.services.reminder_management.reminder_response.ReminderResponse (alert_token,
created_time,
updated_time,
status=None,
version=None,
href=None)
```

Bases: `object`

Response object for post/put/delete reminder request

Parameters

- **alert_token** (*optional str*) – Unique id of this reminder alert
- **created_time** (*optional str*) – Valid ISO 8601 format - Creation time of this reminder alert
- **updated_time** (*optional str*) – Valid ISO 8601 format - Last updated time of this reminder alert
- **status** (*optional ask_sdk_model.services.reminder_management.status.Status*) –
- **version** (*optional str*) – Version of reminder alert
- **href** (*optional str*) – URI to retrieve the created alert

```
attribute_map = {'alert_token': 'alertToken', 'created_time': 'createdTime', 'href':
```

```
deserialized_types = {'alert_token': 'str', 'created_time': 'str', 'href': 'str',
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_sdk_model.services.reminder_management.reminder_started_event_request module

```
class ask_sdk_model.services.reminder_management.reminder_started_event_request.ReminderSt
```

Bases: `ask_sdk_model.request.Request`

Parameters

- **request_id** (*optional str*) – Represents the unique identifier for the specific request.

- **timestamp** (*optional* *datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional* *str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **body** (*optional* `ask_sdk_model.services.reminder_management.event.Event`) –

```
attribute_map = {'body': 'body', 'locale': 'locale', 'object_type': 'type', 'request_type': 'request_type'}
```

```
deserialized_types = {'body': 'ask_sdk_model.services.reminder_management.event.Event'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

```
Returns the model properties as a dict
```

```
to_str()
```

```
Returns the string representation of the model
```

`ask_sdk_model.services.reminder_management.reminder_status_changed_event_request` module

```
class ask_sdk_model.services.reminder_management.reminder_status_changed_event_request.ReminderStatusChangedEventRequest
```

Bases: `ask_sdk_model.request.Request`

Parameters

- **request_id** (*optional* *str*) – Represents the unique identifier for the specific request.
- **timestamp** (*optional* *datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional* *str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **body** (*optional* `ask_sdk_model.services.reminder_management.event.Event`) –

```
attribute_map = {'body': 'body', 'locale': 'locale', 'object_type': 'type', 'request_type': 'request_type'}
```

```
deserialized_types = {'body': 'ask_sdk_model.services.reminder_management.event.Event'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

```
Returns the model properties as a dict
```

```
to_str()
```

```
Returns the string representation of the model
```

ask_sdk_model.services.reminder_management.reminder_updated_event_request module

class ask_sdk_model.services.reminder_management.reminder_updated_event_request.**ReminderUpd**

Bases: `ask_sdk_model.request.Request`

Parameters

- **request_id** (*optional* `str`) – Represents the unique identifier for the specific request.
- **timestamp** (*optional* `datetime`) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional* `str`) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **body** (*optional* `ask_sdk_model.services.reminder_management.event.Event`) –

`attribute_map = {'body': 'body', 'locale': 'locale', 'object_type': 'type', 'request_id': 'request_id', 'timestamp': 'timestamp'}`

`deserialized_types = {'body': 'ask_sdk_model.services.reminder_management.event.Event', 'request_id': 'str', 'timestamp': 'datetime'}`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

ask_sdk_model.services.reminder_management.spoken_text module

class ask_sdk_model.services.reminder_management.spoken_text.**SpokenText** (*locale=None, ssml=None, text=None*)

Bases: `object`

Parameters

- **locale** (*optional* `str`) – The locale in which the spoken text is rendered. e.g. en-US
- **ssml** (*optional* `str`) – Spoken text in SSML format.
- **text** (*optional* `str`) – Spoken text in plain text format.

`attribute_map = {'locale': 'locale', 'ssml': 'ssml', 'text': 'text'}`

`deserialized_types = {'locale': 'str', 'ssml': 'str', 'text': 'str'}`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

```
to_str()
    Returns the string representation of the model
```

ask_sdk_model.services.reminder_management.status module

```
class ask_sdk_model.services.reminder_management.status.Status
```

```
    Bases: enum.Enum
```

```
    Status of reminder
```

```
    Allowed enum values: [ON, COMPLETED]
```

```
    COMPLETED = 'COMPLETED'
```

```
    ON = 'ON'
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_sdk_model.services.reminder_management.trigger module

```
class ask_sdk_model.services.reminder_management.trigger.Trigger(object_type=None,
                                                                sched-
                                                                uled_time=None,
                                                                off-
                                                                set_in_seconds=None,
                                                                time_zone_id=None,
                                                                recur-
                                                                rence=None)
```

```
Bases: object
```

```
Trigger information for Reminder
```

Parameters

- **object_type** ((*optional*) ask_sdk_model.services.reminder_management.trigger_type.TriggerType)–
- **scheduled_time** ((*optional*) datetime) – Valid ISO 8601 format - Intended trigger time
- **offset_in_seconds** ((*optional*) int) – If reminder is set using relative time, use this field to specify the time after which reminder ll ring (in seconds)
- **time_zone_id** ((*optional*) str) – Intended reminder’s timezone
- **recurrence** ((*optional*) ask_sdk_model.services.reminder_management.recurrence.Recurrence)–

```
attribute_map = {'object_type': 'type', 'offset_in_seconds': 'offsetInSeconds', 'recurrence': 'recurrence'}
```

```
deserialized_types = {'object_type': 'ask_sdk_model.services.reminder_management.trigger_type.TriggerType'}
```

```
supports_multiple_types = False
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_sdk_model.services.reminder_management.trigger_type module

```
class ask_sdk_model.services.reminder_management.trigger_type.TriggerType
    Bases: enum.Enum

    Type of reminder - Absolute / Relative
    Allowed enum values: [SCHEDULED_ABSOLUTE, SCHEDULED_RELATIVE]

    SCHEDULED_ABSOLUTE = 'SCHEDULED_ABSOLUTE'
    SCHEDULED_RELATIVE = 'SCHEDULED_RELATIVE'

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model
```

ask_sdk_model.services.skill_messaging package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.services.skill_messaging.error module

```
class ask_sdk_model.services.skill_messaging.error.Error (code=None,      mes-
                                                         sage=None)
    Bases: object

    Parameters
        • code((optional) int)-
        • message((optional) str)-

    attribute_map = {'code': 'code', 'message': 'message'}
    deserialized_types = {'code': 'int', 'message': 'str'}
    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model
```


ask_sdk_model.services.skill_messaging.send_skill_messaging_request module

```
class ask_sdk_model.services.skill_messaging.send_skill_messaging_request.SendSkillMessagi
```

Bases: `object`

The message that needs to be sent to the skill

Parameters

- **data** (*optional* `object`) – The payload data to send with the message. The data must be in the form of JSON-formatted key-value pairs. Both keys and values must be of type `String`. The total size of the data cannot be greater than 6KB. For calculation purposes, this includes keys and values, the quotes that surround them, the `";"` character that separates them, the commas that separate the pairs, and the opening and closing braces around the field. However, any whitespace between key/value pairs is not included in the calculation of the payload size. If the message does not include payload data, as in the case of a sync message, you can pass in an empty JSON object `";{}"`.
- **expires_after_seconds** (*optional* `int`) – The number of seconds that the message will be retained to retry if message delivery is not successful. Allowed values are from 60 (1 minute) to 86400 (1 day), inclusive. The default is 3600 (1 hour). Multiple retries may occur during this interval. The retry logic is exponential. The first retry executes after 30 seconds, and this time period doubles on every retry. The retries will end when the total time elapsed since the message was first sent has exceeded the value you provided for `expiresAfterSeconds`. Message expiry is rarely a problem if the message handler has been set up correctly. With a correct setup, you will receive the message once promptly. This mechanism for retries is provided as a safeguard in case your skill goes down during a message delivery.

```
attribute_map = {'data': 'data', 'expires_after_seconds': 'expiresAfterSeconds'}
```

```
deserialized_types = {'data': 'object', 'expires_after_seconds': 'int'}
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_sdk_model.services.skill_messaging.skill_messaging_service_client module

```
class ask_sdk_model.services.skill_messaging.skill_messaging_service_client.SkillMessaging
```

Bases: `ask_sdk_model.services.base_service_client.BaseServiceClient`

ServiceClient for calling the SkillMessagingService APIs.

Parameters `api_configuration` (`ask_sdk_model.services.api_configuration.ApiConfiguration`) – Instance of `ApiConfiguration`

`send_skill_message` (`user_id`, `send_skill_messaging_request`, `**kwargs`)

Send a message request to a skill for a specified user.

Parameters

- `user_id` (`str`) – (required) The user Id for the specific user to send the message
- `send_skill_messaging_request` (`ask_sdk_model.services.skill_messaging.send_skill_messaging_request.SendSkillMessagingRequest`) – (required) Message Request to be sent to the skill.
- `full_response` (`boolean`) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to `False`.

Return type `Union[ApiResponse, Error]`

`ask_sdk_model.services.ups` package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

`ask_sdk_model.services.ups.distance_units` module

class `ask_sdk_model.services.ups.distance_units.DistanceUnits`

Bases: `enum.Enum`

Allowed enum values: [METRIC, IMPERIAL]

`IMPERIAL = 'IMPERIAL'`

`METRIC = 'METRIC'`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

`ask_sdk_model.services.ups.error` module

class `ask_sdk_model.services.ups.error.Error` (`code=None`, `message=None`)

Bases: `object`

Parameters

- **code** ((optional) `ask_sdk_model.services.ups.error_code.ErrorCode`)–
- **message** ((optional) `str`)– A human readable description of error.

attribute_map = {'code': 'code', 'message': 'message'}

deserialized_types = {'code': 'ask_sdk_model.services.ups.error_code.ErrorCode', 'mes

supports_multiple_types = **False**

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.services.ups.error_code module

class `ask_sdk_model.services.ups.error_code.ErrorCode`

Bases: `enum.Enum`

A more precise error code. Some of these codes may not apply to some APIs. - `INVALID_KEY`: the setting key is not supported - `INVALID_VALUE`: the setting value is not valid - `INVALID_TOKEN`: the token is invalid - `INVALID_URI`: the uri is invalid - `DEVICE_UNREACHABLE`: the device is offline - `UNKNOWN_ERROR`: internal service error

Allowed enum values: [`INVALID_KEY`, `INVALID_VALUE`, `INVALID_TOKEN`, `INVALID_URI`, `DEVICE_UNREACHABLE`, `UNKNOWN_ERROR`]

DEVICE_UNREACHABLE = 'DEVICE_UNREACHABLE'

INVALID_KEY = 'INVALID_KEY'

INVALID_TOKEN = 'INVALID_TOKEN'

INVALID_URI = 'INVALID_URI'

INVALID_VALUE = 'INVALID_VALUE'

UNKNOWN_ERROR = 'UNKNOWN_ERROR'

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_sdk_model.services.ups.phone_number module

class `ask_sdk_model.services.ups.phone_number.PhoneNumber` (*country_code=None, phone_number=None*)

Bases: `object`

Parameters

- **country_code** ((optional) `str`)–
- **phone_number** ((optional) `str`)–

attribute_map = {'country_code': 'countryCode', 'phone_number': 'phoneNumber'}

deserialized_types = {'country_code': 'str', 'phone_number': 'str'}

```

supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_sdk_model.services.ups.temperature_unit module

```

class ask_sdk_model.services.ups.temperature_unit.TemperatureUnit
    Bases: enum.Enum

    Allowed enum values: [CELSIUS, FAHRENHEIT]

    CELSIUS = 'CELSIUS'

    FAHRENHEIT = 'FAHRENHEIT'

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model
    
```

ask_sdk_model.services.ups.ups_service_client module

```

class ask_sdk_model.services.ups.ups_service_client.UpsServiceClient (api_configuration,
                                                                    cus-
                                                                    tom_user_agent=None)

    Bases: ask_sdk_model.services.base_service_client.BaseServiceClient

    ServiceClient for calling the UpsService APIs.

    Parameters api_configuration (ask_sdk_model.services.
        api_configuration.ApiConfiguration) – Instance of ApiConfiguration

    get_profile_email (**kwargs)
        Gets the email address of the customer associated with the current enablement. Requires customer consent
        for scopes: [alexa::profile:email:read]

        Parameters full_response (boolean) – Boolean value to check if response should contain
            headers and status code information. This value had to be passed through keyword
            arguments, by default the parameter value is set to False.

        Return type Union[ApiResponse, str, Error]

    get_profile_given_name (**kwargs)
        Gets the given name (first name) of the customer associated with the current enablement. Requires cus-
        tomer consent for scopes: [alexa::profile:given_name:read]

        Parameters full_response (boolean) – Boolean value to check if response should contain
            headers and status code information. This value had to be passed through keyword
            arguments, by default the parameter value is set to False.

        Return type Union[ApiResponse, str, Error]

    get_profile_mobile_number (**kwargs)
        Gets the mobile phone number of the customer associated with the current enablement. Requires customer
        consent for scopes: [alexa::profile:mobile_number:read]
    
```

Parameters `full_response` (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *PhoneNumber*, *Error*]

get_profile_name (***kwargs*)

Gets the full name of the customer associated with the current enablement. Requires customer consent for scopes: [alexa::profile:name:read]

Parameters `full_response` (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *str*, *Error*]

get_system_distance_units (*device_id*, ***kwargs*)

Gets the distance measurement unit of the device. Does not require explicit customer consent.

Parameters

- `device_id` (*str*) – (required) The device Id
- `full_response` (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *Error*, *DistanceUnits*]

get_system_temperature_unit (*device_id*, ***kwargs*)

Gets the temperature measurement units of the device. Does not require explicit customer consent.

Parameters

- `device_id` (*str*) – (required) The device Id
- `full_response` (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *TemperatureUnit*, *Error*]

get_system_time_zone (*device_id*, ***kwargs*)

Gets the time zone of the device. Does not require explicit customer consent.

Parameters

- `device_id` (*str*) – (required) The device Id
- `full_response` (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *str*, *Error*]

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

`ask_sdk_model.services.api_client` module

class `ask_sdk_model.services.api_client.ApiClient`

Bases: `object`

Represents a basic contract for API request invocation.

invoke (*request*)

Dispatches a request to an API endpoint described in the request.

The `ApiClient` is expected to resolve in the case an API returns a non-200 HTTP status code. The responsibility of translating a particular response code to an error lies with the caller.

Parameters `request` (`ApiClientRequest`) – Request to dispatch to the `ApiClient`

Returns Response from the client call

Return type `ApiClientResponse`

`ask_sdk_model.services.api_client_message` module

class `ask_sdk_model.services.api_client_message.ApiClientMessage` (*headers=None, body=None*)

Bases: `object`

Represents the interface between `ask_sdk_model.services.api_client.ApiClient` implementation and a Service Client.

Parameters

- **headers** (*list[tuple[str, str]]*) – List of header tuples
- **body** (*str*) – Body of the message

`ask_sdk_model.services.api_client_request` module

class `ask_sdk_model.services.api_client_request.ApiClientRequest` (*headers=None, body=None, url=None, method=None*)

Bases: `ask_sdk_model.services.api_client_message.ApiClientMessage`

Represents a request sent from Service Clients to an `ask_sdk_model.services.api_client.ApiClient` implementation.

Parameters

- **headers** (*list[tuple[str, str]]*) – List of header tuples
- **body** (*str*) – Body of the message
- **url** (*str*) – Url of the request
- **method** (*str*) – Method called with the request

ask_sdk_model.services.api_client_response module

```
class ask_sdk_model.services.api_client_response.ApiClientResponse (headers=None,
                                                                body=None,
                                                                sta-
                                                                tus_code=None)
```

Bases: `ask_sdk_model.services.api_client_message.ApiClientMessage`

Represents a response returned by `ask_sdk_model.services.api_client.ApiClient` implementation to a Service Client.

Parameters

- **headers** (`list[tuple[str, str]]`) – List of header tuples
- **body** (`str`) – Body of the message
- **status_code** (`int`) – Status code of the response

ask_sdk_model.services.api_configuration module

```
class ask_sdk_model.services.api_configuration.ApiConfiguration (serializer=None,
                                                                api_client=None,
                                                                authoriza-
                                                                tion_value=None,
                                                                api_endpoint=None)
```

Bases: `object`

Represents a class that provides API configuration options needed by service clients.

Parameters

- **serializer** (*(optional) ask_sdk_model.services.serializer.Serializer*) – serializer implementation for encoding/decoding JSON from/to Object models.
- **api_client** (*(optional) ask_sdk_model.services.api_client.ApiClient*) – API Client implementation
- **authorization_value** (*(optional) str*) – Authorization value to be used on any calls of the service client instance
- **api_endpoint** (*(optional) str*) – Endpoint to hit by the service client instance

ask_sdk_model.services.api_response module

```
class ask_sdk_model.services.api_response.ApiResponse (headers=None, body=None,
                                                                status_code=None)
```

Bases: `object`

Represents a response returned by the Service Client.

Parameters

- **headers** (`list[tuple[str, str]]`) – List of header tuples
- **body** (`object`) – Body of the response
- **status_code** (`int`) – Status code of the response

ask_sdk_model.services.authentication_configuration module

class ask_sdk_model.services.authentication_configuration.**AuthenticationConfiguration** (*client_id, client_secret, refresh_token*)

Bases: `object`

Represents a class that provides authentication configuration.

Parameters

- **client_id** (*str*) – Client ID required for authentication.
- **client_secret** (*str*) – Client Secret required for authentication.
- **refresh_token** (*str*) – Client refresh_token required to get access token for API calls.

ask_sdk_model.services.base_service_client module

class ask_sdk_model.services.base_service_client.**BaseServiceClient** (*api_configuration*)
 Bases: `object`

Class to be used as the base class for the generated service clients.

The class has to be implemented by the service clients and this class instantiation is not supported

Parameters **api_configuration** (*ask_sdk_model.services.api_configuration.ApiConfiguration*) – ApiConfiguration implementation

invoke (*method, endpoint, path, query_params, header_params, path_params, response_definitions, body, response_type*)

Calls the ApiClient based on the ServiceClient specific data provided as well as handles the well-known responses from the Api.

Parameters

- **method** (*str*) – Http method
- **endpoint** – Base endpoint to make the request to
- **path** (*str*) – Specific path to hit. It might contain variables to be interpolated with path_params
- **query_params** (*list(tuple(str, str))*) – Parameter values to be sent as part of query string
- **header_params** (*list(tuple(str, str))*) – Parameter values to be sent as headers
- **path_params** (*dict(str, str)*) – Parameter values to be interpolated in the path
- **response_definitions** (*list(ask_sdk_model.services.service_client_response.ServiceClientResponse)*) – Well-known expected responses by the ServiceClient
- **body** (*object*) – Request body
- **response_type** (*class*) – Type of the expected response if applicable

Returns ApiResponse object.

Return type ask_sdk_model.services.api_response.py

Raises `ask_sdk_model.services.service_exception.ServiceException` if service fails and `ValueError` if serializer or API Client is not configured in `api_configuration` # noqa: E501

`ask_sdk_model.services.serializer` module

class `ask_sdk_model.services.serializer.Serializer`

Bases: `object`

Represents an abstract object used for Serialization tasks

deserialize (*payload, obj_type*)

Deserializes the payload to object of provided `obj_type`.

Parameters

- **payload** (*str*) – String to deserialize
- **obj_type** (*object*) – Target type of deserialization

Returns Deserialized object

Return type `object`

serialize (*obj*)

Serializes an object into a string.

Parameters `obj` – object to serialize

Returns serialized object in string format

Return type `str`

`ask_sdk_model.services.service_client_factory` module

class `ask_sdk_model.services.service_client_factory.ServiceClientFactory` (*api_configuration*)

Bases: `object`

ServiceClientFactory class to help build service clients.

Parameters `api_configuration` (`ask_sdk_model.services.api_configuration.ApiConfiguration`) – API Configuration for calling services

get_device_address_service ()

Get DeviceAddressServiceClient for `device_address_service`.

Returns Client for calling the service

Return type `DeviceAddressServiceClient`

Raises `ValueError`

get_directive_service ()

Get DirectiveServiceClient for `directive_service`.

Returns Client for calling the service

Return type `DirectiveServiceClient`

Raises `ValueError`

get_endpoint_enumeration_service ()

Get EndpointEnumerationServiceClient for `endpoint_enumeration_service`.

Returns Client for calling the service

Return type *EndpointEnumerationServiceClient*

Raises `ValueError`

get_list_management_service()

Get ListManagementServiceClient for list_management_service.

Returns Client for calling the service

Return type *ListManagementServiceClient*

Raises `ValueError`

get_monetization_service()

Get MonetizationServiceClient for monetization_service.

Returns Client for calling the service

Return type *MonetizationServiceClient*

Raises `ValueError`

get_reminder_management_service()

Get ReminderManagementServiceClient for reminder_management_service.

Returns Client for calling the service

Return type *ReminderManagementServiceClient*

Raises `ValueError`

get_timer_management_service()

Get TimerManagementServiceClient for timer_management_service.

Returns Client for calling the service

Return type *TimerManagementServiceClient*

Raises `ValueError`

get_ups_service()

Get UpsServiceClient for ups_service.

Returns Client for calling the service

Return type *UpsServiceClient*

Raises `ValueError`

ask_sdk_model.services.service_client_response module

```
class ask_sdk_model.services.service_client_response.ServiceClientResponse(response_type,
                                                                              status_code,
                                                                              message)
```

Bases: `object`

Represents a well-known response object by Service Client.

Parameters

- **response_type** (*Response class*) – Well-known representation of the response

- **status_code** (*int*) – Status code to be attached to the response
- **message** (*str*) – Message to be attached to the response

ask_sdk_model.services.service_exception module

exception ask_sdk_model.services.service_exception.**ServiceException** (*message*,
status_code,
headers,
body)

Bases: `Exception`

Exception thrown by a Service client when an error response was received or some operation failed.

Parameters

- **message** (*str*) – Description of the error
- **status_code** (*int*) – Status code of the HTTP Response
- **headers** (*list(tuple(str, str))*) – Headers of the Http response that return the failure
- **body** (*object*) – Body of the HTTP Response

9.1.7 ask_sdk_model.slu package

Subpackages

ask_sdk_model.slu.entityresolution package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.slu.entityresolution.resolution module

class ask_sdk_model.slu.entityresolution.resolution.**Resolution** (*authority=None*,
status=None,
values=None)

Bases: `object`

Represents a possible authority for entity resolution

Parameters

- **authority** (*(optional) str*) –
- **status** (*(optional) ask_sdk_model.slu.entityresolution.status.Status*) –

```

    • values ((optional) list[ask_sdk_model.slu.entityresolution.
        value_wrapper.ValueWrapper])–
attribute_map = {'authority': 'authority', 'status': 'status', 'values': 'values'}
deserialized_types = {'authority': 'str', 'status': 'ask_sdk_model.slu.entityresolut
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.slu.entityresolution.resolutions module

```

class ask_sdk_model.slu.entityresolution.resolutions.Resolutions (resolutions_per_authority=None)
    Bases: object

```

Represents the results of resolving the words captured from the user’s utterance. This is included for slots that use a custom slot type or a built-in slot type that you have extended with your own values. Note that resolutions is not included for built-in slot types that you have not extended.

```

    Parameters resolutions_per_authority ((optional) list[ask_sdk_model.
        slu.entityresolution.resolution.Resolution])–
attribute_map = {'resolutions_per_authority': 'resolutionsPerAuthority'}
deserialized_types = {'resolutions_per_authority': 'list[ask_sdk_model.slu.entityreso
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.slu.entityresolution.status module

```

class ask_sdk_model.slu.entityresolution.status.Status (code=None)
    Bases: object

```

```

    Parameters code ((optional) ask_sdk_model.slu.entityresolution.
        status_code.StatusCode) – Indication of the results of attempting to resolve the
        user utterance against the defined slot types.
attribute_map = {'code': 'code'}
deserialized_types = {'code': 'ask_sdk_model.slu.entityresolution.status_code.StatusCode
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.slu.entityresolution.status_code module

class ask_sdk_model.slu.entityresolution.status_code.**StatusCode**

Bases: `enum.Enum`

Indication of the results of attempting to resolve the user utterance against the defined slot types.

Allowed enum values: [ER_SUCCESS_MATCH, ER_SUCCESS_NO_MATCH, ER_ERROR_TIMEOUT, ER_ERROR_EXCEPTION]

ER_ERROR_EXCEPTION = 'ER_ERROR_EXCEPTION'

ER_ERROR_TIMEOUT = 'ER_ERROR_TIMEOUT'

ER_SUCCESS_MATCH = 'ER_SUCCESS_MATCH'

ER_SUCCESS_NO_MATCH = 'ER_SUCCESS_NO_MATCH'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.slu.entityresolution.value module

class ask_sdk_model.slu.entityresolution.value.**Value** (*name=None, id=None*)

Bases: `object`

Represents the resolved value for the slot, based on the user's utterance and slot type definition.

Parameters

- **name** (*optional str*) – The name for the resolution value.
- **id** (*optional str*) – The id for the resolution value.

attribute_map = {'id': 'id', 'name': 'name'}

deserialized_types = {'id': 'str', 'name': 'str'}

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_sdk_model.slu.entityresolution.value_wrapper module

class ask_sdk_model.slu.entityresolution.value_wrapper.**ValueWrapper** (*value=None*)

Bases: `object`

A wrapper class for an entity resolution value used for JSON serialization.

Parameters value (*optional ask_sdk_model.slu.entityresolution.value.Value*) –

attribute_map = {'value': 'value'}

deserialized_types = {'value': 'ask_sdk_model.slu.entityresolution.value.Value'}

```

supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
    
```

9.1.8 ask_sdk_model.ui package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_sdk_model.ui.ask_for_permissions_consent_card module

```

class ask_sdk_model.ui.ask_for_permissions_consent_card.AskForPermissionsConsentCard(permissions)
    Bases: ask_sdk_model.ui.card.Card
    
```

```

    Parameters permissions ((optional) list[str])-
    attribute_map = {'object_type': 'type', 'permissions': 'permissions'}
    deserialized_types = {'object_type': 'str', 'permissions': 'list[str]'}
    supports_multiple_types = False
    to_dict()
        Returns the model properties as a dict
    to_str()
        Returns the string representation of the model
    
```

ask_sdk_model.ui.card module

```

class ask_sdk_model.ui.card.Card(object_type=None)
    Bases: object
    
```

```

    Parameters object_type ((optional) str)-
    
```

Note: This is an abstract class. Use the following mapping, to figure out the model class to be instantiated, that sets `type` variable.

AskForPermissionsConsent: `ask_sdk_model.ui.ask_for_permissions_consent_card.AskForPermissionsConsentCard`,

LinkAccount: `ask_sdk_model.ui.link_account_card.LinkAccountCard`,

Standard: `ask_sdk_model.ui.standard_card.StandardCard`,

Simple: `ask_sdk_model.ui.simple_card.SimpleCard`

```

attribute_map = {'object_type': 'type'}
deserialized_types = {'object_type': 'str'}
discriminator_value_class_map = {'AskForPermissionsConsent': 'ask_sdk_model.ui.ask_for_permissions_consent'}
classmethod get_real_child_model (data)
    Returns the real base class specified by the discriminator
json_discriminator_key = 'type'
supports_multiple_types = False
to_dict ()
    Returns the model properties as a dict
to_str ()
    Returns the string representation of the model

```

`ask_sdk_model.ui.image` module

class `ask_sdk_model.ui.image.Image` (*small_image_url=None, large_image_url=None*)
 Bases: `object`

Parameters

- `small_image_url` ((optional) *str*) –
- `large_image_url` ((optional) *str*) –

```

attribute_map = {'large_image_url': 'largeImageUrl', 'small_image_url': 'smallImageUrl'}
deserialized_types = {'large_image_url': 'str', 'small_image_url': 'str'}
supports_multiple_types = False
to_dict ()
    Returns the model properties as a dict
to_str ()
    Returns the string representation of the model

```

`ask_sdk_model.ui.link_account_card` module

class `ask_sdk_model.ui.link_account_card.LinkAccountCard`
 Bases: `ask_sdk_model.ui.card.Card`

```

attribute_map = {'object_type': 'type'}
deserialized_types = {'object_type': 'str'}
supports_multiple_types = False
to_dict ()
    Returns the model properties as a dict

```

```
to_str()
    Returns the string representation of the model
```

ask_sdk_model.ui.output_speech module

```
class ask_sdk_model.ui.output_speech.OutputSpeech(object_type=None,
                                                play_behavior=None)
```

Bases: `object`

Parameters

- **object_type** ((optional) *str*)–
- **play_behavior** ((optional) `ask_sdk_model.ui.play_behavior.PlayBehavior`)–

Note: This is an abstract class. Use the following mapping, to figure out the model class to be instantiated, that sets `type` variable.

SSML: `ask_sdk_model.ui.ssml_output_speech.SsmlOutputSpeech`,

PlainText: `ask_sdk_model.ui.plain_text_output_speech.PlainTextOutputSpeech`

```
attribute_map = {'object_type': 'type', 'play_behavior': 'playBehavior'}
deserialized_types = {'object_type': 'str', 'play_behavior': 'ask_sdk_model.ui.play_
discriminator_value_class_map = {'PlainText': 'ask_sdk_model.ui.plain_text_output_spe
classmethod get_real_child_model(data)
    Returns the real base class specified by the discriminator
json_discriminator_key = 'type'
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask_sdk_model.ui.plain_text_output_speech module

```
class ask_sdk_model.ui.plain_text_output_speech.PlainTextOutputSpeech(play_behavior=None,
                                                                    text=None)
```

Bases: `ask_sdk_model.ui.output_speech.OutputSpeech`

Parameters

- **play_behavior** ((optional) `ask_sdk_model.ui.play_behavior.PlayBehavior`)–
- **text** ((optional) *str*)–

```
attribute_map = {'object_type': 'type', 'play_behavior': 'playBehavior', 'text': 't
```



```

deserialized_types = {'object_type': 'str', 'play_behavior': 'ask_sdk_model.ui.play_
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.ui.play_behavior module

```

class ask_sdk_model.ui.play_behavior.PlayBehavior
    Bases: enum.Enum

    Determines whether Alexa will queue or play this output speech immediately interrupting other speech
    Allowed enum values: [ENQUEUE, REPLACE_ALL, REPLACE_ENQUEUED]

    ENQUEUE = 'ENQUEUE'
    REPLACE_ALL = 'REPLACE_ALL'
    REPLACE_ENQUEUED = 'REPLACE_ENQUEUED'

    to_dict()
        Returns the model properties as a dict
    to_str()
        Returns the string representation of the model

```

ask_sdk_model.ui.reprompt module

```

class ask_sdk_model.ui.reprompt.Reprompt(output_speech=None)
    Bases: object

    Parameters output_speech ((optional) ask_sdk_model.ui.output_speech.
        OutputSpeech)-

    attribute_map = {'output_speech': 'outputSpeech'}
    deserialized_types = {'output_speech': 'ask_sdk_model.ui.output_speech.OutputSpeech'}
    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict
    to_str()
        Returns the string representation of the model

```

ask_sdk_model.ui.simple_card module

```

class ask_sdk_model.ui.simple_card.SimpleCard(title=None, content=None)
    Bases: ask_sdk_model.ui.card.Card

    Parameters

    • title((optional) str)-
    • content((optional) str)-

```

```

attribute_map = {'content': 'content', 'object_type': 'type', 'title': 'title'}
deserialized_types = {'content': 'str', 'object_type': 'str', 'title': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.ui.ssml_output_speech module

```

class ask_sdk_model.ui.ssml_output_speech.SsmlOutputSpeech(play_behavior=None,
                                                         ssm=None)
    Bases: ask_sdk_model.ui.output_speech.OutputSpeech

```

Parameters

- **play_behavior** ((*optional*) *ask_sdk_model.ui.play_behavior.PlayBehavior*)–
- **ssml** ((*optional*) *str*)–

```

attribute_map = {'object_type': 'type', 'play_behavior': 'playBehavior', 'ssml': 'ssml'}
deserialized_types = {'object_type': 'str', 'play_behavior': 'ask_sdk_model.ui.play_behavior.PlayBehavior', 'ssml': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_sdk_model.ui.standard_card module

```

class ask_sdk_model.ui.standard_card.StandardCard(title=None, text=None, image=None)
    Bases: ask_sdk_model.ui.card.Card

```

Parameters

- **title** ((*optional*) *str*)–
- **text** ((*optional*) *str*)–
- **image** ((*optional*) *ask_sdk_model.ui.image.Image*)–

```

attribute_map = {'image': 'image', 'object_type': 'type', 'text': 'text', 'title': 'title'}
deserialized_types = {'image': 'ask_sdk_model.ui.image.Image', 'object_type': 'str', 'text': 'str', 'title': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

9.2 Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

9.3 ask_sdk_model.application module

class `ask_sdk_model.application.Application` (*application_id=None*)

Bases: `object`

An object containing an application ID. This is used to verify that the request was intended for your service.

Parameters `application_id` (*optional*) `str` – A string representing the application identifier for your skill.

`attribute_map` = {'application_id': 'applicationId'}

`deserialized_types` = {'application_id': 'str'}

`supports_multiple_types` = `False`

`to_dict` ()

Returns the model properties as a dict

`to_str` ()

Returns the string representation of the model

9.4 ask_sdk_model.cause module

class `ask_sdk_model.cause.Cause` (*object_type=None*)

Bases: `object`

Describes the type of the Cause.

Parameters `object_type` (*optional*) `str` –

Note: This is an abstract class. Use the following mapping, to figure out the model class to be instantiated, that sets `type` variable.

ConnectionCompleted: `ask_sdk_model.connection_completed.ConnectionCompleted`

`attribute_map` = {'object_type': 'type'}

`deserialized_types` = {'object_type': 'str'}

`discriminator_value_class_map` = {'ConnectionCompleted': 'ask_sdk_model.connection_compl

```
classmethod get_real_child_model(data)
    Returns the real base class specified by the discriminator

json_discriminator_key = 'type'

supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
```

9.5 ask_sdk_model.connection_completed module

```
class ask_sdk_model.connection_completed.ConnectionCompleted(token=None,
                                                           status=None,
                                                           result=None)
```

Bases: `ask_sdk_model.cause.Cause`

Represents the status and result needed to resume a skill's suspended session.

Parameters

- **token** (*optional str*) – This is an echo back string that skills send when during Connections.StartConnection directive. They will receive it when they get the SessionResumedRequest. It is never sent to the skill handling the request.
- **status** (*optional ask_sdk_model.status.Status*) –
- **result** (*optional object*) – This is the result object to resume the skill's suspended session.

```
attribute_map = {'object_type': 'type', 'result': 'result', 'status': 'status', 'to_
deserialized_types = {'object_type': 'str', 'result': 'object', 'status': 'ask_sdk_
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
```

9.6 ask_sdk_model.context module

```
class ask_sdk_model.context.Context(system=None, alexa_presentation_apl=None, au-
                                   dio_player=None, automotive=None, display=None,
                                   geolocation=None, viewport=None, viewports=None)
```

Bases: `object`

Parameters

- **system** (*optional ask_sdk_model.interfaces.system.system_state.SystemState*) – Provides information about the current state of the Alexa service and the device interacting with your skill.

- **alexa_presentation_apl** `((optional) ask_sdk_model.interfaces.alexa.presentation.apl.rendered_document_state.RenderedDocumentState)` – Provides the current state for the Alexa.Presentation.APL interface.
- **audio_player** `((optional) ask_sdk_model.interfaces.audioplayer.audio_player_state.AudioPlayerState)` – Provides the current state for the AudioPlayer interface.
- **automotive** `((optional) ask_sdk_model.interfaces.automotive.automotive_state.AutomotiveState)` – Provides the automotive specific information of the device.
- **display** `((optional) ask_sdk_model.interfaces.display.display_state.DisplayState)` – Provides the current state for the Display interface.
- **geolocation** `((optional) ask_sdk_model.interfaces.geolocation.geolocation_state.GeolocationState)` – Provides the last gathered geolocation information of the device.
- **viewport** `((optional) ask_sdk_model.interfaces.viewport.viewport_state.ViewportState)` – Provides the characteristics of a device's viewport.
- **viewports** `((optional) list[ask_sdk_model.interfaces.viewport.typed_viewport_state.TypedViewportState])` – This object contains a list of viewports characteristics related to the device's viewports.

```

attribute_map = {'alexa_presentation_apl': 'Alexa.Presentation.APL', 'audio_player':
deserialized_types = {'alexa_presentation_apl': 'ask_sdk_model.interfaces.alexa.prese
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

9.7 ask_sdk_model.device module

```

class ask_sdk_model.device.Device(device_id=None, supported_interfaces=None)
    Bases: object
    
```

An object providing information about the device used to send the request. The device object contains both `deviceId` and `supportedInterfaces` properties. The `deviceId` property uniquely identifies the device. The `supportedInterfaces` property lists each interface that the device supports. For example, if `supportedInterfaces` includes `AudioPlayer {}`, then you know that the device supports streaming audio using the AudioPlayer interface.

Parameters

- **device_id** `((optional) str)` – The `deviceId` property uniquely identifies the device.
- **supported_interfaces** `((optional) ask_sdk_model.supported_interfaces.SupportedInterfaces)` – Lists each interface that the device supports. For example, if `supportedInterfaces` includes `AudioPlayer {}`, then you know that the device supports streaming audio using the AudioPlayer interface

```
attribute_map = {'device_id': 'deviceId', 'supported_interfaces': 'supportedInterfaces'}
deserialized_types = {'device_id': 'str', 'supported_interfaces': 'ask_sdk_model.supported_interfaces'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
```

9.8 ask_sdk_model.dialog_state module

class ask_sdk_model.dialog_state.DialogState

Bases: `enum.Enum`

Enumeration indicating the status of the multi-turn dialog. This property is included if the skill meets the requirements to use the Dialog directives. Note that COMPLETED is only possible when you use the Dialog.Delegate directive. If you use intent confirmation, dialogState is considered COMPLETED if the user denies the entire intent (for instance, by answering “no” when asked the confirmation prompt). Be sure to also check the confirmationStatus property on the Intent object before fulfilling the user’s request.

Allowed enum values: [STARTED, IN_PROGRESS, COMPLETED]

COMPLETED = 'COMPLETED'

IN_PROGRESS = 'IN_PROGRESS'

STARTED = 'STARTED'

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

9.9 ask_sdk_model.directive module

class ask_sdk_model.directive.Directive (*object_type=None*)

Bases: `object`

Parameters `object_type` (*optional*) `str` –

Note: This is an abstract class. Use the following mapping, to figure out the model class to be instantiated, that sets `type` variable.

CustomInterfaceController.StopEventHandler:

`ask_sdk_model.interfaces.custom_interface_controller.stop_event_handler_directive.StopEventHandlerDirective,`

Navigation.Assistance.AnnounceRoadRegulation: `ask_sdk_model.interfaces.navigation.assistance.announce_road_regulation.AnnounceRoadRegulation,`

Connections.SendRequest: `ask_sdk_model.interfaces.connections.send_request_directive.SendRequestDirective`,

Dialog.UpdateDynamicEntities:
`ask_sdk_model.dialog.dynamic_entities_directive.DynamicEntitiesDirective`,

CustomInterfaceController.StartEventHandler:
`ask_sdk_model.interfaces.custom_interface_controller.start_event_handler_directive.StartEventHandlerDirective`,

GadgetController.SetLight: `ask_sdk_model.interfaces.gadget_controller.set_light_directive.SetLightDirective`,

Alexa.Presentation.APL.SendIndexListData:
`ask_sdk_model.interfaces.alexa.presentation.apl.send_index_list_data_directive.SendIndexListDataDirective`,

Dialog.Delegate: `ask_sdk_model.dialog.delegate_directive.DelegateDirective`,

Dialog.ConfirmIntent:
`ask_sdk_model.dialog.confirm_intent_directive.ConfirmIntentDirective`,

CustomInterfaceController.SendDirective:
`ask_sdk_model.interfaces.custom_interface_controller.send_directive_directive.SendDirectiveDirective`,

Alexa.Presentation.HTML.HandleMessage: `ask_sdk_model.interfaces.alexa.presentation.html.handle_message_directive.HandleMessageDirective`,

Dialog.ElicitSlot:
`ask_sdk_model.dialog.elicit_slot_directive.ElicitSlotDirective`,

Alexa.Presentation.HTML.Start: `ask_sdk_model.interfaces.alexa.presentation.html.start_directive.StartDirective`,

AudioPlayer.Stop:
`ask_sdk_model.interfaces.audioplayer.stop_directive.StopDirective`,

Dialog.ConfirmSlot:
`ask_sdk_model.dialog.confirm_slot_directive.ConfirmSlotDirective`,

AudioPlayer.Play:
`ask_sdk_model.interfaces.audioplayer.play_directive.PlayDirective`,

Alexa.Presentation.APL.ExecuteCommands: `ask_sdk_model.interfaces.alexa.presentation.apl.execute_commands_directive.ExecuteCommandsDirective`,

Display.RenderTemplate: `ask_sdk_model.interfaces.display.render_template_directive.RenderTemplateDirective`,

Hint: `ask_sdk_model.interfaces.display.hint_directive.HintDirective`,

Connections.StartConnection: `ask_sdk_model.interfaces.connections.v1.start_connection_directive.StartConnectionDirective`,

Alexa.Presentation.APLT.RenderDocument: `ask_sdk_model.interfaces.alexa.presentation.aplt.render_document_directive.RenderDocumentDirective`,

GameEngine.StartInputHandler: `ask_sdk_model.interfaces.game_engine.start_input_handler_directive.StartInputHandlerDirective`,

VideoApp.Launch:
`ask_sdk_model.interfaces.videoapp.launch_directive.LaunchDirective`,

Alexa.Presentation.APLT.ExecuteCommands: `ask_sdk_model.interfaces.alexa.presentation.aplt.execute_commands_directive.ExecuteCommandsDirective`,

GameEngine.StopInputHandler: `ask_sdk_model.interfaces.game_engine.stop_input_handler_directive.StopInputHandlerDirective`,

Tasks.CompleteTask: `ask_sdk_model.interfaces.tasks.complete_task_directive.CompleteTaskDirective`,

Alexa.Presentation.APL.RenderDocument: `ask_sdk_model.interfaces.alexa.presentation.apl.render_document_directive.RenderDocumentDirective`,

Connections.SendResponse: `ask_sdk_model.interfaces.connections.send_response_directive.SendResponseDirective`,

AudioPlayer.ClearQueue: `ask_sdk_model.interfaces.audioplayer.clear_queue_directive.ClearQueueDirective`,

Alexa.Presentation.APL.UpdateIndexListData:
`ask_sdk_model.interfaces.alexa.presentation.apl.update_index_list_data_directive.UpdateIndexListDataDirective`

```
attribute_map = {'object_type': 'type'}
```

```
deserialized_types = {'object_type': 'str'}
```

```
discriminator_value_class_map = {'Alexa.Presentation.APL.ExecuteCommands': 'ask_sdk_m
```

```
classmethod get_real_child_model (data)
```

```
    Returns the real base class specified by the discriminator
```

```
json_discriminator_key = 'type'
```

```
supports_multiple_types = False
```

```
to_dict ()
```


Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

9.10 ask_sdk_model.intent module

class `ask_sdk_model.intent.Intent` (*name=None, slots=None, confirmation_status=None*)

Bases: `object`

An object that represents what the user wants.

Parameters

- **name** (*optional str*) – A string representing the name of the intent.
- **slots** (*optional dict(str, ask_sdk_model.slot.Slot)*) – A map of key-value pairs that further describes what the user meant based on a predefined intent schema. The map can be empty.
- **confirmation_status** (*optional ask_sdk_model.intent_confirmation_status.IntentConfirmationStatus*) –

`attribute_map = {'confirmation_status': 'confirmationStatus', 'name': 'name', 'slots`

`deserialized_types = {'confirmation_status': 'ask_sdk_model.intent_confirmation_status`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

9.11 ask_sdk_model.intent_confirmation_status module

class `ask_sdk_model.intent_confirmation_status.IntentConfirmationStatus`

Bases: `enum.Enum`

Indication of whether an intent or slot has been explicitly confirmed or denied by the user, or neither.

Allowed enum values: [NONE, DENIED, CONFIRMED]

`CONFIRMED = 'CONFIRMED'`

`DENIED = 'DENIED'`

`NONE = 'NONE'`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

9.12 ask_sdk_model.intent_request module

```
class ask_sdk_model.intent_request.IntentRequest (request_id=None, timestamp=None,  
                                                locale=None, dialog_state=None, intent=None)
```

Bases: `ask_sdk_model.request.Request`

An IntentRequest is an object that represents a request made to a skill based on what the user wants to do.

Parameters

- **request_id** (*optional* `str`) – Represents the unique identifier for the specific request.
- **timestamp** (*optional* `datetime`) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional* `str`) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **dialog_state** (*optional* `ask_sdk_model.dialog_state.DialogState`) – Enumeration indicating the status of the multi-turn dialog. This property is included if the skill meets the requirements to use the Dialog directives. Note that COMPLETED is only possible when you use the Dialog.Delegate directive. If you use intent confirmation, dialogState is considered COMPLETED if the user denies the entire intent (for instance, by answering “no” when asked the confirmation prompt). Be sure to also check the confirmationStatus property on the Intent object before fulfilling the user’s request.
- **intent** (*optional* `ask_sdk_model.intent.Intent`) – An object that represents what the user wants.

```
attribute_map = {'dialog_state': 'dialogState', 'intent': 'intent', 'locale': 'locale'}
```

```
deserialized_types = {'dialog_state': 'ask_sdk_model.dialog_state.DialogState', 'intent': 'ask_sdk_model.intent.Intent'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

9.13 ask_sdk_model.launch_request module

```
class ask_sdk_model.launch_request.LaunchRequest (request_id=None, timestamp=None,  
                                                  locale=None, task=None)
```

Bases: `ask_sdk_model.request.Request`

Represents that a user made a request to an Alexa skill, but did not provide a specific intent.

Parameters

- **request_id** (*optional* `str`) – Represents the unique identifier for the specific request.

- **timestamp** (*optional* *datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional* *str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **task** (*optional* *ask_sdk_model.task.Task*) –

```
attribute_map = {'locale': 'locale', 'object_type': 'type', 'request_id': 'requestID'}
deserialized_types = {'locale': 'str', 'object_type': 'str', 'request_id': 'str', 'task': 'Task'}
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

9.14 ask_sdk_model.permission_status module

```
class ask_sdk_model.permission_status.PermissionStatus
```

Bases: `enum.Enum`

This denotes the status of the permission scope.

Allowed enum values: [GRANTED, DENIED]

```
DENIED = 'DENIED'
```

```
GRANTED = 'GRANTED'
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

9.15 ask_sdk_model.permissions module

```
class ask_sdk_model.permissions.Permissions (consent_token=None, scopes=None)
```

Bases: `object`

Contains a `consentToken` allowing the skill access to information that the customer has consented to provide, such as address information. Note that the `consentToken` is deprecated. Use the `apiAccessToken` available in the context object to determine the user’s permissions.

Parameters

- **consent_token** (*optional* *str*) – A token listing all the permissions granted for this user.
- **scopes** (*optional* *dict(str, ask_sdk_model.scope.Scope)*) – A map where the key is a `LoginWithAmazon(LWA)` scope and value is a list of key:value pairs which describe the state of user actions on the LWA scope. For e.g. `"scopes": {"alexa::devices:all:geolocation:read": {"status": "GRANTED"}}` This value of `"alexa::devices:all:geolocation:read"` will determine if the

Geolocation data access is granted by the user, or else it will show a card of type `AskForPermissionsConsent` to the user to get this permission.

```
attribute_map = {'consent_token': 'consentToken', 'scopes': 'scopes'}
deserialized_types = {'consent_token': 'str', 'scopes': 'dict(str, ask_sdk_model.scop
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

9.16 ask_sdk_model.person module

class `ask_sdk_model.person.Person` (*person_id=None, access_token=None*)

Bases: `object`

An object that describes the user (person) who is making the request.

Parameters

- **person_id** (*optional str*) – A string that represents a unique identifier for the person who is making the request. The length of this identifier can vary, but is never more than 255 characters. It is generated when a recognized user makes a request to your skill.
- **access_token** (*optional str*) – A token identifying the user in another system. This is only provided if the recognized user has successfully linked their skill account with their Alexa profile. The `accessToken` field will not appear if null.

```
attribute_map = {'access_token': 'accessToken', 'person_id': 'personId'}
deserialized_types = {'access_token': 'str', 'person_id': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

9.17 ask_sdk_model.request module

class `ask_sdk_model.request.Request` (*object_type=None, request_id=None, timestamp=None, locale=None*)

Bases: `object`

A request object that provides the details of the user's request. The request body contains the parameters necessary for the service to perform its logic and generate a response.

Parameters

- **object_type** (*optional str*) – Describes the type of the request.
- **request_id** (*optional str*) – Represents the unique identifier for the specific request.

- **timestamp** (*optional* *datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*optional* *str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.

Note: This is an abstract class. Use the following mapping, to figure out the model class to be instantiated, that sets type variable.

AlexaSkillEvent.SkillEnabled: `ask_sdk_model.events.skillevents.skill_enabled_request.SkillEnabledRequest,`

AlexaHouseholdListEvent.ListUpdated: `ask_sdk_model.services.list_management.list_updated_event_request.ListUpdatedEventRequest,`

Alexa.Presentation.APL.UserEvent: `ask_sdk_model.interfaces.alexapresentation.apl.user_event.UserEvent,`

AlexaSkillEvent.SkillDisabled: `ask_sdk_model.events.skillevents.skill_disabled_request.SkillDisabledRequest,`

AlexaHouseholdListEvent.ItemsCreated: `ask_sdk_model.services.list_management.list_items_created_event_request.ListItemsCreatedEventRequest,`

SessionResumedRequest: `ask_sdk_model.session_resumed_request.SessionResumedRequest,`

SessionEndedRequest: `ask_sdk_model.session_ended_request.SessionEndedRequest,`

Alexa.Presentation.APL.LoadIndexListData: `ask_sdk_model.interfaces.alexapresentation.apl.load_index_list_data_event.LoadIndexListDataEvent,`

AudioPlayer.PlaybackFailed: `ask_sdk_model.interfaces.audioplayer.playback_failed_request.PlaybackFailedRequest,`

CanFulfillIntentRequest: `ask_sdk_model.canfulfill.can_fulfill_intent_request.CanFulfillIntentRequest,`

CustomInterfaceController.Expired: `ask_sdk_model.interfaces.custom_interface_controller.expired_request.ExpiredRequest,`

Alexa.Presentation.HTML.Message: `ask_sdk_model.interfaces.alexapresentation.html.message_request.MessageRequest,`

LaunchRequest: `ask_sdk_model.launch_request.LaunchRequest,`

Reminders.ReminderCreated: `ask_sdk_model.services.reminder_management.reminder_created_event_request.ReminderCreatedEventRequest,`

Alexa.Presentation.APLT.UserEvent:

`ask_sdk_model.interfaces.alexapresentation.aplt.user_event.UserEvent,`

AlexaHouseholdListEvent.ItemsUpdated: `ask_sdk_model.services.list_management.`

`list_items_updated_event_request.ListItemsUpdatedEventRequest,`

AlexaHouseholdListEvent.ListCreated: `ask_sdk_model.services.list_management.`

`list_created_event_request.ListCreatedEventRequest,`

AudioPlayer.PlaybackStarted: `ask_sdk_model.interfaces.audioplayer.`

`playback_started_request.PlaybackStartedRequest,`

AudioPlayer.PlaybackNearlyFinished: `ask_sdk_model.interfaces.audioplayer.`

`playback_nearly_finished_request.PlaybackNearlyFinishedRequest,`

CustomInterfaceController.EventsReceived: `ask_sdk_model.interfaces.`

`custom_interface_controller.events_received_request.EventsReceivedRequest,`

Reminders.ReminderStatusChanged: `ask_sdk_model.services.reminder_management.`

`reminder_status_changed_event_request.ReminderStatusChangedEventRequest,`

AlexaHouseholdListEvent.ItemsDeleted: `ask_sdk_model.services.list_management.`

`list_items_deleted_event_request.ListItemsDeletedEventRequest,`

Reminders.ReminderDeleted: `ask_sdk_model.services.reminder_management.`

`reminder_deleted_event_request.ReminderDeletedEventRequest,`

Connections.Response: `ask_sdk_model.interfaces.connections.connections_response.`

`ConnectionsResponse,`

AlexaHouseholdListEvent.ListDeleted: `ask_sdk_model.services.list_management.`

`list_deleted_event_request.ListDeletedEventRequest,`

GameEngine.InputHandlerEvent: `ask_sdk_model.interfaces.game_engine.`

`input_handler_event_request.InputHandlerEventRequest,`

PlaybackController.PauseCommandIssued: `ask_sdk_model.interfaces.playbackcontroller.`

`pause_command_issued_request.PauseCommandIssuedRequest,`

PlaybackController.PlayCommandIssued: `ask_sdk_model.interfaces.playbackcontroller.`

`play_command_issued_request.PlayCommandIssuedRequest,`

AudioPlayer.PlaybackFinished: `ask_sdk_model.interfaces.audioplayer.`

`playback_finished_request.PlaybackFinishedRequest,`

AlexaSkillEvent.ProactiveSubscriptionChanged:

`ask_sdk_model.events.skillevents.proactive_subscription_changed_request.`

`ProactiveSubscriptionChangedRequest,`

Display.ElementSelected: `ask_sdk_model.interfaces.display.element_selected_request.ElementSelectedRequest`,

AlexaSkillEvent.SkillPermissionChanged: `ask_sdk_model.events.skillevents.permission_changed_request.PermissionChangedRequest`,

Reminders.ReminderUpdated: `ask_sdk_model.services.reminder_management.reminder_updated_event_request.ReminderUpdatedEventRequest`,

Alexa.Presentation.APL.RuntimeError: `ask_sdk_model.interfaces.alexapresentation.apl.runtime_error_event.RuntimeErrorEvent`,

Alexa.Presentation.HTML.RuntimeError: `ask_sdk_model.interfaces.alexapresentation.html.runtime_error_request.RuntimeErrorRequest`,

IntentRequest: `ask_sdk_model.intent_request.IntentRequest`,

Reminders.ReminderStarted: `ask_sdk_model.services.reminder_management.reminder_started_event_request.ReminderStartedEventRequest`,

AudioPlayer.PlaybackStopped: `ask_sdk_model.interfaces.audioplayer.playback_stopped_request.PlaybackStoppedRequest`,

PlaybackController.PreviousCommandIssued:
`ask_sdk_model.interfaces.playbackcontroller.previous_command_issued_request.PreviousCommandIssuedRequest`,

AlexaSkillEvent.SkillAccountLinked: `ask_sdk_model.events.skillevents.account_linked_request.AccountLinkedRequest`,

Messaging.MessageReceived: `ask_sdk_model.interfaces.messaging.message_received_request.MessageReceivedRequest`,

Connections.Request: `ask_sdk_model.interfaces.connections.connections_request.ConnectionsRequest`,

System.ExceptionEncountered: `ask_sdk_model.interfaces.system.exception_encountered_request.ExceptionEncounteredRequest`,

AlexaSkillEvent.SkillPermissionAccepted: `ask_sdk_model.events.skillevents.permission_accepted_request.PermissionAcceptedRequest`,

PlaybackController.NextCommandIssued: `ask_sdk_model.interfaces.playbackcontroller.next_command_issued_request.NextCommandIssuedRequest`

`attribute_map = {'locale': 'locale', 'object_type': 'type', 'request_id': 'requestI`

```
deserialized_types = {'locale': 'str', 'object_type': 'str', 'request_id': 'str', '
discriminator_value_class_map = {'Alexa.Presentation.APL.LoadIndexListData': 'ask_sdk
classmethod get_real_child_model(data)
    Returns the real base class specified by the discriminator

json_discriminator_key = 'type'

supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
```

9.18 ask_sdk_model.request_envelope module

```
class ask_sdk_model.request_envelope.RequestEnvelope(version=None, session=None,
                                                    context=None, request=None)
```

Bases: `object`

Request wrapper for all requests sent to your Skill.

Parameters

- **version** (*optional*) `str` – The version specifier for the request.
- **session** (*optional*) `ask_sdk_model.session.Session` – The session object provides additional context associated with the request.
- **context** (*optional*) `ask_sdk_model.context.Context` – The context object provides your skill with information about the current state of the Alexa service and device at the time the request is sent to your service. This is included on all requests. For requests sent in the context of a session (LaunchRequest and IntentRequest), the context object duplicates the user and application information that is also available in the session.
- **request** (*optional*) `ask_sdk_model.request.Request` – A request object that provides the details of the user's request.

```
attribute_map = {'context': 'context', 'request': 'request', 'session': 'session',
deserialized_types = {'context': 'ask_sdk_model.context.Context', 'request': 'ask_sdk
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
```

9.19 ask_sdk_model.response module

```
class ask_sdk_model.response.Response(output_speech=None, card=None, reprompt=None,
                                       directives=None, should_end_session=None,
                                       can_fulfill_intent=None)
```

Bases: `object`

Parameters

- **output_speech** ((optional) ask_sdk_model.ui.output_speech.OutputSpeech)-
- **card**((optional) ask_sdk_model.ui.card.Card)-
- **reprompt**((optional) ask_sdk_model.ui.reprompt.Reprompt)-
- **directives** ((optional) list[ask_sdk_model.directive.Directive])-
- **should_end_session**((optional) bool)-
- **can_fulfill_intent** ((optional) ask_sdk_model.canfulfill.can_fulfill_intent.CanFulfillIntent)-

```
attribute_map = {'can_fulfill_intent': 'canFulfillIntent', 'card': 'card', 'directive': 'directive'}
```

```
deserialized_types = {'can_fulfill_intent': 'ask_sdk_model.canfulfill.can_fulfill_intent.CanFulfillIntent'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

9.20 ask_sdk_model.response_envelope module

```
class ask_sdk_model.response_envelope.ResponseEnvelope (version=None, session_attributes=None, user_agent=None, response=None)
```

Bases: object

Parameters

- **version**((optional) str)-
- **session_attributes**((optional) dict(str, object))-
- **user_agent**((optional) str)-
- **response**((optional) ask_sdk_model.response.Response)-

```
attribute_map = {'response': 'response', 'session_attributes': 'sessionAttributes', 'user_agent': 'userAgent'}
```

```
deserialized_types = {'response': 'ask_sdk_model.response.Response', 'session_attributes': 'dict(str, object)'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

9.21 ask_sdk_model.scope module

class ask_sdk_model.scope.Scope (*status=None*)

Bases: object

This is the value of LoginWithAmazon(LWA) consent scope. This object is used as in the key-value pairs that are provided in user.permissions.scopes object

```
    Parameters status ((optional) ask_sdk_model.permission_status.
        PermissionStatus)–
attribute_map = {'status': 'status'}
deserialized_types = {'status': 'ask_sdk_model.permission_status.PermissionStatus'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

9.22 ask_sdk_model.session module

class ask_sdk_model.session.Session (*new=None, session_id=None, user=None, attributes=None, application=None*)

Bases: object

Represents a single execution of the alexa service

Parameters

- **new** ((optional) bool) – A boolean value indicating whether this is a new session. Returns true for a new session or false for an existing session.
- **session_id** ((optional) str) – A string that represents a unique identifier per a user's active session.
- **user** ((optional) ask_sdk_model.user.User) – An object that describes the user making the request.
- **attributes** ((optional) dict(str, object)) – A map of key-value pairs. The attributes map is empty for requests where a new session has started with the property new set to true. When returning your response, you can include data you need to persist during the session in the sessionAttributes property. The attributes you provide are then passed back to your skill on the next request.
- **application** ((optional) ask_sdk_model.application.Application) –

```
attribute_map = {'application': 'application', 'attributes': 'attributes', 'new': 'new'}
deserialized_types = {'application': 'ask_sdk_model.application.Application', 'attributes': 'attributes'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

9.23 ask_sdk_model.session_ended_error module

```
class ask_sdk_model.session_ended_error.SessionEndedError (object_type=None,
                                                         message=None)
```

Bases: `object`

An error object providing more information about the error that occurred.

Parameters

- **object_type** (*optional*) `ask_sdk_model.session_ended_error_type.SessionEndedErrorType` – A string indicating the type of error that occurred.
- **message** (*optional*) `str` – A string providing more information about the error.

```
attribute_map = {'message': 'message', 'object_type': 'type'}
```

```
deserialized_types = {'message': 'str', 'object_type': 'ask_sdk_model.session_ended_
```

```
supports_multiple_types = False
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

9.24 ask_sdk_model.session_ended_error_type module

```
class ask_sdk_model.session_ended_error_type.SessionEndedErrorType
```

Bases: `enum.Enum`

A string indicating the type of error that occurred.

Allowed enum values: [INVALID_RESPONSE, DEVICE_COMMUNICATION_ERROR, INTERNAL_SERVICE_ERROR, ENDPOINT_TIMEOUT]

```
DEVICE_COMMUNICATION_ERROR = 'DEVICE_COMMUNICATION_ERROR'
```

```
ENDPOINT_TIMEOUT = 'ENDPOINT_TIMEOUT'
```

```
INTERNAL_SERVICE_ERROR = 'INTERNAL_SERVICE_ERROR'
```

```
INVALID_RESPONSE = 'INVALID_RESPONSE'
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

9.25 ask_sdk_model.session_ended_reason module

```
class ask_sdk_model.session_ended_reason.SessionEndedReason
```

Bases: `enum.Enum`

The reason why session ended when not initiated from the Skill itself.

Allowed enum values: [USER_INITIATED, ERROR, EXCEEDED_MAX_REPROMPTS]

ERROR = 'ERROR'

EXCEEDED_MAX_REPROMPTS = 'EXCEEDED_MAX_REPROMPTS'

USER_INITIATED = 'USER_INITIATED'

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

9.26 ask_sdk_model.session_ended_request module

```
class ask_sdk_model.session_ended_request.SessionEndedRequest (request_id=None,
                                                             timestamp=None,
                                                             locale=None,
                                                             reason=None,
                                                             error=None)
```

Bases: *ask_sdk_model.request.Request*

A SessionEndedRequest is an object that represents a request made to an Alexa skill to notify that a session was ended. Your service receives a SessionEndedRequest when a currently open session is closed for one of the following reasons:

- The user says “exit”the user does not respond or says something that does not match an intent defined in your voice interface while the device is listening for the user’s responsean error occurs

Parameters

- **request_id** ((*optional*) *str*) – Represents the unique identifier for the specific request.
- **timestamp** ((*optional*) *datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** ((*optional*) *str*) – A string indicating the user’s locale. For example: en-US. This value is only provided with certain request types.
- **reason** ((*optional*) *ask_sdk_model.session_ended_reason.SessionEndedReason*) – Describes why the session ended.
- **error** ((*optional*) *ask_sdk_model.session_ended_error.SessionEndedError*) – An error object providing more information about the error that occurred.

```
attribute_map = {'error': 'error', 'locale': 'locale', 'object_type': 'type', 'reason': 'reason'}
```

```
deserialized_types = {'error': 'ask_sdk_model.session_ended_error.SessionEndedError', 'reason': 'ask_sdk_model.session_ended_reason.SessionEndedReason'}
```

```
supports_multiple_types = False
```

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

9.27 ask_sdk_model.session_resumed_request module

```
class ask_sdk_model.session_resumed_request.SessionResumedRequest (request_id=None,
                                                                    times-
                                                                    tamp=None,
                                                                    lo-
                                                                    cale=None,
                                                                    cause=None)
```

Bases: `ask_sdk_model.request.Request`

The request to resume a skill's session and tells the skill why it is resumed.

Parameters

- **request_id** (*(optional) str*) – Represents the unique identifier for the specific request.
- **timestamp** (*(optional) datetime*) – Provides the date and time when Alexa sent the request as an ISO 8601 formatted string. Used to verify the request when hosting your skill as a web service.
- **locale** (*(optional) str*) – A string indicating the user's locale. For example: en-US. This value is only provided with certain request types.
- **cause** (*(optional) ask_sdk_model.cause.Cause*) –

```
attribute_map = {'cause': 'cause', 'locale': 'locale', 'object_type': 'type', 'requ
```

```
deserialized_types = {'cause': 'ask_sdk_model.cause.Cause', 'locale': 'str', 'object
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

9.28 ask_sdk_model.slot module

```
class ask_sdk_model.slot.Slot (name=None, value=None, confirmation_status=None, resolu-
                               tions=None)
```

Bases: `object`

Parameters

- **name** (*(optional) str*) – A string that represents the name of the slot.
- **value** (*(optional) str*) – A string that represents the value the user spoke for the slot. This is the actual value the user spoke, not necessarily the canonical value or one of the synonyms defined for the entity. Note that AMAZON.LITERAL slot values sent to your service are always in all lower case.
- **confirmation_status** (*(optional) ask_sdk_model.slot_confirmation_status.SlotConfirmationStatus*) – Indication of whether an intent or slot has been explicitly confirmed or denied by the user, or neither.
- **resolutions** (*(optional) ask_sdk_model.slu.entityresolution.resolutions.Resolutions*) – Contains the results of entity resolution. These are

organized by authority. An authority represents the source for the data provided for the slot. For a custom slot type, the authority is the slot type you defined.

```
attribute_map = {'confirmation_status': 'confirmationStatus', 'name': 'name', 'resolved_slot_type': 'resolvedSlotType'}
deserialized_types = {'confirmation_status': 'ask_sdk_model.slot_confirmation_status.Status'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

9.29 ask_sdk_model.slot_confirmation_status module

class ask_sdk_model.slot_confirmation_status.SlotConfirmationStatus

Bases: `enum.Enum`

An enumeration indicating whether the user has explicitly confirmed or denied the value of this slot.

Allowed enum values: [NONE, DENIED, CONFIRMED]

CONFIRMED = 'CONFIRMED'

DENIED = 'DENIED'

NONE = 'NONE'

to_dict()
Returns the model properties as a dict

to_str()
Returns the string representation of the model

9.30 ask_sdk_model.status module

class ask_sdk_model.status.Status (*code=None, message=None*)

Bases: `object`

Status indicates a high level understanding of the result of an execution.

Parameters

- **code** (*optional str*) – This is a code signifying the status of the execution initiated by the skill. Protocol adheres to HTTP status codes.
- **message** (*optional str*) – This is a message that goes along with response code that can provide more information about what occurred.

```
attribute_map = {'code': 'code', 'message': 'message'}
```

```
deserialized_types = {'code': 'str', 'message': 'str'}
```

```
supports_multiple_types = False
```

to_dict()
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

9.31 ask_sdk_model.supported_interfaces module

```
class ask_sdk_model.supported_interfaces.SupportedInterfaces (alex_aresentation_apl=None,
                                                            alex_aresentation_aplt=None,
                                                            alex_aresentation_html=None,
                                                            au-
                                                            dio_player=None,
                                                            display=None,
                                                            video_app=None,
                                                            geolocation=None,
                                                            navigation=None)
```

Bases: `object`

An object listing each interface that the device supports. For example, if `supportedInterfaces` includes `AudioPlayer {}`, then you know that the device supports streaming audio using the `AudioPlayer` interface.

Parameters

- **alex_aresentation_apl** ((*optional*) `ask_sdk_model.interfaces.alex_aresentation_apl.alex_aresentation_apl_interface.AlexaPresentationAplInterface`)–
- **alex_aresentation_aplt** ((*optional*) `ask_sdk_model.interfaces.alex_aresentation_aplt.alex_aresentation_aplt_interface.AlexaPresentationApltInterface`)–
- **alex_aresentation_html** ((*optional*) `ask_sdk_model.interfaces.alex_aresentation_html.alex_aresentation_html_interface.AlexaPresentationHtmlInterface`)–
- **audio_player** ((*optional*) `ask_sdk_model.interfaces.audioplayer.audio_player_interface.AudioPlayerInterface`)–
- **display** ((*optional*) `ask_sdk_model.interfaces.display.display_interface.DisplayInterface`)–
- **video_app** ((*optional*) `ask_sdk_model.interfaces.videoapp.video_app_interface.VideoAppInterface`)–
- **geolocation** ((*optional*) `ask_sdk_model.interfaces.geolocation.geolocation_interface.GeolocationInterface`)–
- **navigation** ((*optional*) `ask_sdk_model.interfaces.navigation.navigation_interface.NavigationInterface`)–

```
attribute_map = {'alex_aresentation_apl': 'Alexa.Presentation.APL', 'alex_aresentation_aplt': 'Alexa.Presentation.APLT', 'alex_aresentation_html': 'Alexa.Presentation.HTML', 'audio_player': 'AudioPlayer', 'display': 'Display', 'video_app': 'VideoApp', 'geolocation': 'Geolocation', 'navigation': 'Navigation'}
```

```
deserialized_types = {'alex_aresentation_apl': 'ask_sdk_model.interfaces.alex_aresentation_apl_interface.AlexaPresentationAplInterface', 'alex_aresentation_aplt': 'ask_sdk_model.interfaces.alex_aresentation_aplt_interface.AlexaPresentationApltInterface', 'alex_aresentation_html': 'ask_sdk_model.interfaces.alex_aresentation_html_interface.AlexaPresentationHtmlInterface', 'audio_player': 'ask_sdk_model.interfaces.audioplayer.audio_player_interface.AudioPlayerInterface', 'display': 'ask_sdk_model.interfaces.display_interface.DisplayInterface', 'video_app': 'ask_sdk_model.interfaces.videoapp.video_app_interface.VideoAppInterface', 'geolocation': 'ask_sdk_model.interfaces.geolocation.geolocation_interface.GeolocationInterface', 'navigation': 'ask_sdk_model.interfaces.navigation.navigation_interface.NavigationInterface'}
```

```
supports_multiple_types = False
```

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

9.32 ask_sdk_model.task module

class ask_sdk_model.task.Task (*name=None, version=None, input=None*)

Bases: object

This object encapsulates a specific functionality.

Parameters

- **name** (*optional str*) – Represents the name of the task.
- **version** (*optional str*) – Represents the version of the task.
- **input** (*optional object*) – Represents the input to handle the task.

```
attribute_map = {'input': 'input', 'name': 'name', 'version': 'version'}
```

```
deserialized_types = {'input': 'object', 'name': 'str', 'version': 'str'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

9.33 ask_sdk_model.user module

class ask_sdk_model.user.User (*user_id=None, access_token=None, permissions=None*)

Bases: object

An object that describes the Amazon account for which the skill is enabled.

Parameters

- **user_id** (*optional str*) – A string that represents a unique identifier for the user who made the request. The length of this identifier can vary, but is never more than 255 characters. The `userId` is automatically generated when a user enables the skill in the Alexa app. Note: Disabling and re-enabling a skill generates a new identifier.
- **access_token** (*optional str*) – A token identifying the user in another system. This is only provided if the user has successfully linked their skill account with their Amazon account.
- **permissions** (*optional ask_sdk_model.permissions.Permissions*) –

```
attribute_map = {'access_token': 'accessToken', 'permissions': 'permissions', 'user_
```

```
deserialized_types = {'access_token': 'str', 'permissions': 'ask_sdk_model.permissio
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ASK SMAPI Models :ask_smapi_model package

The ASK SMAPI Model classes contain the model definitions for Skill Management APIs (SMAPI) by the Software Development Kit (SDK) team for Python. It allows Python developers to model the requests, responses and related JSON structures, as defined in [SMAPI Documentation](#).

10.1 Subpackages

10.1.1 ask_smapi_model.services package

Subpackages

ask_smapi_model.services.skill_management package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_smapi_model.services.skill_management.skill_management_service_client module

class ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient

Bases: *ask_sdk_model_runtime.base_service_client.BaseServiceClient*

ServiceClient for calling the SkillManagementService APIs.

Parameters **api_configuration** (*ask_sdk_model_runtime.api_configuration.ApiConfiguration*) – Instance of ApiConfiguration

add_testers_to_beta_test_v1 (*skill_id, testers_request, **kwargs*)

Add testers to an existing beta test. Add testers to a beta test for the given Alexa skill. System will send invitation email to each tester and add entitlement on the acceptance.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **testers_request** (*ask_smapi_model.v1.skill.beta_test.testers.testers_list.TestersList*) – (required) JSON object containing the email address of beta testers.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV1*, *BadRequestErrorV1*]

associate_catalog_with_skill_v0 (*skill_id, catalog_id, **kwargs*)

Associate skill with catalog.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **catalog_id** (*str*) – (required) Provides a unique identifier of the catalog
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV0*, *BadRequestErrorV0*]

associate_isp_with_skill_v1 (*product_id, skill_id, **kwargs*)

Associates an in-skill product with a skill.

Parameters

- **product_id** (*str*) – (required) The in-skill product ID.
- **skill_id** (*str*) – (required) The skill ID.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, BadRequestErrorV1]

clone_locale_v1 (*skill_id*, *stage_v2*, *clone_locale_request*, ***kwargs*)

Creates a new clone locale workflow for a skill with given skillId, source locale, and target locales. In a single workflow, a locale can be cloned to multiple target locales. However, only one such workflow can be started at any time.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **stage_v2** (*str*) – (required) Stages of a skill on which locales can be cloned. Currently only *development* stage is supported. * *development* - skills which are currently in development corresponds to this stage.
- **clone_locale_request** (*ask_smapi_model.v1.skill.clone_locale_request.CloneLocaleRequest*) – (required) Defines the request body for the cloneLocale API.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1]

complete_catalog_upload_v0 (*catalog_id*, *upload_id*, *complete_upload_request_payload*, ***kwargs*)

Completes an upload. To be called after the file is uploaded to the backend data store using presigned url(s).

Parameters

- **catalog_id** (*str*) – (required) Provides a unique identifier of the catalog
- **upload_id** (*str*) – (required) Unique identifier of the upload
- **complete_upload_request_payload** (*ask_smapi_model.v0.catalog.upload.complete_upload_request.CompleteUploadRequest*) – (required) Request payload to complete an upload.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV0, BadRequestErrorV0]

create_asr_annotation_set_v1 (*skill_id*, *create_asr_annotation_set_request*, ***kwargs*)

Create a new ASR annotation set for a skill This is an API that creates a new ASR annotation set with a name and returns the annotationSetId which can later be used to retrieve or reference the annotation set

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **create_asr_annotation_set_request** (*ask_smapi_model.v1.skill.asr.annotation_sets.create_asr_annotation_set_request_object.CreateAsrAnnotationSetRequestObject*) – (required) Payload sent to the create ASR annotation set API.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, BadRequestErrorV1, CreateAsrAnnotationSetResponseV1]

create_asr_evaluation_v1 (*post_asr_evaluations_request*, *skill_id*, ***kwargs*)

Start an evaluation against the ASR model built by the skill's interaction model. This is an asynchronous API that starts an evaluation against the ASR model built by the skill's interaction model. The operation outputs an evaluationId which allows the retrieval of the current status of the operation and the results upon completion. This operation is unified, meaning both internal and external skill developers may use it to evaluate ASR models.

Parameters

- **post_asr_evaluations_request** (*ask_smapi_model.v1.skill.asr_evaluations.post_asr_evaluations_request_object.PostAsrEvaluationsRequestObject*) – (required) Payload sent to trigger evaluation run.
- **skill_id** (*str*) – (required) The skill ID.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, PostAsrEvaluationsResponseObjectV1, BadRequestErrorV1]

create_beta_test_v1 (*skill_id*, ***kwargs*)

Create beta test. Create a beta test for a given Alexa skill.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **create_test_body** (*ask_smapi_model.v1.skill.beta_test.test_body.TestBody*) – JSON object containing the details of a beta test used to create the test.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, BadRequestErrorV1]

create_catalog_upload_v1 (*catalog_id*, *catalog_upload_request_body*, ***kwargs*)

Create new upload Creates a new upload for a catalog and returns location to track the upload process.

Parameters

- **catalog_id** (*str*) – (required) Provides a unique identifier of the catalog
- **catalog_upload_request_body** (*ask_smapi_model.v1.catalog_upload.catalog_upload_base.CatalogUploadBase*) – (required) Provides the request body for create content upload
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, BadRequestErrorV1]

create_catalog_v0 (*create_catalog_request*, ***kwargs*)

Creates a new catalog based on information provided in the request.

Parameters

- **create_catalog_request** (*ask_smapi_model.v0.catalog.create_catalog_request.CreateCatalogRequest*) – (required) Defines the request body for createCatalog API.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV0, CatalogDetailsV0, BadRequestErrorV0]

create_content_upload_v0 (*catalog_id, create_content_upload_request, **kwargs*)

Creates a new upload for a catalog and returns presigned upload parts for uploading the file.

Parameters

- **catalog_id** (*str*) – (required) Provides a unique identifier of the catalog
- **create_content_upload_request** (*ask_smapi_model.v0.catalog.upload.create_content_upload_request.CreateContentUploadRequest*) – (required) Defines the request body for updateCatalog API.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV0, CreateContentUploadResponseV0, BadRequestErrorV0]

create_export_request_for_skill_v1 (*skill_id, stage, **kwargs*)

Creates a new export for a skill with given skillId and stage.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **stage** (*str*) – (required) Stage for skill.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1]

create_interaction_model_catalog_v1 (*catalog, **kwargs*)

Create a new version of catalog within the given catalogId.

Parameters

- **catalog** (*ask_smapi_model.v1.skill.interaction_model.catalog.definition_data.DefinitionData*) – (required)
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, CatalogResponseV1, StandardizedErrorV1, BadRequestErrorV1]

create_interaction_model_catalog_version_v1 (*catalog_id, catalog, **kwargs*)

Create a new version of catalog entity for the given catalogId.

Parameters

- **catalog_id** (*str*) – (required) Provides a unique identifier of the catalog

- **catalog** (`ask_smapi_model.v1.skill.interaction_model.version.version_data.VersionData`) – (required)
- **full_response** (`boolean`) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1]

create_interaction_model_slot_type_v1 (*slot_type*, ***kwargs*)

Create a new version of slot type within the given slotTypeId.

Parameters

- **slot_type** (`ask_smapi_model.v1.skill.interaction_model.model_type.definition_data.DefinitionData`) – (required)
- **full_response** (`boolean`) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, SlotTypeResponseV1, BadRequestErrorV1]

create_interaction_model_slot_type_version_v1 (*slot_type_id*, *slot_type*, ***kwargs*)

Create a new version of slot type entity for the given slotTypeId.

Parameters

- **slot_type_id** (`str`) – (required) The identifier for a slot type.
- **slot_type** (`ask_smapi_model.v1.skill.interaction_model.type_version.version_data.VersionData`) – (required)
- **full_response** (`boolean`) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1]

create_isp_for_vendor_v1 (*create_in_skill_product_request*, ***kwargs*)

Creates a new in-skill product for given vendorId.

Parameters

- **create_in_skill_product_request** (`ask_smapi_model.v1.isp.create_in_skill_product_request.CreateInSkillProductRequest`) – (required) defines the request body for createInSkillProduct API.
- **full_response** (`boolean`) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ProductResponseV1, ErrorV1, BadRequestErrorV1]

create_nlu_annotation_set_v1 (*skill_id*, *create_nlu_annotation_set_request*, ***kwargs*)

Create a new NLU annotation set for a skill which will generate a new annotationId. This is an API that creates a new NLU annotation set with properties and returns the annotationId.

Parameters

- **skill_id** (`str`) – (required) The skill ID.

- **create_nlu_annotation_set_request** (`ask_smapi_model.v1.skill.nlu.annotation_sets.create_nlu_annotation_set_request.CreateNLUAnnotationSetRequest`) – (required) Payload sent to the create NLU annotation set API.
- **full_response** (`boolean`) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[`ApiResponse`, `CreateNLUAnnotationSetResponseV1`, `ErrorV1`, `BadRequestErrorV1`]

create_nlu_evaluations_v1 (`evaluate_nlu_request`, `skill_id`, `**kwargs`)

Start an evaluation against the NLU model built by the skill's interaction model. This is an asynchronous API that starts an evaluation against the NLU model built by the skill's interaction model. The operation outputs an evaluationId which allows the retrieval of the current status of the operation and the results upon completion. This operation is unified, meaning both internal and external skill developers may use it evaluate NLU models.

Parameters

- **evaluate_nlu_request** (`ask_smapi_model.v1.skill.nlu.evaluations.evaluate_nlu_request.EvaluateNLURequest`) – (required) Payload sent to the evaluate NLU API.
- **skill_id** (`str`) – (required) The skill ID.
- **full_response** (`boolean`) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[`ApiResponse`, `EvaluateResponseV1`, `ErrorV1`, `BadRequestErrorV1`]

create_skill_for_vendor_v1 (`create_skill_request`, `**kwargs`)

Creates a new skill for given vendorId.

Parameters

- **create_skill_request** (`ask_smapi_model.v1.skill.create_skill_request.CreateSkillRequest`) – (required) Defines the request body for createSkill API.
- **full_response** (`boolean`) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[`ApiResponse`, `StandardizedErrorV1`, `CreateSkillResponseV1`, `BadRequestErrorV1`]

create_skill_package_v1 (`create_skill_with_package_request`, `**kwargs`)

Creates a new import for a skill.

Parameters

- **create_skill_with_package_request** (`ask_smapi_model.v1.skill.create_skill_with_package_request.CreateSkillWithPackageRequest`) – (required) Defines the request body for createPackage API.
- **full_response** (`boolean`) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1]

create_subscriber_for_development_events_v0 (*create_subscriber_request*, ***kwargs*)
 Creates a new subscriber resource for a vendor.

Parameters

- **create_subscriber_request** (*ask_smapi_model.v0.development_events.subscriber.create_subscriber_request.CreateSubscriberRequest*) – (required) Defines the request body for createSubscriber API.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV0, BadRequestErrorV0]

create_subscription_for_development_events_v0 (***kwargs*)
 Creates a new subscription for a subscriber. This needs to be authorized by the client/vendor who created the subscriber and the vendor who publishes the event.

Parameters

- **create_subscription_request** (*ask_smapi_model.v0.development_events.subscription.create_subscription_request.CreateSubscriptionRequest*) – Request body for createSubscription API.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV0, BadRequestErrorV0]

create_upload_url_v1 (***kwargs*)
 Creates a new uploadUrl.

Parameters **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, UploadResponseV1]

delete_account_linking_info_v1 (*skill_id*, *stage_v2*, ***kwargs*)
 Delete AccountLinking information of a skill for the given stage.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **stage_v2** (*str*) – (required) Stages of a skill including the new certified stage. * *development* - skills which are currently in development corresponds to this stage. * *certified* - skills which have completed certification and ready for publishing corresponds to this stage. * *live* - skills which are currently live corresponds to this stage.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1]

delete_asr_annotation_set_v1 (*skill_id*, *annotation_set_id*, ***kwargs*)
 Delete the ASR annotation set API which deletes the ASR annotation set. Developers cannot get/list the deleted annotation set.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **annotation_set_id** (*str*) – (required) Identifier of the ASR annotation set.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, BadRequestErrorV1]

delete_asr_evaluation_v1 (*skill_id*, *evaluation_id*, ***kwargs*)

Delete an evaluation. API which enables the deletion of an evaluation.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **evaluation_id** (*str*) – (required) Identifier of the evaluation.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, BadRequestErrorV1]

delete_interaction_model_catalog_v1 (*catalog_id*, ***kwargs*)

Delete the catalog.

Parameters

- **catalog_id** (*str*) – (required) Provides a unique identifier of the catalog
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1]

delete_interaction_model_catalog_version_v1 (*catalog_id*, *version*, ***kwargs*)

Delete catalog version.

Parameters

- **catalog_id** (*str*) – (required) Provides a unique identifier of the catalog
- **version** (*str*) – (required) Version for interaction model.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1]

delete_interaction_model_slot_type_v1 (*slot_type_id*, ***kwargs*)

Delete the slot type.

Parameters

- **slot_type_id** (*str*) – (required) The identifier for a slot type.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1]

delete_interaction_model_slot_type_version_v1 (*slot_type_id, version, **kwargs*)
Delete slot type version.

Parameters

- **slot_type_id** (*str*) – (required) The identifier for a slot type.
- **version** (*str*) – (required) Version for interaction model.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1]

delete_isp_for_product_v1 (*product_id, stage, **kwargs*)
Deletes the in-skill product for given productId. Only development stage supported. Live in-skill products or in-skill products associated with a skill cannot be deleted by this API.

Parameters

- **product_id** (*str*) – (required) The in-skill product ID.
- **stage** (*str*) – (required) Stage for skill.
- **if_match** (*str*) – Request header that specified an entity tag. The server will update the resource only if the eTag matches with the resource’s current eTag.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, BadRequestErrorV1]

delete_private_distribution_account_id_v1 (*skill_id, stage, id, **kwargs*)
Remove an id from the private distribution accounts.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **stage** (*str*) – (required) Stage for skill.
- **id** (*str*) – (required) ARN that a skill can be privately distributed to.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1]

delete_properties_for_nlu_annotation_sets_v1 (*skill_id, annotation_id, **kwargs*)
Delete the NLU annotation set API which deletes the NLU annotation set. Developers cannot get/list the deleted annotation set.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **annotation_id** (*str*) – (required) Identifier of the NLU annotation set.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, BadRequestErrorV1]

delete_skill_enablement_v1 (*skill_id*, *stage*, ***kwargs*)

Deletes the enablement for given skillId/stage and customerId (retrieved from Auth token).

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **stage** (*str*) – (required) Stage for skill.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1]

delete_skill_v1 (*skill_id*, ***kwargs*)

Delete the skill and model for given skillId.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1]

delete_subscriber_for_development_events_v0 (*subscriber_id*, ***kwargs*)

Deletes a specified subscriber.

Parameters

- **subscriber_id** (*str*) – (required) Unique identifier of the subscriber.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV0, BadRequestErrorV0]

delete_subscription_for_development_events_v0 (*subscription_id*, ***kwargs*)

Deletes a particular subscription. Both, the vendor who created the subscriber and the vendor who publishes the event can delete this resource with appropriate authorization.

Parameters

- **subscription_id** (*str*) – (required) Unique identifier of the subscription.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV0, BadRequestErrorV0]

disassociate_isp_with_skill_v1 (*product_id*, *skill_id*, ***kwargs*)

Disassociates an in-skill product from a skill.

Parameters

- **product_id** (*str*) – (required) The in-skill product ID.
- **skill_id** (*str*) – (required) The skill ID.

- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV1*, *BadRequestErrorV1*]

end_beta_test_v1 (*skill_id*, ***kwargs*)

End beta test. End a beta test for a given Alexa skill. System will revoke the entitlement of each tester and send access-end notification email to them.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV1*, *BadRequestErrorV1*]

generate_catalog_upload_url_v1 (*catalog_id*, *generate_catalog_upload_url_request_body*, ***kwargs*)

Generates preSigned urls to upload data

Parameters

- **catalog_id** (*str*) – (required) Provides a unique identifier of the catalog
- **generate_catalog_upload_url_request_body** (*ask_smapi_model.v1.catalog.create_content_upload_url_request.CreateContentUploadUrlRequest*) – (required) Request body to generate catalog upload url
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV1*, *CreateContentUploadUrlResponseV1*, *BadRequestErrorV1*]

generate_credentials_for_alex_hosted_skill_v1 (*skill_id*, *hosted_skill_repository_credentials_request*, ***kwargs*)

Generates hosted skill repository credentials to access the hosted skill repository.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **hosted_skill_repository_credentials_request** (*ask_smapi_model.v1.skill.alex_hosted_hosted_skill_repository_credentials_request.HostedSkillRepositoryCredentialsRequest*) – (required) defines the request body for hosted skill repository credentials
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *HostedSkillRepositoryCredentialsListV1*, *StandardizedErrorV1*, *BadRequestErrorV1*]

get_account_linking_info_v1 (*skill_id*, *stage_v2*, ***kwargs*)

Get AccountLinking information for the skill.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **stage_v2** (*str*) – (required) Stages of a skill including the new certified stage. * *development* - skills which are currently in development corresponds to this stage. * *certified* - skills which have completed certification and ready for publishing corresponds to this stage. * *live* - skills which are currently live corresponds to this stage.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, AccountLinkingResponseV1, BadRequestErrorV1]

get_alex_hosted_skill_metadata_v1 (*skill_id*, ***kwargs*)

Get Alexa hosted skill's metadata

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, HostedSkillMetadataV1, BadRequestErrorV1]

get_alex_hosted_skill_user_permissions_v1 (*vendor_id*, *permission*, ***kwargs*)

Get the current user permissions about Alexa hosted skill features.

Parameters

- **vendor_id** (*str*) – (required) vendorId
- **permission** (*str*) – (required) The permission of a hosted skill feature that customer needs to check.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, HostedSkillPermissionV1, StandardizedErrorV1, BadRequestErrorV1]

get_annotations_for_asr_annotation_set_v1 (*skill_id*, *annotation_set_id*, *accept*, ***kwargs*)

Download the annotation set contents.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **annotation_set_id** (*str*) – (required) Identifier of the ASR annotation set.
- **accept** (*str*) – (required) - *application/json*: indicate to download annotation set contents in JSON format - *text/csv*: indicate to download annotation set contents in CSV format
- **next_token** (*str*) – When response to this API call is truncated (that is, isTruncated response element value is true), the response also includes the nextToken element. The value of nextToken can be used in the next request as the continuation-token to list the

next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.

- **max_results** (*float*) – Sets the maximum number of results returned in the response body. Defaults to 1000. If more results are present, the response will contain a pagination-Context.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, GetAsrAnnotationSetAnnotationsResponseV1, ErrorV1, BadRequestErrorV1]

get_annotations_for_nlu_annotation_sets_v1 (*skill_id*, *annotation_id*, *accept*, ***kwargs*)

Get the annotations of an NLU annotation set

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **annotation_id** (*str*) – (required) Identifier of the NLU annotation set.
- **accept** (*str*) – (required) Standard HTTP. Pass *application/json* or *test/csv* for GET calls.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, BadRequestErrorV1]

get_asr_annotation_set_v1 (*skill_id*, *annotation_set_id*, ***kwargs*)

Get the metadata of an ASR annotation set Return the metadata for an ASR annotation set.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **annotation_set_id** (*str*) – (required) Identifier of the ASR annotation set.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, GetASRAnnotationSetsPropertiesResponseV1, ErrorV1, BadRequestErrorV1]

get_asr_evaluation_status_v1 (*skill_id*, *evaluation_id*, ***kwargs*)

Get high level information and status of a asr evaluation. API which requests high level information about the evaluation like the current state of the job, status of the evaluation (if complete). Also returns the request used to start the job, like the number of total evaluations, number of completed evaluations, and start time. This should be considered the “cheap” operation while GetAsrEvaluationsResults is “expensive”.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **evaluation_id** (*str*) – (required) Identifier of the evaluation.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, BadRequestErrorV1, GetAsrEvaluationStatusResponseObjectV1]

get_beta_test_v1 (*skill_id*, ***kwargs*)

Get beta test. Get beta test for a given Alexa skill.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, BadRequestErrorV1, BetaTestV1]

get_catalog_v0 (*catalog_id*, ***kwargs*)

Returns information about a particular catalog.

Parameters

- **catalog_id** (*str*) – (required) Provides a unique identifier of the catalog
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV0, CatalogDetailsV0, BadRequestErrorV0]

get_certification_review_v1 (*skill_id*, *certification_id*, ***kwargs*)

Gets a specific certification resource. The response contains the review tracking information for a skill to show how much time the skill is expected to remain under review by Amazon. Once the review is complete, the response also contains the outcome of the review. Old certifications may not be available, however any ongoing certification would always give a response. If the certification is unavailable the result will return a 404 HTTP status code.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **certification_id** (*str*) – (required) Id of the certification. Reserved word identifier of mostRecent can be used to get the most recent certification for the skill. Note that the behavior of the API in this case would be the same as when the actual certification id of the most recent certification is used in the request.
- **accept_language** (*str*) – User's locale/language in context.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, CertificationResponseV1, ErrorV1]

get_certifications_list_v1 (*skill_id*, ***kwargs*)

Get list of all certifications available for a skill, including information about past certifications and any ongoing certification. The default sort order is descending on skillSubmissionTimestamp for Certifications.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **next_token** (*str*) – When response to this API call is truncated (that is, isTruncated response element value is true), the response also includes the nextToken element. The value of nextToken can be used in the next request as the continuation-token to list the

next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.

- **max_results** (*float*) – Sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 50 results, you can add this parameter to your request. `maxResults` should not exceed the upper limit. The response might contain fewer results than `maxResults`, but it will never contain more. If there are additional results that satisfy the search criteria, but these results were not returned, the response contains `isTruncated = true`.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to `False`.

Return type Union[*ApiResponse*, *ErrorV1*, *ListCertificationsResponseV1*, *BadRequestErrorV1*]

get_clone_locale_status_v1 (*skill_id*, *stage_v2*, *clone_locale_request_id*, ***kwargs*)

Returns the status of a clone locale workflow associated with the unique identifier of `cloneLocaleRequestId`.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **stage_v2** (*str*) – (required) Stages of a skill on which locales can be cloned. Currently only *development* stage is supported. * *development* - skills which are currently in development corresponds to this stage.
- **clone_locale_request_id** (*str*) – (required) Defines the identifier for a clone locale workflow. If set to `~latest`, request returns the status of the latest clone locale workflow.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to `False`.

Return type Union[*ApiResponse*, *StandardizedErrorV1*, *CloneLocaleStatusResponseV1*, *BadRequestErrorV1*]

get_conflict_detection_job_status_for_interaction_model_v1 (*skill_id*, *locale*, *stage*, *version*, ***kwargs*)

Retrieve conflict detection job status for skill. This API returns the job status of conflict detection job for a specified interaction model.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **locale** (*str*) – (required) The locale for the model requested e.g. `en-GB`, `en-US`, `de-DE`.
- **stage** (*str*) – (required) Stage of the interaction model.
- **version** (*str*) – (required) Version of interaction model. Use “`~current`” to get the model of the current version.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to `False`.

Return type Union[*ApiResponse*, StandardizedErrorV1, GetConflictDetectionJobStatusResponseV1, BadRequestErrorV1]

get_conflicts_for_interaction_model_v1 (*skill_id, locale, stage, version, **kwargs*)

Retrieve conflict detection results for a specified interaction model. This is a paginated API that retrieves results of conflict detection job for a specified interaction model.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **locale** (*str*) – (required) The locale for the model requested e.g. en-GB, en-US, de-DE.
- **stage** (*str*) – (required) Stage of the interaction model.
- **version** (*str*) – (required) Version of interaction model. Use “~current” to get the model of the current version.
- **next_token** (*str*) – When response to this API call is truncated (that is, isTruncated response element value is true), the response also includes the nextToken element. The value of nextToken can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. Defaults to 100. If more results are present, the response will contain a nextToken and a `_link.next` href.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, GetConflictsResponseV1, BadRequestErrorV1]

get_content_upload_by_id_v0 (*catalog_id, upload_id, **kwargs*)

Gets detailed information about an upload which was created for a specific catalog. Includes the upload’s ingestion steps and a presigned url for downloading the file.

Parameters

- **catalog_id** (*str*) – (required) Provides a unique identifier of the catalog
- **upload_id** (*str*) – (required) Unique identifier of the upload
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV0, GetContentUploadResponseV0, BadRequestErrorV0]

get_content_upload_by_id_v1 (*catalog_id, upload_id, **kwargs*)

Get upload Gets detailed information about an upload which was created for a specific catalog. Includes the upload’s ingestion steps and a url for downloading the file.

Parameters

- **catalog_id** (*str*) – (required) Provides a unique identifier of the catalog
- **upload_id** (*str*) – (required) Unique identifier of the upload

- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, GetContentUploadResponseV1, BadRequestErrorV1]

get_import_status_v1 (*import_id*, ***kwargs*)
Get status for given importId.

Parameters

- **import_id** (*str*) – (required) The Import ID.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, ImportResponseV1]

get_interaction_model_catalog_definition_v1 (*catalog_id*, ***kwargs*)
get the catalog definition

Parameters

- **catalog_id** (*str*) – (required) Provides a unique identifier of the catalog
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, CatalogDefinitionOutputV1, BadRequestErrorV1]

get_interaction_model_catalog_update_status_v1 (*catalog_id*, *update_request_id*, ***kwargs*)

Get the status of catalog resource and its sub-resources for a given catalogId.

Parameters

- **catalog_id** (*str*) – (required) Provides a unique identifier of the catalog
- **update_request_id** (*str*) – (required) The identifier for slotType version creation process
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, CatalogStatusV1, StandardizedErrorV1, BadRequestErrorV1]

get_interaction_model_catalog_values_v1 (*catalog_id*, *version*, ***kwargs*)
Get catalog values from the given catalogId & version.

Parameters

- **catalog_id** (*str*) – (required) Provides a unique identifier of the catalog
- **version** (*str*) – (required) Version for interaction model.
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 50 results, you can add this parameter to your request. `maxResults` should not exceed the upper limit. The response might contain fewer results than `maxResults`, but it will never contain more. If there are

additional results that satisfy the search criteria, but these results were not returned, the response contains `isTruncated = true`.

- **next_token** (*str*) – When response to this API call is truncated (that is, `isTruncated` response element value is true), the response also includes the `nextToken` element. The value of `nextToken` can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, CatalogValuesV1, BadRequestErrorV1]

get_interaction_model_catalog_version_v1 (*catalog_id*, *version*, ***kwargs*)
Get catalog version data of given catalog version.

Parameters

- **catalog_id** (*str*) – (required) Provides a unique identifier of the catalog
- **version** (*str*) – (required) Version for interaction model.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, CatalogVersionDataV1, BadRequestErrorV1]

get_interaction_model_metadata_v1 (*skill_id*, *stage_v2*, *locale*, ***kwargs*)
Get the latest metadata for the interaction model resource for the given stage.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **stage_v2** (*str*) – (required) Stages of a skill including the new certified stage. * *development* - skills which are currently in development corresponds to this stage. * *certified* - skills which have completed certification and ready for publishing corresponds to this stage. * *live* - skills which are currently live corresponds to this stage.
- **locale** (*str*) – (required) The locale for the model requested e.g. en-GB, en-US, de-DE.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1]

get_interaction_model_slot_type_build_status_v1 (*slot_type_id*, *update_request_id*, ***kwargs*)
Get the status of slot type resource and its sub-resources for a given slotTypeId.

Parameters

- **slot_type_id** (*str*) – (required) The identifier for a slot type.
- **update_request_id** (*str*) – (required) The identifier for slotType version creation process

- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, SlotTypeStatusV1, BadRequestErrorV1]

get_interaction_model_slot_type_definition_v1 (*slot_type_id*, ***kwargs*)

Get the slot type definition.

Parameters

- **slot_type_id** (*str*) – (required) The identifier for a slot type.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, SlotTypeDefinitionOutputV1, BadRequestErrorV1]

get_interaction_model_slot_type_version_v1 (*slot_type_id*, *version*, ***kwargs*)

Get slot type version data of given slot type version.

Parameters

- **slot_type_id** (*str*) – (required) The identifier for a slot type.
- **version** (*str*) – (required) Version for interaction model.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, SlotTypeVersionDataV1, BadRequestErrorV1]

get_interaction_model_v1 (*skill_id*, *stage_v2*, *locale*, ***kwargs*)

Gets the *InteractionModel* for the skill in the given stage. The path params **skillId**, **stage** and **locale** are required.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **stage_v2** (*str*) – (required) Stages of a skill including the new certified stage. * *development* - skills which are currently in development corresponds to this stage. * *certified* - skills which have completed certification and ready for publishing corresponds to this stage. * *live* - skills which are currently live corresponds to this stage.
- **locale** (*str*) – (required) The locale for the model requested e.g. en-GB, en-US, de-DE.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, InteractionModelDataV1, BadRequestErrorV1]

get_interaction_model_version_v1 (*skill_id*, *stage_v2*, *locale*, *version*, ***kwargs*)

Gets the specified version *InteractionModel* of a skill for the vendor. Use *~current* as version parameter to get the current version model.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **stage_v2** (*str*) – (required) Stages of a skill including the new certified stage. * *development* - skills which are currently in development corresponds to this stage. * *certified* - skills which have completed certification and ready for publishing corresponds to this stage. * *live* - skills which are currently live corresponds to this stage.
- **locale** (*str*) – (required) The locale for the model requested e.g. en-GB, en-US, de-DE.
- **version** (*str*) – (required) Version for interaction model.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, InteractionModelDataV1, BadRequestErrorV1]

get_isp_associated_skills_v1 (*product_id*, *stage*, ***kwargs*)

Get the associated skills for the in-skill product.

Parameters

- **product_id** (*str*) – (required) The in-skill product ID.
- **stage** (*str*) – (required) Stage for skill.
- **next_token** (*str*) – When response to this API call is truncated (that is, isTruncated response element value is true), the response also includes the nextToken element. The value of nextToken can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 50 results, you can add this parameter to your request. maxResults should not exceed the upper limit. The response might contain fewer results than maxResults, but it will never contain more. If there are additional results that satisfy the search criteria, but these results were not returned, the response contains isTruncated = true.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, AssociatedSkillResponseV1]

get_isp_definition_v1 (*product_id*, *stage*, ***kwargs*)

Returns the in-skill product definition for given productId.

Parameters

- **product_id** (*str*) – (required) The in-skill product ID.
- **stage** (*str*) – (required) Stage for skill.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, BadRequestErrorV1, InSkillProductDefinitionResponseV1]

get_isp_list_for_skill_id_v1 (*skill_id*, *stage*, ***kwargs*)

Get the list of in-skill products for the skillId.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **stage** (*str*) – (required) Stage for skill.
- **next_token** (*str*) – When response to this API call is truncated (that is, isTruncated response element value is true), the response also includes the nextToken element. The value of nextToken can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 50 results, you can add this parameter to your request. maxResults should not exceed the upper limit. The response might contain fewer results than maxResults, but it will never contain more. If there are additional results that satisfy the search criteria, but these results were not returned, the response contains isTruncated = true.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV1*, *ListInSkillProductResponseV1*, *BadRequestErrorV1*]

get_isp_list_for_vendor_v1 (*vendor_id*, ***kwargs*)

Get the list of in-skill products for the vendor.

Parameters

- **vendor_id** (*str*) – (required) The vendor ID.
- **next_token** (*str*) – When response to this API call is truncated (that is, isTruncated response element value is true), the response also includes the nextToken element. The value of nextToken can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 50 results, you can add this parameter to your request. maxResults should not exceed the upper limit. The response might contain fewer results than maxResults, but it will never contain more. If there are additional results that satisfy the search criteria, but these results were not returned, the response contains isTruncated = true.
- **product_id** (*list[str]*) – The list of in-skill product IDs that you wish to get the summary for. A maximum of 50 in-skill product IDs can be specified in a single listInSkillProducts call. Please note that this parameter must not be used with ‘nextToken’ and/or ‘maxResults’ parameter.
- **stage** (*str*) – Filter in-skill products by specified stage.
- **object_type** (*str*) – Type of in-skill product to filter on.
- **reference_name** (*str*) – Filter in-skill products by reference name.
- **status** (*str*) – Status of in-skill product.

- **is_associated_with_skill** (*str*) – Filter in-skill products by whether or not they are associated to a skill.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, ListInSkillProductResponseV1, BadRequestErrorV1]

get_isp_summary_v1 (*product_id*, *stage*, ***kwargs*)

Get the summary information for an in-skill product.

Parameters

- **product_id** (*str*) – (required) The in-skill product ID.
- **stage** (*str*) – (required) Stage for skill.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, InSkillProductSummaryResponseV1]

get_list_of_testers_v1 (*skill_id*, ***kwargs*)

List testers. List all testers in a beta test for the given Alexa skill.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **next_token** (*str*) – When response to this API call is truncated (that is, isTruncated response element value is true), the response also includes the nextToken element. The value of nextToken can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 50 results, you can add this parameter to your request. maxResults should not exceed the upper limit. The response might contain fewer results than maxResults, but it will never contain more. If there are additional results that satisfy the search criteria, but these results were not returned, the response contains isTruncated = true.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, ListTestersResponseV1, BadRequestErrorV1]

get_nlu_evaluation_v1 (*skill_id*, *evaluation_id*, ***kwargs*)

Get top level information and status of a nlu evaluation. API which requests top level information about the evaluation like the current state of the job, status of the evaluation (if complete). Also returns data used to start the job, like the number of test cases, stage, locale, and start time. This should be considered the ‘cheap’ operation while getResultForNLUEvaluations is ‘expensive’.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **evaluation_id** (*str*) – (required) Identifier of the evaluation.

- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV1*, *BadRequestErrorV1*, *GetNLUEvaluationResponseV1*]

get_properties_for_nlu_annotation_sets_v1 (*skill_id*, *annotation_id*, ***kwargs*)

Get the properties of an NLU annotation set Return the properties for an NLU annotation set.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **annotation_id** (*str*) – (required) Identifier of the NLU annotation set.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV1*, *GetNLUAnnotationSetPropertiesResponseV1*, *BadRequestErrorV1*]

get_result_for_nlu_evaluations_v1 (*skill_id*, *evaluation_id*, ***kwargs*)

Get test case results for a completed Evaluation. Paginated API which returns the test case results of an evaluation. This should be considered the ‘expensive’ operation while getNluEvaluation is ‘cheap’.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **evaluation_id** (*str*) – (required) Identifier of the evaluation.
- **sort_field** (*str*) –
- **test_case_status** (*str*) – only returns test cases with this status
- **actual_intent_name** (*str*) – only returns test cases with intents which resolve to this intent
- **expected_intent_name** (*str*) – only returns test cases with intents which are expected to be this intent
- **next_token** (*str*) – When response to this API call is truncated (that is, isTruncated response element value is true), the response also includes the nextToken element. The value of nextToken can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. Defaults to 1000. If more results are present, the response will contain a nextToken and a `_link.next` href.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV1*, *GetNLUEvaluationResultsResponseV1*, *BadRequestErrorV1*]

get_rollback_for_skill_v1 (*skill_id*, *rollback_request_id*, ***kwargs*)

Get the rollback status of a skill given an associated rollbackRequestId. Use ~latest in place of rollbackRequestId to get the latest rollback status.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **rollback_request_id** (*str*) – (required) Defines the identifier for a rollback request. If set to `~latest`, request returns the status of the latest rollback request.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to `False`.

Return type Union[*ApiResponse*, StandardizedErrorV1, RollbackRequestStatusV1, BadRequestErrorV1]

get_skill_credentials_v1 (*skill_id*, ***kwargs*)

Get the client credentials for the skill.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to `False`.

Return type Union[*ApiResponse*, StandardizedErrorV1, SkillCredentialsV1]

get_skill_enablement_status_v1 (*skill_id*, *stage*, ***kwargs*)

Checks whether an enablement exist for given skillId/stage and customerId (retrieved from Auth token)

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **stage** (*str*) – (required) Stage for skill.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to `False`.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1]

get_skill_manifest_v1 (*skill_id*, *stage_v2*, ***kwargs*)

Returns the skill manifest for given skillId and stage.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **stage_v2** (*str*) – (required) Stages of a skill including the new certified stage. * *development* - skills which are currently in development corresponds to this stage. * *certified* - skills which have completed certification and ready for publishing corresponds to this stage. * *live* - skills which are currently live corresponds to this stage.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to `False`.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1, SkillManifestEnvelopeV1]

get_skill_metrics_v1 (*skill_id*, *start_time*, *end_time*, *period*, *metric*, *stage*, *skill_type*, ***kwargs*)

Get analytic metrics report of skill usage.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **start_time** (*datetime*) – (required) The start time of query.
- **end_time** (*datetime*) – (required) The end time of query (The maximum time duration is 1 week)
- **period** (*str*) – (required) The aggregation period to use when retrieving the metric, follows ISO_8601#Durations format.
- **metric** (*str*) – (required) A distinct set of logic which predictably returns a set of data.
- **stage** (*str*) – (required) The stage of the skill (live, development).
- **skill_type** (*str*) – (required) The type of the skill (custom, smartHome and flash-Briefing).
- **intent** (*str*) – The intent of the skill.
- **locale** (*str*) – The locale for the skill. e.g. en-GB, en-US, de-DE and etc.
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 50 results, you can add this parameter to your request. `maxResults` should not exceed the upper limit. The response might contain fewer results than `maxResults`, but it will never contain more. If there are additional results that satisfy the search criteria, but these results were not returned, the response contains `isTruncated = true`.
- **next_token** (*str*) – When response to this API call is truncated (that is, `isTruncated` response element value is true), the response also includes the `nextToken` element. The value of `nextToken` can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1, GetMetric-DataResponseV1]

get_skill_simulation_v1 (*skill_id*, *simulation_id*, ***kwargs*)

Get the result of a previously executed simulation. This API gets the result of a previously executed simulation. A successful response will contain the status of the executed simulation. If the simulation successfully completed, the response will also contain information related to skill invocation. In cases where requests to this API results in an error, the response will contain an error code and a description of the problem. In cases where the simulation failed, the response will contain a status attribute indicating that a failure occurred and details about what was sent to the skill endpoint. Note that simulation results are stored for 10 minutes. A request for an expired simulation result will return a 404 HTTP status code.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **simulation_id** (*str*) – (required) Id of the simulation.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, BadRequestErrorV1, SimulationsApiResponseV1]

get_skill_simulation_v2 (*skill_id*, *stage*, *simulation_id*, ***kwargs*)

Get the result of a previously executed simulation. This API gets the result of a previously executed simulation. A successful response will contain the status of the executed simulation. If the simulation successfully completed, the response will also contain information related to skill invocation. In cases where requests to this API results in an error, the response will contain an error code and a description of the problem. In cases where the simulation failed, the response will contain a status attribute indicating that a failure occurred and details about what was sent to the skill endpoint. Note that simulation results are stored for 10 minutes. A request for an expired simulation result will return a 404 HTTP status code.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **stage** (*str*) – (required) Stage for skill.
- **simulation_id** (*str*) – (required) Id of the simulation.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV2*, *BadRequestErrorV2*, *SimulationsApiResponseV2*]

get_skill_status_v1 (*skill_id*, ***kwargs*)

Get the status of skill resource and its sub-resources for a given skillId.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **resource** (*str*) – Resource name for which status information is desired. It is an optional, filtering parameter and can be used more than once, to retrieve status for all the desired (sub)resources only, in single API call. If this parameter is not specified, status for all the resources/sub-resources will be returned.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *StandardizedErrorV1*, *SkillStatusV1*, *BadRequestErrorV1*]

get_skill_validations_v1 (*skill_id*, *validation_id*, *stage*, ***kwargs*)

Get the result of a previously executed validation. This API gets the result of a previously executed validation. A successful response will contain the status of the executed validation. If the validation successfully completed, the response will also contain information related to executed validations. In cases where requests to this API results in an error, the response will contain a description of the problem. In cases where the validation failed, the response will contain a status attribute indicating that a failure occurred. Note that validation results are stored for 60 minutes. A request for an expired validation result will return a 404 HTTP status code.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **validation_id** (*str*) – (required) Id of the validation. Reserved word identifier of mostRecent can be used to get the most recent validation for the skill and stage. Note that the behavior of the API in this case would be the same as when the actual validation id of the most recent validation is used in the request.
- **stage** (*str*) – (required) Stage for skill.
- **accept_language** (*str*) – User's locale/language in context.

- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ValidationsApiResponseV1*, *ErrorV1*, *BadRequestErrorV1*]

get_ssl_certificates_v1 (*skill_id*, ***kwargs*)

Returns the ssl certificate sets currently associated with this skill. Sets consist of one ssl certificate blob associated with a region as well as the default certificate for the skill.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *StandardizedErrorV1*, *SSLCertificatePayloadV1*]

get_status_of_export_request_v1 (*export_id*, ***kwargs*)

Get status for given exportId

Parameters

- **export_id** (*str*) – (required) The Export ID.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ExportResponseV1*, *StandardizedErrorV1*]

get_subscriber_for_development_events_v0 (*subscriber_id*, ***kwargs*)

Returns information about specified subscriber.

Parameters

- **subscriber_id** (*str*) – (required) Unique identifier of the subscriber.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV0*, *BadRequestErrorV0*, *SubscriberInfoV0*]

get_subscription_for_development_events_v0 (*subscription_id*, ***kwargs*)

Returns information about a particular subscription. Both, the vendor who created the subscriber and the vendor who publishes the event can retrieve this resource with appropriate authorization.

Parameters

- **subscription_id** (*str*) – (required) Unique identifier of the subscription.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *SubscriptionInfoV0*, *ErrorV0*, *BadRequestErrorV0*]

get_utterance_data_v1 (*skill_id*, ***kwargs*)

The Intent Request History API provides customers with the aggregated and anonymized transcription of user speech data and intent request details for their skills.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **next_token** (*str*) – When response to this API call is truncated (that is, `isTruncated` response element value is true), the response also includes the `nextToken` element. The value of `nextToken` can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 50 results, you can add this parameter to your request. `maxResults` should not exceed the upper limit. The response might contain fewer results than `maxResults`, but it will never contain more. If there are additional results that satisfy the search criteria, but these results were not returned, the response contains `isTruncated = true`.
- **sort_direction** (*str*) – Sets the sorting direction of the result items. When set to ‘asc’ these items are returned in ascending order of `sortField` value and when set to ‘desc’ these items are returned in descending order of `sortField` value.
- **sort_field** (*str*) – Sets the field on which the sorting would be applied.
- **stage** (*list[ask_smapi_model.v1.stage_type.StageType]*) – A filter used to retrieve items where the stage is equal to the given value.
- **locale** (*list[ask_smapi_model.v1.skill.history.locale_in_query.LocaleInQuery]*) –
- **dialog_act_name** (*list[ask_smapi_model.v1.skill.history.dialog_act_name.DialogActName]*) – A filter used to retrieve items where the `dialogAct` name is equal to the given value.
 - * *Dialog.ElicitSlot*: Alexa asked the user for the value of a specific slot. (<https://developer.amazon.com/docs/custom-skills/dialog-interface-reference.html#elicitslot>)
 - * *Dialog.ConfirmSlot*: Alexa confirmed the value of a specific slot before continuing with the dialog. (<https://developer.amazon.com/docs/custom-skills/dialog-interface-reference.html#confirmslot>)
 - * *Dialog.ConfirmIntent*: Alexa confirmed the all the information the user has provided for the intent before the skill took action. (<https://developer.amazon.com/docs/custom-skills/dialog-interface-reference.html#confirmintent>)
- **intent_confidence_bin** (*list[ask_smapi_model.v1.skill.history.intent_confidence_bin.IntentConfidenceBin]*) –
- **intent_name** (*list[str]*) – A filter used to retrieve items where the intent name is equal to the given value.
- **intent_slots_name** (*list[str]*) – A filter used to retrieve items where the one of the slot names is equal to the given value.
- **interaction_type** (*list[ask_smapi_model.v1.skill.history.interaction_type.InteractionType]*) –
- **publication_status** (*list[ask_smapi_model.v1.skill.history.publication_status.PublicationStatus]*) –
- **utterance_text** (*list[str]*) – A filter used to retrieve items where the utterance text contains the given phrase. Each filter value can be at-least 1 character and at-most 100 characters long.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, IntentRequestsV1, StandardizedErrorV1, BadRequestErrorV1]

get_vendor_list_v1 (***kwargs*)

Get the list of Vendor information.

Parameters **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, VendorsV1, ErrorV1]

import_skill_package_v1 (*update_skill_with_package_request, skill_id, **kwargs*)

Creates a new import for a skill with given skillId.

Parameters

- **update_skill_with_package_request** (*ask_smapi_model.v1.skill.update_skill_with_package_request.UpdateSkillWithPackageRequest*) – (required) Defines the request body for updatePackage API.
- **skill_id** (*str*) – (required) The skill ID.
- **if_match** (*str*) – Request header that specified an entity tag. The server will update the resource only if the eTag matches with the resource’s current eTag.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1]

invoke_skill_end_point_v2 (*skill_id, stage, invocations_api_request, **kwargs*)

Invokes the Lambda or third party HTTPS endpoint for the given skill against a given stage. This is a synchronous API that invokes the Lambda or third party HTTPS endpoint for a given skill. A successful response will contain information related to what endpoint was called, payload sent to and received from the endpoint. In cases where requests to this API results in an error, the response will contain an error code and a description of the problem. In cases where invoking the skill endpoint specifically fails, the response will contain a status attribute indicating that a failure occurred and details about what was sent to the endpoint. The skill must belong to and be enabled by the user of this API. Also, note that calls to the skill endpoint will timeout after 10 seconds. This API is currently designed in a way that allows extension to an asynchronous API if a significantly bigger timeout is required.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **stage** (*str*) – (required) Stage for skill.
- **invocations_api_request** (*ask_smapi_model.v2.skill.invocations.invocations_api_request.InvocationsApiRequest*) – (required) Payload sent to the skill invocation API.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV2, BadRequestErrorV2, InvocationsApiResponseV2]

invoke_skill_v1 (*skill_id, invoke_skill_request, **kwargs*)

This is a synchronous API that invokes the Lambda or third party HTTPS endpoint for a given skill. A successful response will contain information related to what endpoint was called, payload sent to and

received from the endpoint. In cases where requests to this API results in an error, the response will contain an error code and a description of the problem. In cases where invoking the skill endpoint specifically fails, the response will contain a status attribute indicating that a failure occurred and details about what was sent to the endpoint. The skill must belong to and be enabled by the user of this API. Also, note that calls to the skill endpoint will timeout after 10 seconds.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **invoke_skill_request** (*ask_smapl_model.v1.skill.invocations.invoke_skill_request.InvokeSkillRequest*) – (required) Payload sent to the skill invocation API.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *InvokeSkillResponseV1*, *StandardizedErrorV1*, *BadRequestErrorV1*]

list_asr_annotation_sets_v1 (*skill_id*, ***kwargs*)

List ASR annotation sets metadata for a given skill. API which requests all the ASR annotation sets for a skill. Returns the annotation set id and properties for each ASR annotation set. Supports paging of results.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **next_token** (*str*) – When response to this API call is truncated (that is, isTruncated response element value is true), the response also includes the nextToken element. The value of nextToken can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. Defaults to 1000. If more results are present, the response will contain a pagination-Context.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV1*, *ListASRAnnotationSetsResponseV1*, *BadRequestErrorV1*]

list_asr_evaluations_results_v1 (*skill_id*, *evaluation_id*, ***kwargs*)

List results for a completed Evaluation. Paginated API which returns the test case results of an evaluation. This should be considered the “expensive” operation while GetAsrEvaluationsStatus is “cheap”.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **evaluation_id** (*str*) – (required) Identifier of the evaluation.
- **next_token** (*str*) – When response to this API call is truncated (that is, isTruncated response element value is true), the response also includes the nextToken element. The value of nextToken can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.

- **max_results** (*float*) – Sets the maximum number of results returned in the response body. Defaults to 1000. If more results are present, the response will contain a nextToken.
- **status** (*str*) – query parameter used to filter evaluation result status. * *PASSED* - filter evaluation result status of *PASSED* * *FAILED* - filter evaluation result status of *FAILED*
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV1*, *GetAsrEvaluationsResultsResponseV1*, *BadRequestErrorV1*]

list_asr_evaluations_v1 (*skill_id*, ***kwargs*)

List asr evaluations run for a skill. API that allows developers to get historical ASR evaluations they run before.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **next_token** (*str*) – When response to this API call is truncated (that is, isTruncated response element value is true), the response also includes the nextToken element. The value of nextToken can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **locale** (*str*) – locale in bcp 47 format. Used to filter results with the specified locale. If omitted, the response would include all evaluations regardless of what locale was used in the evaluation
- **stage** (*str*) – Query parameter used to filter evaluations with specified skill stage. * *development* - skill in *development* stage * *live* - skill in *live* stage
- **annotation_set_id** (*str*) – filter to evaluations started using this annotationSetId
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. Defaults to 1000. If more results are present, the response will contain a nextToken.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV1*, *ListAsrEvaluationsResponseV1*, *BadRequestErrorV1*]

list_catalogs_for_skill_v0 (*skill_id*, ***kwargs*)

Lists all the catalogs associated with a skill.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **next_token** (*str*) – When response to this API call is truncated (that is, isTruncated response element value is true), the response also includes the nextToken element. The value of nextToken can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 50 results, you can add this parameter to your request. maxResults should not exceed the upper limit. The response might contain fewer results than maxResults, but it will never contain more. If there are

additional results that satisfy the search criteria, but these results were not returned, the response contains `isTruncated = true`.

- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to `False`.

Return type Union[*ApiResponse*, *ErrorV0*, *ListCatalogsResponseV0*, *BadRequestErrorV0*]

list_catalogs_for_vendor_v0 (*vendor_id*, ***kwargs*)

Lists catalogs associated with a vendor.

Parameters

- **vendor_id** (*str*) – (required) The vendor ID.
- **next_token** (*str*) – When response to this API call is truncated (that is, `isTruncated` response element value is true), the response also includes the `nextToken` element. The value of `nextToken` can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 50 results, you can add this parameter to your request. `maxResults` should not exceed the upper limit. The response might contain fewer results than `maxResults`, but it will never contain more. If there are additional results that satisfy the search criteria, but these results were not returned, the response contains `isTruncated = true`.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to `False`.

Return type Union[*ApiResponse*, *ErrorV0*, *ListCatalogsResponseV0*, *BadRequestErrorV0*]

list_interaction_model_catalog_versions_v1 (*catalog_id*, ***kwargs*)

List all the historical versions of the given catalogId.

Parameters

- **catalog_id** (*str*) – (required) Provides a unique identifier of the catalog
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 50 results, you can add this parameter to your request. `maxResults` should not exceed the upper limit. The response might contain fewer results than `maxResults`, but it will never contain more. If there are additional results that satisfy the search criteria, but these results were not returned, the response contains `isTruncated = true`.
- **next_token** (*str*) – When response to this API call is truncated (that is, `isTruncated` response element value is true), the response also includes the `nextToken` element. The value of `nextToken` can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **sort_direction** (*str*) – Sets the sorting direction of the result items. When set to `'asc'` these items are returned in ascending order of `sortField` value and when set to `'desc'` these items are returned in descending order of `sortField` value.
- **sort_field** (*str*) – Sets the field on which the sorting would be applied.

- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, ListCatalogEntityVersionsResponseV1, BadRequestErrorV1]

list_interaction_model_catalogs_v1 (*vendor_id*, ***kwargs*)

List all catalogs for the vendor.

Parameters

- **vendor_id** (*str*) – (required) The vendor ID.
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 50 results, you can add this parameter to your request. `maxResults` should not exceed the upper limit. The response might contain fewer results than `maxResults`, but it will never contain more. If there are additional results that satisfy the search criteria, but these results were not returned, the response contains `isTruncated = true`.
- **next_token** (*str*) – When response to this API call is truncated (that is, `isTruncated` response element value is true), the response also includes the `nextToken` element. The value of `nextToken` can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **sort_direction** (*str*) – Sets the sorting direction of the result items. When set to ‘asc’ these items are returned in ascending order of `sortField` value and when set to ‘desc’ these items are returned in descending order of `sortField` value.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ListCatalogResponseV1, StandardizedErrorV1, BadRequestErrorV1]

list_interaction_model_slot_type_versions_v1 (*slot_type_id*, ***kwargs*)

List all slot type versions for the slot type id.

Parameters

- **slot_type_id** (*str*) – (required) The identifier for a slot type.
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 50 results, you can add this parameter to your request. `maxResults` should not exceed the upper limit. The response might contain fewer results than `maxResults`, but it will never contain more. If there are additional results that satisfy the search criteria, but these results were not returned, the response contains `isTruncated = true`.
- **next_token** (*str*) – When response to this API call is truncated (that is, `isTruncated` response element value is true), the response also includes the `nextToken` element. The value of `nextToken` can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **sort_direction** (*str*) – Sets the sorting direction of the result items. When set to ‘asc’ these items are returned in ascending order of `sortField` value and when set to ‘desc’ these items are returned in descending order of `sortField` value.

- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ListSlotTypeVersionResponseV1, StandardizedErrorV1, BadRequestErrorV1]

list_interaction_model_slot_types_v1 (*vendor_id*, ***kwargs*)

List all slot types for the vendor.

Parameters

- **vendor_id** (*str*) – (required) The vendor ID.
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 50 results, you can add this parameter to your request. `maxResults` should not exceed the upper limit. The response might contain fewer results than `maxResults`, but it will never contain more. If there are additional results that satisfy the search criteria, but these results were not returned, the response contains `isTruncated = true`.
- **next_token** (*str*) – When response to this API call is truncated (that is, `isTruncated` response element value is true), the response also includes the `nextToken` element. The value of `nextToken` can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **sort_direction** (*str*) – Sets the sorting direction of the result items. When set to 'asc' these items are returned in ascending order of `sortField` value and when set to 'desc' these items are returned in descending order of `sortField` value.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, ListSlotTypeResponseV1, BadRequestErrorV1]

list_interaction_model_versions_v1 (*skill_id*, *stage_v2*, *locale*, ***kwargs*)

Get the list of `interactionModel` versions of a skill for the vendor.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **stage_v2** (*str*) – (required) Stages of a skill including the new certified stage. ** development* - skills which are currently in development corresponds to this stage. ** certified* - skills which have completed certification and ready for publishing corresponds to this stage. ** live* - skills which are currently live corresponds to this stage.
- **locale** (*str*) – (required) The locale for the model requested e.g. en-GB, en-US, de-DE.
- **next_token** (*str*) – When response to this API call is truncated (that is, `isTruncated` response element value is true), the response also includes the `nextToken` element. The value of `nextToken` can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 50 results, you can add this parameter to your request. `maxResults` should not exceed the upper limit. The response

might contain fewer results than `maxResults`, but it will never contain more. If there are additional results that satisfy the search criteria, but these results were not returned, the response contains `isTruncated = true`.

- **sort_direction** (*str*) – Sets the sorting direction of the result items. When set to ‘asc’ these items are returned in ascending order of `sortField` value and when set to ‘desc’ these items are returned in descending order of `sortField` value.
- **sort_field** (*str*) – Sets the field on which the sorting would be applied.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to `False`.

Return type Union[*ApiResponse*, ListResponseV1, StandardizedErrorV1, BadRequestErrorV1]

list_nlu_annotation_sets_v1 (*skill_id*, ***kwargs*)

List NLU annotation sets for a given skill. API which requests all the NLU annotation sets for a skill. Returns the `annotationId` and properties for each NLU annotation set. Developers can filter the results using `locale`. Supports paging of results.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **locale** (*str*) – filter to NLU annotation set created using this locale
- **next_token** (*str*) – When response to this API call is truncated (that is, `isTruncated` response element value is true), the response also includes the `nextToken` element. The value of `nextToken` can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. Defaults to 10. If more results are present, the response will contain a `nextToken` and a `_link.next href`.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to `False`.

Return type Union[*ApiResponse*, ErrorV1, ListNLUAnnotationSetsResponseV1, BadRequestErrorV1]

list_nlu_evaluations_v1 (*skill_id*, ***kwargs*)

List nlu evaluations run for a skill. API which requests recently run nlu evaluations started by a vendor for a skill. Returns the `evaluation id` and some of the parameters used to start the evaluation. Developers can filter the results using `locale` and `stage`. Supports paging of results.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **locale** (*str*) – filter to evaluations started using this locale
- **stage** (*str*) – filter to evaluations started using this stage
- **annotation_id** (*str*) – filter to evaluations started using this `annotationId`
- **next_token** (*str*) – When response to this API call is truncated (that is, `isTruncated` response element value is true), the response also includes the `nextToken` element. The value of `nextToken` can be used in the next request as the continuation-token to list the

next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.

- **max_results** (*float*) – Sets the maximum number of results returned in the response body. Defaults to 10. If more results are present, the response will contain a `nextToken` and a `_link.next href`.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ListNLUEvaluationsResponseV1, ErrorV1, BadRequestErrorV1]

list_private_distribution_accounts_v1 (*skill_id, stage, **kwargs*)

List private distribution accounts.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **stage** (*str*) – (required) Stage for skill.
- **next_token** (*str*) – When response to this API call is truncated (that is, `isTruncated` response element value is true), the response also includes the `nextToken` element. The value of `nextToken` can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 50 results, you can add this parameter to your request. `maxResults` should not exceed the upper limit. The response might contain fewer results than `maxResults`, but it will never contain more. If there are additional results that satisfy the search criteria, but these results were not returned, the response contains `isTruncated = true`.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, ListPrivateDistributionAccountsResponseV1, BadRequestErrorV1]

list_skills_for_vendor_v1 (*vendor_id, **kwargs*)

Get the list of skills for the vendor.

Parameters

- **vendor_id** (*str*) – (required) The vendor ID.
- **next_token** (*str*) – When response to this API call is truncated (that is, `isTruncated` response element value is true), the response also includes the `nextToken` element. The value of `nextToken` can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 50 results, you can add this parameter to your request. `maxResults` should not exceed the upper limit. The response might contain fewer results than `maxResults`, but it will never contain more. If there are additional results that satisfy the search criteria, but these results were not returned, the response contains `isTruncated = true`.

- **skill_id** (*list[str]*) – The list of skillIds that you wish to get the summary for. A maximum of 10 skillIds can be specified to get the skill summary in single listSkills call. Please note that this parameter must not be used with ‘nextToken’ or/and ‘maxResults’ parameter.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, ListSkillResponseV1, BadRequestErrorV1]

list_subscribers_for_development_events_v0 (*vendor_id*, ***kwargs*)

Lists the subscribers for a particular vendor.

Parameters

- **vendor_id** (*str*) – (required) The vendor ID.
- **next_token** (*str*) – When response to this API call is truncated (that is, isTruncated response element value is true), the response also includes the nextToken element. The value of nextToken can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 50 results, you can add this parameter to your request. maxResults should not exceed the upper limit. The response might contain fewer results than maxResults, but it will never contain more. If there are additional results that satisfy the search criteria, but these results were not returned, the response contains isTruncated = true.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV0, BadRequestErrorV0, ListSubscribersResponseV0]

list_subscriptions_for_development_events_v0 (*vendor_id*, ***kwargs*)

Lists all the subscriptions for a vendor/subscriber depending on the query parameter.

Parameters

- **vendor_id** (*str*) – (required) The vendor ID.
- **next_token** (*str*) – When response to this API call is truncated (that is, isTruncated response element value is true), the response also includes the nextToken element. The value of nextToken can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 50 results, you can add this parameter to your request. maxResults should not exceed the upper limit. The response might contain fewer results than maxResults, but it will never contain more. If there are additional results that satisfy the search criteria, but these results were not returned, the response contains isTruncated = true.
- **subscriber_id** (*str*) – Unique identifier of the subscriber. If this query parameter is provided, the list would be filtered by the owning subscriberId.

- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ListSubscriptionsResponseV0, ErrorV0, BadRequestErrorV0]

list_uploads_for_catalog_v0 (*catalog_id*, ***kwargs*)

Lists all the uploads for a particular catalog.

Parameters

- **catalog_id** (*str*) – (required) Provides a unique identifier of the catalog
- **next_token** (*str*) – When response to this API call is truncated (that is, isTruncated response element value is true), the response also includes the nextToken element. The value of nextToken can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 50 results, you can add this parameter to your request. maxResults should not exceed the upper limit. The response might contain fewer results than maxResults, but it will never contain more. If there are additional results that satisfy the search criteria, but these results were not returned, the response contains isTruncated = true.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ListUploadsResponseV0, ErrorV0, BadRequestErrorV0]

list_versions_for_skill_v1 (*skill_id*, ***kwargs*)

Retrieve a list of all skill versions associated with this skill id

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **next_token** (*str*) – When response to this API call is truncated (that is, isTruncated response element value is true), the response also includes the nextToken element. The value of nextToken can be used in the next request as the continuation-token to list the next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.
- **max_results** (*float*) – Sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 50 results, you can add this parameter to your request. maxResults should not exceed the upper limit. The response might contain fewer results than maxResults, but it will never contain more. If there are additional results that satisfy the search criteria, but these results were not returned, the response contains isTruncated = true.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, ListSkillVersionsResponseV1, BadRequestErrorV1]

profile_nlu_v1 (*profile_nlu_request*, *skill_id*, *stage*, *locale*, ***kwargs*)

Profile a test utterance. This is a synchronous API that profiles an utterance against interaction model.

Parameters

- **profile_nlu_request** (`ask_smapi_model.v1.skill.evaluations.profile_nlu_request.ProfileNluRequest`) – (required) Payload sent to the profile nlu API.
- **skill_id** (*str*) – (required) The skill ID.
- **stage** (*str*) – (required) Stage for skill.
- **locale** (*str*) – (required) The locale for the model requested e.g. en-GB, en-US, de-DE.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV1*, *ProfileNluResponseV1*, *BadRequestErrorV1*]

query_development_audit_logs_v1 (*get_audit_logs_request*, ***kwargs*)

The SMAPI Audit Logs API provides customers with an audit history of all SMAPI calls made by a developer or developers with permissions on that account.

Parameters

- **get_audit_logs_request** (`ask_smapi_model.v1.audit_logs.audit_logs_request.AuditLogsRequest`) – (required) Request object encompassing vendorId, optional request filters and optional pagination context.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV1*, *AuditLogsResponseV1*, *BadRequestErrorV1*]

remove_testers_from_beta_test_v1 (*skill_id*, *testers_request*, ***kwargs*)

Remove testers from an existing beta test. Remove testers from a beta test for the given Alexa skill. System will send access end email to each tester and remove entitlement for them.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **testers_request** (`ask_smapi_model.v1.skill.beta_test.testers.testers_list.TestersList`) – (required) JSON object containing the email address of beta testers.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV1*, *BadRequestErrorV1*]

request_feedback_from_testers_v1 (*skill_id*, *testers_request*, ***kwargs*)

Request feedback from testers. Request feedback from the testers in a beta test for the given Alexa skill. System will send notification emails to testers to request feedback.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **testers_request** (`ask_smapi_model.v1.skill.beta_test.testers.testers_list.TestersList`) – (required) JSON object containing the email address of beta testers.

- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, BadRequestErrorV1]

reset_entitlement_for_product_v1 (*product_id, stage, **kwargs*)

Resets the entitlement(s) of the Product for the current user.

Parameters

- **product_id** (*str*) – (required) The in-skill product ID.
- **stage** (*str*) – (required) Stage for skill.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, BadRequestErrorV1]

rollback_skill_v1 (*skill_id, create_rollback_request, **kwargs*)

Submit a target skill version to rollback to. Only one rollback or publish operation can be outstanding for a given skillId.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **create_rollback_request** (*ask_smapi_model.v1.skill.create_rollback_request.CreateRollbackRequest*) – (required) defines the request body to create a rollback request
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, CreateRollbackResponseV1, BadRequestErrorV1]

send_reminder_to_testers_v1 (*skill_id, testers_request, **kwargs*)

Send reminder to testers in a beta test. Send reminder to the testers in a beta test for the given Alexa skill. System will send invitation email to each tester and add entitlement on the acceptance.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **testers_request** (*ask_smapi_model.v1.skill.beta_test.testers.testers_list.TestersList*) – (required) JSON object containing the email address of beta testers.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, BadRequestErrorV1]

set_annotations_for_asr_annotation_set_v1 (*skill_id, annotation_set_id, update_asr_annotation_set_contents_request, **kwargs*)

Update the annotations in the annotation set API that updates the annotations in the annotation set

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **annotation_set_id** (*str*) – (required) Identifier of the ASR annotation set.
- **update_asr_annotation_set_contents_request** (*ask_smapi_model.v1.skill.asr.annotation_sets.update_asr_annotation_set_contents_payload.UpdateAsrAnnotationSetContentsPayload*) – (required) Payload containing annotation set contents. Two formats are accepted here: - *application/json*: Annotation set payload in JSON format. - *text/csv*: Annotation set payload in CSV format. Note that for CSV format, the first row should describe the column attributes. Columns should be delimited by comma. The subsequent rows should describe annotation data and each annotation attributes has to follow the strict ordering defined in the first row. Each annotation fields should be delimited by comma.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV1*, *BadRequestErrorV1*]

set_asr_annotation_set_v1 (*skill_id*, *annotation_set_id*, *update_asr_annotation_set_properties_request_v1*, ***kwargs*)
 update the ASR annotation set properties. API which updates the ASR annotation set properties. Currently, the only data can be updated is annotation set name.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **annotation_set_id** (*str*) – (required) Identifier of the ASR annotation set.
- **update_asr_annotation_set_properties_request_v1** (*ask_smapi_model.v1.skill.asr.annotation_sets.update_asr_annotation_set_properties_request_object.UpdateAsrAnnotationSetPropertiesRequestObject*) – (required) Payload sent to the update ASR annotation set properties API.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV1*, *BadRequestErrorV1*]

set_interaction_model_v1 (*skill_id*, *stage_v2*, *locale*, *interaction_model*, ***kwargs*)
 Creates an *InteractionModel* for the skill.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **stage_v2** (*str*) – (required) Stages of a skill including the new certified stage. * *development* - skills which are currently in development corresponds to this stage. * *certified* - skills which have completed certification and ready for publishing corresponds to this stage. * *live* - skills which are currently live corresponds to this stage.
- **locale** (*str*) – (required) The locale for the model requested e.g. en-GB, en-US, de-DE.
- **interaction_model** (*ask_smapi_model.v1.skill.interaction_model.interaction_model_data.InteractionModelData*) – (required)

- **if_match** (*str*) – Request header that specified an entity tag. The server will update the resource only if the eTag matches with the resource’s current eTag.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1]

set_private_distribution_account_id_v1 (*skill_id, stage, id, **kwargs*)

Add an id to the private distribution accounts.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **stage** (*str*) – (required) Stage for skill.
- **id** (*str*) – (required) ARN that a skill can be privately distributed to.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1]

set_skill_enablement_v1 (*skill_id, stage, **kwargs*)

Creates/Updates the enablement for given skillId/stage and customerId (retrieved from Auth token)

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **stage** (*str*) – (required) Stage for skill.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1]

set_ssl_certificates_v1 (*skill_id, ssl_certificate_payload, **kwargs*)

Updates the ssl certificates associated with this skill.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **ssl_certificate_payload** (*ask_smapi_model.v1.skill.ssl_certificate_payload.SSLCertificatePayload*) – (required) Defines the input/output of the ssl certificates api for a skill.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1]

set_subscriber_for_development_events_v0 (*subscriber_id, update_subscriber_request, **kwargs*)

Updates the properties of a subscriber.

Parameters

- **subscriber_id** (*str*) – (required) Unique identifier of the subscriber.

- **update_subscriber_request** (*ask_smapi_model.v0.development_events.subscriber.update_subscriber_request.UpdateSubscriberRequest*) – (required) Defines the request body for updateSubscriber API.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV0*, *BadRequestErrorV0*]

set_subscription_for_development_events_v0 (*subscription_id*, ***kwargs*)

Updates the mutable properties of a subscription. This needs to be authorized by the client/vendor who created the subscriber and the vendor who publishes the event. The subscriberId cannot be updated.

Parameters

- **subscription_id** (*str*) – (required) Unique identifier of the subscription.
- **update_subscription_request** (*ask_smapi_model.v0.development_events.subscription.update_subscription_request.UpdateSubscriptionRequest*) – Request body for updateSubscription API.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV0*, *BadRequestErrorV0*]

simulate_skill_v1 (*skill_id*, *simulations_api_request*, ***kwargs*)

Simulate executing a skill with the given id. This is an asynchronous API that simulates a skill execution in the Alexa eco-system given an utterance text of what a customer would say to Alexa. A successful response will contain a header with the location of the simulation resource. In cases where requests to this API results in an error, the response will contain an error code and a description of the problem. The skill being simulated must be in development stage, and it must also belong to and be enabled by the user of this API. Concurrent requests per user is currently not supported.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **simulations_api_request** (*ask_smapi_model.v1.skill.simulations.simulations_api_request.SimulationsApiRequest*) – (required) Payload sent to the skill simulation API.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV1*, *BadRequestErrorV1*, *SimulationsApiResponseV1*]

simulate_skill_v2 (*skill_id*, *stage*, *simulations_api_request*, ***kwargs*)

Simulate executing a skill with the given id against a given stage. This is an asynchronous API that simulates a skill execution in the Alexa eco-system given an utterance text of what a customer would say to Alexa. A successful response will contain a header with the location of the simulation resource. In cases where requests to this API results in an error, the response will contain an error code and a description of the problem. The skill being simulated must belong to and be enabled by the user of this API. Concurrent requests per user is currently not supported.

Parameters

- **skill_id** (*str*) – (required) The skill ID.

- **stage** (*str*) – (required) Stage for skill.
- **simulations_api_request** (*ask_smapi_model.v2.skill.simulations.simulations_api_request.SimulationsApiResponse*) – (required) Payload sent to the skill simulation API.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV2, BadRequestErrorV2, SimulationsApiResponseV2]

start_beta_test_v1 (*skill_id*, ***kwargs*)

Start beta test Start a beta test for a given Alexa skill. System will send invitation emails to each tester in the test, and add entitlement on the acceptance.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, BadRequestErrorV1]

submit_skill_for_certification_v1 (*skill_id*, ***kwargs*)

Submit the skill for certification.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **submit_skill_for_certification_request** (*ask_smapi_model.v1.skill.submit_skill_for_certification_request.SubmitSkillForCertificationRequest*) – Defines the request body for submitSkillForCertification API.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1]

submit_skill_validation_v1 (*validations_api_request*, *skill_id*, *stage*, ***kwargs*)

Validate a skill. This is an asynchronous API which allows a skill developer to execute various validations against their skill.

Parameters

- **validations_api_request** (*ask_smapi_model.v1.skill.validations.validations_api_request.ValidationsApiResponse*) – (required) Payload sent to the skill validation API.
- **skill_id** (*str*) – (required) The skill ID.
- **stage** (*str*) – (required) Stage for skill.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ValidationsApiResponseV1, ErrorV1, BadRequestErrorV1]

update_account_linking_info_v1 (*skill_id*, *stage_v2*, *account_linking_request*, ***kwargs*)
 Create AccountLinking information for the skill.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **stage_v2** (*str*) – (required) Stages of a skill including the new certified stage. * *development* - skills which are currently in development corresponds to this stage. * *certified* - skills which have completed certification and ready for publishing corresponds to this stage. * *live* - skills which are currently live corresponds to this stage.
- **account_linking_request** (`ask_smapi_model.v1.skill.account_linking.account_linking_request.AccountLinkingRequest`) – (required) The fields required to create accountLinking partner.
- **if_match** (*str*) – Request header that specified an entity tag. The server will update the resource only if the eTag matches with the resource’s current eTag.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *StandardizedErrorV1*, *BadRequestErrorV1*]

update_annotations_for_nlu_annotation_sets_v1 (*skill_id*, *annotation_id*, *content_type*, *update_nlu_annotation_set_annotations_request*, ***kwargs*)

Replace the annotations in NLU annotation set. API which replaces the annotations in NLU annotation set.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **annotation_id** (*str*) – (required) Identifier of the NLU annotation set.
- **content_type** (*str*) – (required) Standard HTTP. Pass *application/json* or *test/csv* for POST calls with a json/csv body.
- **update_nlu_annotation_set_annotations_request** (`ask_smapi_model.v1.skill.nlu.annotation_sets.update_nlu_annotation_set_annotations_request.UpdateNLUAnnotationSetAnnotationsRequest`) – (required) Payload sent to the update NLU annotation set API.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV1*, *BadRequestErrorV1*]

update_beta_test_v1 (*skill_id*, ***kwargs*)
 Update beta test. Update a beta test for a given Alexa skill.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **create_test_body** (`ask_smapi_model.v1.skill.beta_test.test_body.TestBody`) – JSON object containing the details of a beta test used to create the test.

- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *ErrorV1*, *BadRequestErrorV1*]

update_interaction_model_catalog_v1 (*catalog_id*, *update_request*, ***kwargs*)

Update description and vendorGuidance string for certain version of a catalog.

Parameters

- **catalog_id** (*str*) – (required) Provides a unique identifier of the catalog
- **update_request** (*ask_smapi_model.v1.skill.interaction_model.catalog.update_request.UpdateRequest*) – (required)
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *StandardizedErrorV1*, *BadRequestErrorV1*]

update_interaction_model_catalog_version_v1 (*catalog_id*, *version*, ***kwargs*)

Update description and vendorGuidance string for certain version of a catalog.

Parameters

- **catalog_id** (*str*) – (required) Provides a unique identifier of the catalog
- **version** (*str*) – (required) Version for interaction model.
- **catalog_update** (*ask_smapi_model.v1.skill.interaction_model.version.catalog_update.CatalogUpdate*) –
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *StandardizedErrorV1*, *BadRequestErrorV1*]

update_interaction_model_slot_type_v1 (*slot_type_id*, *update_request*, ***kwargs*)

Update description and vendorGuidance string for certain version of a slot type.

Parameters

- **slot_type_id** (*str*) – (required) The identifier for a slot type.
- **update_request** (*ask_smapi_model.v1.skill.interaction_model.model_type.update_request.UpdateRequest*) – (required)
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, *StandardizedErrorV1*, *BadRequestErrorV1*]

update_interaction_model_slot_type_version_v1 (*slot_type_id*, *version*, *slot_type_update*, ***kwargs*)

Update description and vendorGuidance string for certain version of a slot type.

Parameters

- **slot_type_id** (*str*) – (required) The identifier for a slot type.
- **version** (*str*) – (required) Version for interaction model.

- **slot_type_update** (*ask_smapi_model.v1.skill.interaction_model.type_version.slot_type_update.SlotTypeUpdate*) – (required)
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1]

update_isp_for_product_v1 (*product_id, stage, update_in_skill_product_request, **kwargs*)
 Updates in-skill product definition for given productId. Only development stage supported.

Parameters

- **product_id** (*str*) – (required) The in-skill product ID.
- **stage** (*str*) – (required) Stage for skill.
- **update_in_skill_product_request** (*ask_smapi_model.v1.isp.update_in_skill_product_request.UpdateInSkillProductRequest*) – (required) defines the request body for updateInSkillProduct API.
- **if_match** (*str*) – Request header that specified an entity tag. The server will update the resource only if the eTag matches with the resource’s current eTag.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, BadRequestErrorV1]

update_properties_for_nlu_annotation_sets_v1 (*skill_id, annotation_id, update_nlu_annotation_set_properties_request, **kwargs*)

update the NLU annotation set properties. API which updates the NLU annotation set properties. Currently, the only data can be updated is annotation set name.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **annotation_id** (*str*) – (required) Identifier of the NLU annotation set.
- **update_nlu_annotation_set_properties_request** (*ask_smapi_model.v1.skill.nlu.annotation_sets.update_nlu_annotation_set_properties_request.UpdateNLUAnnotationSetPropertiesRequest*) – (required) Payload sent to the update NLU annotation set properties API.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, ErrorV1, BadRequestErrorV1]

update_skill_manifest_v1 (*skill_id, stage_v2, update_skill_request, **kwargs*)
 Updates skill manifest for given skillId and stage.

Parameters

- **skill_id** (*str*) – (required) The skill ID.

- **stage_v2** (*str*) – (required) Stages of a skill including the new certified stage. * *development* - skills which are currently in development corresponds to this stage. * *certified* - skills which have completed certification and ready for publishing corresponds to this stage. * *live* - skills which are currently live corresponds to this stage.
- **update_skill_request** (`ask_smapi_model.v1.skill.manifest.skill_manifest_envelope.SkillManifestEnvelope`) – (required) Defines the request body for updateSkill API.
- **if_match** (*str*) – Request header that specified an entity tag. The server will update the resource only if the eTag matches with the resource’s current eTag.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1]

withdraw_skill_from_certification_v1 (*skill_id*, *withdraw_request*, ***kwargs*)

Withdraws the skill from certification.

Parameters

- **skill_id** (*str*) – (required) The skill ID.
- **withdraw_request** (`ask_smapi_model.v1.skill.withdraw_request.WithdrawRequest`) – (required) The reason and message (in case of OTHER) to withdraw a skill.
- **full_response** (*boolean*) – Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[*ApiResponse*, StandardizedErrorV1, BadRequestErrorV1]

10.1.2 ask_smapi_model.v1 package

Subpackages

ask_smapi_model.v1.catalog package

Subpackages

ask_smapi_model.v1.catalog.upload package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_smapi_model.v1.catalog.upload.catalog_upload_base module

```
class ask_smapi_model.v1.catalog.upload.catalog_upload_base.CatalogUploadBase
    Bases: object
    attribute_map = {}
    deserialized_types = {}
    supports_multiple_types = False
    to_dict ()
        Returns the model properties as a dict
    to_str ()
        Returns the string representation of the model
```

ask_smapi_model.v1.catalog.upload.content_upload_file_summary module

```
class ask_smapi_model.v1.catalog.upload.content_upload_file_summary.ContentUploadFileSummary
```

Bases: object

Parameters

- **download_url** ((optional) str) – If the file is available for download, download-Url can be used to download the file.
- **expires_at** ((optional) datetime) –
- **status** ((optional) ask_smapi_model.v1.catalog.upload.file_upload_status.FileUploadStatus) –

```
attribute_map = {'download_url': 'downloadUrl', 'expires_at': 'expiresAt', 'status': 'status'}
deserialized_types = {'download_url': 'str', 'expires_at': 'datetime', 'status': 'FileUploadStatus'}
supports_multiple_types = False
to_dict ()
    Returns the model properties as a dict
to_str ()
    Returns the string representation of the model
```

ask_smapi_model.v1.catalog.upload.file_upload_status module

```
class ask_smapi_model.v1.catalog.upload.file_upload_status.FileUploadStatus
```

Bases: enum.Enum

Value of status depends on if file is available for download or not.

Allowed enum values: [PENDING, AVAILABLE, PURGED, UNAVAILABLE]

AVAILABLE = 'AVAILABLE'

PENDING = 'PENDING'

```

PURGED = 'PURGED'
UNAVAILABLE = 'UNAVAILABLE'
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.catalog.upload.get_content_upload_response module

```
class ask_smapi_model.v1.catalog.upload.get_content_upload_response.GetContentUploadResponse
```

Bases: `object`

Parameters

- **id** (*optional* `str`) – Unique identifier of the upload
- **catalog_id** (*optional* `str`) – Unique identifier of the added catalog object
- **status** (*optional* `ask_smapi_model.v1.catalog.upload.upload_status.UploadStatus`) –
- **created_date** (*optional* `datetime`) –
- **last_updated_date** (*optional* `datetime`) –
- **file** (*optional* `ask_smapi_model.v1.catalog.upload.content_upload_file_summary.ContentUploadFileSummary`) –
- **ingestion_steps** (*optional* `list[ask_smapi_model.v1.catalog.upload.upload_ingestion_step.UploadIngestionStep]`) – List of different steps performed on the upload.

```

attribute_map = {'catalog_id': 'catalogId', 'created_date': 'createdDate', 'file':
deserialized_types = {'catalog_id': 'str', 'created_date': 'datetime', 'file': 'ask
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.catalog.upload.ingestion_status module

```

class ask_smapi_model.v1.catalog.upload.ingestion_status.IngestionStatus
    Bases: enum.Enum

    Allowed enum values: [PENDING, IN_PROGRESS, FAILED, SUCCEEDED, CANCELLED]

    CANCELLED = 'CANCELLED'
    FAILED = 'FAILED'
    IN_PROGRESS = 'IN_PROGRESS'
    PENDING = 'PENDING'
    SUCCEEDED = 'SUCCEEDED'

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model
    
```

ask_smapi_model.v1.catalog.upload.ingestion_step_name module

```

class ask_smapi_model.v1.catalog.upload.ingestion_step_name.IngestionStepName
    Bases: enum.Enum

    Allowed enum values: [UPLOAD, SCHEMA_VALIDATION]

    SCHEMA_VALIDATION = 'SCHEMA_VALIDATION'
    UPLOAD = 'UPLOAD'

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model
    
```

ask_smapi_model.v1.catalog.upload.location module

```

class ask_smapi_model.v1.catalog.upload.location.Location(location=None)
    Bases: ask_smapi_model.v1.catalog.upload.catalog_upload_base.CatalogUploadBase

    Request body for self-hosted catalog uploads

    Parameters location (optional) str – self hosted url location.

    attribute_map = {'location': 'location'}
    deserialized_types = {'location': 'str'}
    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model
    
```

ask_smapi_model.v1.catalog.upload.pre_signed_url module

```
class ask_smapi_model.v1.catalog.upload.pre_signed_url.PreSignedUrl (url_id=None,  

part_e_tags=None)
```

Bases: `ask_smapi_model.v1.catalog.upload.catalog_upload_base.CatalogUploadBase`

Request body for self-hosted catalog uploads

Parameters

- `url_id` (*optional str*) – Unique identifier for urls
- `part_e_tags` (*optional list[ask_smapi_model.v1.catalog.upload.pre_signed_url_item.PreSignedUrlItem]*) – List of (eTag, part number) pairs for each part of the file uploaded

```
attribute_map = {'part_e_tags': 'partETags', 'url_id': 'urlId'}
```

```
deserialized_types = {'part_e_tags': 'list[ask_smapi_model.v1.catalog.upload.pre_signed_url_item.PreSignedUrlItem]'
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_smapi_model.v1.catalog.upload.pre_signed_url_item module

```
class ask_smapi_model.v1.catalog.upload.pre_signed_url_item.PreSignedUrlItem (e_tag=None,  

part_number=None)
```

Bases: `object`

Parameters

- `e_tag` (*optional str*) –
- `part_number` (*optional int*) –

```
attribute_map = {'e_tag': 'eTag', 'part_number': 'partNumber'}
```

```
deserialized_types = {'e_tag': 'str', 'part_number': 'int'}
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_smapi_model.v1.catalog.upload.upload_ingestion_step module

```
class ask_smapi_model.v1.catalog.upload.upload_ingestion_step.UploadIngestionStep (name=None, status=None, log_url=None, violations=None)
```

Bases: `object`

Represents a single step in the multi-step ingestion process of a new upload.

Parameters

- **name** ((optional) `ask_smapi_model.v1.catalog.upload.ingestion_step_name.IngestionStepName`) –
- **status** ((optional) `ask_smapi_model.v1.catalog.upload.ingestion_status.IngestionStatus`) –
- **log_url** ((optional) `str`) – Url for the file containing logs of ingestion step.
- **violations** ((optional) `list[ask_smapi_model.v1.error.Error]`) – This array will contain the violations occurred during the execution of step. Will be empty, if execution succeeded.

```
attribute_map = {'log_url': 'logUrl', 'name': 'name', 'status': 'status', 'violations': 'violations'}
```

```
deserialized_types = {'log_url': 'str', 'name': 'ask_smapi_model.v1.catalog.upload.ingestion_step_name.IngestionStepName', 'status': 'ask_smapi_model.v1.catalog.upload.ingestion_status.IngestionStatus', 'violations': 'list[ask_smapi_model.v1.error.Error]'}
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_smapi_model.v1.catalog.upload.upload_status module

```
class ask_smapi_model.v1.catalog.upload.upload_status.UploadStatus
```

Bases: `enum.Enum`

Status of the entire upload.

Allowed enum values: [PENDING, IN_PROGRESS, FAILED, SUCCEEDED]

```
FAILED = 'FAILED'
```

```
IN_PROGRESS = 'IN_PROGRESS'
```

```
PENDING = 'PENDING'
```

```
SUCCEEDED = 'SUCCEEDED'
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

`ask_smapi_model.v1.catalog.create_content_upload_url_request` module

class `ask_smapi_model.v1.catalog.create_content_upload_url_request.CreateContentUploadUrlRequest`
Bases: `object`

Parameters `number_of_upload_parts` (*optional*) `int` – Provides the number of parts the file will be split into. An equal number of presigned upload urls are generated in response to facilitate each part's upload.

`attribute_map` = {'number_of_upload_parts': 'numberOfUploadParts'}

`deserialized_types` = {'number_of_upload_parts': 'int'}

`supports_multiple_types` = `False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

`ask_smapi_model.v1.catalog.create_content_upload_url_response` module

class `ask_smapi_model.v1.catalog.create_content_upload_url_response.CreateContentUploadUrlResponse`

Bases: `object`

Parameters

- `url_id` (*optional*) `str` – Unique identifier for collection of generated urls.
- `pre_signed_upload_parts` (*optional*) `list[ask_smapi_model.v1.catalog.presigned_upload_part_items.PresignedUploadPartItems]` – Ordered list of presigned upload parts to perform a partitioned (multipart) file upload

`attribute_map` = {'pre_signed_upload_parts': 'preSignedUploadParts', 'url_id': 'urlId'}

`deserialized_types` = {'pre_signed_upload_parts': 'list[ask_smapi_model.v1.catalog.presigned_upload_part_items.PresignedUploadPartItems]'}

`supports_multiple_types` = `False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

ask_smapi_model.v1.catalog.presigned_upload_part_items module

class ask_smapi_model.v1.catalog.presigned_upload_part_items.**PresignedUploadPartItems** (*url=None*, *part_number=None*, *expires_at=None*)

Bases: object

Parameters

- **url** (*optional*) *str* –
- **part_number** (*optional*) *int* –
- **expires_at** (*optional*) *datetime* –

attribute_map = {'expires_at': 'expiresAt', 'part_number': 'partNumber', 'url': 'url'}

deserialized_types = {'expires_at': 'datetime', 'part_number': 'int', 'url': 'str'}

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.isp package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_smapi_model.v1.isp.associated_skill_response module

class ask_smapi_model.v1.isp.associated_skill_response.**AssociatedSkillResponse** (*associated_skill_id=None*, *links=None*, *is_truncated=None*, *next_token=None*)

Bases: object

In-skill product skill association details.

Parameters

- **associated_skill_ids** (*optional*) *list[str]* – List of skill IDs that correspond to the skills associated with the in-skill product. The associations are stage specific. A live association is created through successful skill certification.
- **links** (*optional*) `ask_smapi_model.v1.links.Links` –
- **is_truncated** (*optional*) *bool* –

- `next_token((optional) str)`–

```

attribute_map = {'associated_skill_ids': 'associatedSkillIds', 'is_truncated': 'isTruncated'}
deserialized_types = {'associated_skill_ids': 'list[str]', 'is_truncated': 'bool', 'next_token': 'str'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_smapi_model.v1.isp.create_in_skill_product_request module

```

class ask_smapi_model.v1.isp.create_in_skill_product_request.CreateInSkillProductRequest (ve
    in
    
```

Bases: `object`

Parameters

- `vendor_id((optional) str)`– ID of the vendor owning the in-skill product.
- `in_skill_product_definition ((optional) ask_smapi_model.v1.isp.in_skill_product_definition.InSkillProductDefinition)`–

```

attribute_map = {'in_skill_product_definition': 'inSkillProductDefinition', 'vendor_id': 'vendorId'}
deserialized_types = {'in_skill_product_definition': 'ask_smapi_model.v1.isp.in_skill_product_definition.InSkillProductDefinition', 'vendor_id': 'str'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_smapi_model.v1.isp.currency module

```

class ask_smapi_model.v1.isp.currency.Currency
    
```

Bases: `enum.Enum`

Currency to use for in-skill product.

Allowed enum values: [USD, GBP, EUR, JPY]

```
EUR = 'EUR'
```

```
GBP = 'GBP'
```

```
JPY = 'JPY'
```

```
USD = 'USD'
```

```

to_dict()
    Returns the model properties as a dict
    
```

```

to_str()
    Returns the string representation of the model
    
```

ask_smapi_model.v1.isp.custom_product_prompts module

class ask_smapi_model.v1.isp.custom_product_prompts.**CustomProductPrompts** (*purchase_prompt_description*, *bought_confirmation_prompt*)

Bases: `object`

Custom prompts used for in-skill product purchasing options. Supports Speech Synthesis Markup Language (SSML), which can be used to control pronunciation, intonation, timing, and emotion.

Parameters

- **purchase_prompt_description** (*(optional) str*) – Description of in-skill product heard before customer is prompted for purchase.
- **bought_confirmation_prompt** (*(optional) str*) – Confirmation of in-skill product purchase.

attribute_map = {'bought_confirmation_prompt': 'boughtConfirmationPrompt', 'purchase_prompt_description': 'purchasePromptDescription'}

deserialized_types = {'bought_confirmation_prompt': 'str', 'purchase_prompt_description': 'str'}

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.isp.distribution_countries module

class ask_smapi_model.v1.isp.distribution_countries.**DistributionCountries**

Bases: `enum.Enum`

Allowed enum values: [AF, AX, AL, DZ, AS, AD, AO, AI, AQ, AG, AR, AM, AW, AU, AT, AZ, BS, BH, BD, BB, BY, BE, BZ, BJ, BM, BT, BO, BA, BW, BV, BR, IO, BN, BG, BF, BI, KH, CM, CA, CV, KY, CF, TD, CL, CN, CX, CC, CO, KM, CG, CD, CK, CR, HR, CY, CZ, DK, DJ, DM, DO, EC, EG, SV, GQ, ER, EE, ET, FK, FO, FJ, FI, FR, GF, PF, TF, GA, GM, GE, DE, GH, GI, GR, GL, GD, GP, GU, GT, GG, GN, GW, GY, HT, HM, VA, HN, HK, HU, IS, IN, ID, IQ, IE, IM, IL, IT, CI, JM, JP, JE, JO, KZ, KE, KI, KR, KW, KG, LA, LV, LB, LS, LR, LY, LI, LT, LU, MO, MK, MG, MW, MY, MV, ML, MT, MH, MQ, MR, MU, YT, MX, FM, MD, MC, MN, ME, MS, MA, MZ, MM, NA, NR, NP, NL, AN, NC, NZ, NI, NE, NG, NU, NF, MP, NO, OM, PK, PW, PS, PA, PG, PY, PE, PH, PN, PL, PT, PR, QA, RE, RO, RU, RW, BL, SH, KN, LC, MF, PM, VC, WS, SM, ST, SA, SN, RS, SC, SL, SG, SK, SI, SB, SO, ZA, GS, ES, LK, SR, SJ, SZ, SE, CH, TW, TJ, TZ, TH, TL, TG, TK, TO, TT, TN, TR, TM, TC, TV, UG, UA, AE, GB, US, UM, UY, UZ, VU, VE, VN, VG, VI, WF, EH, YE, ZM, ZW]

AD = 'AD'

AE = 'AE'

AF = 'AF'

AG = 'AG'

AI = 'AI'

AL = 'AL'

AM = 'AM'

AN = 'AN'

AO = 'AO'
AQ = 'AQ'
AR = 'AR'
AS = 'AS'
AT = 'AT'
AU = 'AU'
AW = 'AW'
AX = 'AX'
AZ = 'AZ'
BA = 'BA'
BB = 'BB'
BD = 'BD'
BE = 'BE'
BF = 'BF'
BG = 'BG'
BH = 'BH'
BI = 'BI'
BJ = 'BJ'
BL = 'BL'
BM = 'BM'
BN = 'BN'
BO = 'BO'
BR = 'BR'
BS = 'BS'
BT = 'BT'
BV = 'BV'
BW = 'BW'
BY = 'BY'
BZ = 'BZ'
CA = 'CA'
CC = 'CC'
CD = 'CD'
CF = 'CF'
CG = 'CG'
CH = 'CH'
CI = 'CI'

```
CK = 'CK'  
CL = 'CL'  
CM = 'CM'  
CN = 'CN'  
CO = 'CO'  
CR = 'CR'  
CV = 'CV'  
CX = 'CX'  
CY = 'CY'  
CZ = 'CZ'  
DE = 'DE'  
DJ = 'DJ'  
DK = 'DK'  
DM = 'DM'  
DO = 'DO'  
DZ = 'DZ'  
EC = 'EC'  
EE = 'EE'  
EG = 'EG'  
EH = 'EH'  
ER = 'ER'  
ES = 'ES'  
ET = 'ET'  
FI = 'FI'  
FJ = 'FJ'  
FK = 'FK'  
FM = 'FM'  
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FR = 'FR'  
GA = 'GA'  
GB = 'GB'  
GD = 'GD'  
GE = 'GE'  
GF = 'GF'  
GG = 'GG'  
GH = 'GH'
```

GI = 'GI'
GL = 'GL'
GM = 'GM'
GN = 'GN'
GP = 'GP'
GQ = 'GQ'
GR = 'GR'
GS = 'GS'
GT = 'GT'
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GW = 'GW'
GY = 'GY'
HK = 'HK'
HM = 'HM'
HN = 'HN'
HR = 'HR'
HT = 'HT'
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IL = 'IL'
IM = 'IM'
IN = 'IN'
IO = 'IO'
IQ = 'IQ'
IS = 'IS'
IT = 'IT'
JE = 'JE'
JM = 'JM'
JO = 'JO'
JP = 'JP'
KE = 'KE'
KG = 'KG'
KH = 'KH'
KI = 'KI'
KM = 'KM'

```
KN = 'KN'  
KR = 'KR'  
KW = 'KW'  
KY = 'KY'  
KZ = 'KZ'  
LA = 'LA'  
LB = 'LB'  
LC = 'LC'  
LI = 'LI'  
LK = 'LK'  
LR = 'LR'  
LS = 'LS'  
LT = 'LT'  
LU = 'LU'  
LV = 'LV'  
LY = 'LY'  
MA = 'MA'  
MC = 'MC'  
MD = 'MD'  
ME = 'ME'  
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MG = 'MG'  
MH = 'MH'  
MK = 'MK'  
ML = 'ML'  
MM = 'MM'  
MN = 'MN'  
MO = 'MO'  
MP = 'MP'  
MQ = 'MQ'  
MR = 'MR'  
MS = 'MS'  
MT = 'MT'  
MU = 'MU'  
MV = 'MV'  
MW = 'MW'
```

`MX = 'MX'`
`MY = 'MY'`
`MZ = 'MZ'`
`NA = 'NA'`
`NC = 'NC'`
`NE = 'NE'`
`NF = 'NF'`
`NG = 'NG'`
`NI = 'NI'`
`NL = 'NL'`
`NO = 'NO'`
`NP = 'NP'`
`NR = 'NR'`
`NU = 'NU'`
`NZ = 'NZ'`
`OM = 'OM'`
`PA = 'PA'`
`PE = 'PE'`
`PF = 'PF'`
`PG = 'PG'`
`PH = 'PH'`
`PK = 'PK'`
`PL = 'PL'`
`PM = 'PM'`
`PN = 'PN'`
`PR = 'PR'`
`PS = 'PS'`
`PT = 'PT'`
`PW = 'PW'`
`PY = 'PY'`
`QA = 'QA'`
`RE = 'RE'`
`RO = 'RO'`
`RS = 'RS'`
`RU = 'RU'`
`RW = 'RW'`

```
SA = 'SA'  
SB = 'SB'  
SC = 'SC'  
SE = 'SE'  
SG = 'SG'  
SH = 'SH'  
SI = 'SI'  
SJ = 'SJ'  
SK = 'SK'  
SL = 'SL'  
SM = 'SM'  
SN = 'SN'  
SO = 'SO'  
SR = 'SR'  
ST = 'ST'  
SV = 'SV'  
SZ = 'SZ'  
TC = 'TC'  
TD = 'TD'  
TF = 'TF'  
TG = 'TG'  
TH = 'TH'  
TJ = 'TJ'  
TK = 'TK'  
TL = 'TL'  
TM = 'TM'  
TN = 'TN'  
TO = 'TO'  
TR = 'TR'  
TT = 'TT'  
TV = 'TV'  
TW = 'TW'  
TZ = 'TZ'  
UA = 'UA'  
UG = 'UG'  
UM = 'UM'
```



```
US = 'US'  
UY = 'UY'  
UZ = 'UZ'  
VA = 'VA'  
VC = 'VC'  
VE = 'VE'  
VG = 'VG'  
VI = 'VI'  
VN = 'VN'  
VU = 'VU'  
WF = 'WF'  
WS = 'WS'  
YE = 'YE'  
YT = 'YT'  
ZA = 'ZA'  
ZM = 'ZM'  
ZW = 'ZW'
```

```
to_dict ()  
    Returns the model properties as a dict  
to_str ()  
    Returns the string representation of the model
```

ask_smapi_model.v1.isp.editable_state module

```
class ask_smapi_model.v1.isp.editable_state.EditableState  
    Bases: enum.Enum
```

Whether or not the in-skill product is editable.

Allowed enum values: [EDITABLE, NOT_EDITABLE]

```
EDITABLE = 'EDITABLE'
```

```
NOT_EDITABLE = 'NOT_EDITABLE'
```

```
to_dict ()  
    Returns the model properties as a dict
```

```
to_str ()  
    Returns the string representation of the model
```

ask_smapi_model.v1.isp.in_skill_product_definition module

```
class ask_smapi_model.v1.isp.in_skill_product_definition.InSkillProductDefinition (version=None,
object_type=None,
reference_name=None,
purchasable_state=None,
subscription_information=None,
publishing_information=None,
privacy_and_compliance=None,
testing_instructions=None)
```

Bases: `object`

Defines the structure for an in-skill product.

Parameters

- **version** (*optional* `str`) – Version of in-skill product definition.
- **object_type** (*optional* `ask_smapi_model.v1.isp.product_type.ProductType`) –
- **reference_name** (*optional* `str`) – Developer selected in-skill product name. This is for developer reference only, it can be used to filter query results to identify a matching in-skill product.
- **purchasable_state** (*optional* `ask_smapi_model.v1.isp.purchasable_state.PurchasableState`) –
- **subscription_information** (*optional* `ask_smapi_model.v1.isp.subscription_information.SubscriptionInformation`) –
- **publishing_information** (*optional* `ask_smapi_model.v1.isp.publishing_information.PublishingInformation`) –
- **privacy_and_compliance** (*optional* `ask_smapi_model.v1.isp.privacy_and_compliance.PrivacyAndCompliance`) –
- **testing_instructions** (*optional* `str`) – Special instructions provided by the developer to test the in-skill product.

```
attribute_map = {'object_type': 'type', 'privacy_and_compliance': 'privacyAndCompliance'}
```

```
deserialized_types = {'object_type': 'ask_smapi_model.v1.isp.product_type.ProductType'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_smapi_model.v1.isp.in_skill_product_definition_response module

class ask_smapi_model.v1.isp.in_skill_product_definition_response.**InSkillProductDefinitionResponse**

Bases: `object`

Defines In-skill product response.

Parameters `in_skill_product_definition` ((optional) ask_smapi_model.v1.isp.in_skill_product_definition.InSkillProductDefinition)

-

attribute_map = {'in_skill_product_definition': 'inSkillProductDefinition'}

deserialized_types = {'in_skill_product_definition': 'ask_smapi_model.v1.isp.in_skill_product_definition_response.InSkillProductDefinitionResponse'}

supports_multiple_types = **False**

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.isp.in_skill_product_summary module

class ask_smapi_model.v1.isp.in_skill_product_summary.**InSkillProductSummary**

(object_type=None, product_id=None, reference_name=None, last_updated=None, name_by_locale=None, status=None, stage=None, editable_state=None, purchasable_state=None, links=None, pricing=None)

Bases: `object`

Information about the in-skill product that is not editable.

Parameters

- **object_type** ((optional) ask_smapi_model.v1.isp.product_type.ProductType) -
- **product_id** ((optional) str) - primary identifier of in-skill product.
- **reference_name** ((optional) str) - Developer selected in-skill product name. This is for developer reference only, it can be used to filter query results to identify a matching in-skill product.
- **last_updated** ((optional) datetime) - Date of last update.

- **name_by_locale** *((optional) dict(str, str))*–
- **status** *((optional) ask_smapi_model.v1.isp.status.Status)*–
- **stage** *((optional) ask_smapi_model.v1.isp.stage.Stage)*–
- **editable_state** *((optional) ask_smapi_model.v1.isp.editable_state.EditableState)*–
- **purchasable_state** *((optional) ask_smapi_model.v1.isp.purchasable_state.PurchasableState)*–
- **links** *((optional) ask_smapi_model.v1.isp.isp_summary_links.IspSummaryLinks)*–
- **pricing** *((optional) dict(str, ask_smapi_model.v1.isp.summary_marketplace_pricing.SummaryMarketplacePricing))* –
In-skill product pricing information.

```

attribute_map = {'editable_state': 'editableState', 'last_updated': 'lastUpdated', '
deserialized_types = {'editable_state': 'ask_smapi_model.v1.isp.editable_state.Editable
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.isp.in_skill_product_summary_response module

```

class ask_smapi_model.v1.isp.in_skill_product_summary_response.InSkillProductSummaryResponse
    Bases: object

    In-skill product summary response.

    Parameters in_skill_product_summary ((optional) ask_smapi_model.v1.isp.in_skill_product_summary.InSkillProductSummary)–

    attribute_map = {'in_skill_product_summary': 'inSkillProductSummary'}
    deserialized_types = {'in_skill_product_summary': 'ask_smapi_model.v1.isp.in_skill_pr
    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model

```

ask_smapi_model.v1.isp.isp_summary_links module

```

class ask_smapi_model.v1.isp.isp_summary_links.IspSummaryLinks(object_self=None)
    Bases: object

    Parameters object_self ((optional) ask_smapi_model.v1.link.Link)–

    attribute_map = {'object_self': 'self'}

```

```

deserialized_types = {'object_self': 'ask_smapi_model.v1.link.Link'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.isp.list_in_skill_product module

```

class ask_smapi_model.v1.isp.list_in_skill_product.ListInSkillProduct (links=None,
                                                                    in_skill_products=None,
                                                                    is_truncated=None,
                                                                    next_token=None)

```

Bases: `object`

List of in-skill products.

Parameters

- **links** (*optional*) `ask_smapi_model.v1.links.Links`–
- **in_skill_products** (*optional*) `list[ask_smapi_model.v1.isp.in_skill_product_summary.InSkillProductSummary]` – Information for each in-skill product.
- **is_truncated** (*optional*) `bool`–
- **next_token** (*optional*) `str`–

```

attribute_map = {'in_skill_products': 'inSkillProducts', 'is_truncated': 'isTruncated'}
deserialized_types = {'in_skill_products': 'list[ask_smapi_model.v1.isp.in_skill_product_summary.InSkillProductSummary]'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.isp.list_in_skill_product_response module

```

class ask_smapi_model.v1.isp.list_in_skill_product_response.ListInSkillProductResponse (in_skill_product_summary_list=None)
Bases: object

```

List of in-skill product response.

Parameters **in_skill_product_summary_list** (*optional*) `ask_smapi_model.v1.isp.list_in_skill_product.ListInSkillProduct`–

```

attribute_map = {'in_skill_product_summary_list': 'inSkillProductSummaryList'}
deserialized_types = {'in_skill_product_summary_list': 'ask_smapi_model.v1.isp.list_in_skill_product.ListInSkillProduct'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict

```

`to_str()`
Returns the string representation of the model

ask_smapi_model.v1.isp.localized_privacy_and_compliance module

class `ask_smapi_model.v1.isp.localized_privacy_and_compliance.LocalizedPrivacyAndCompliance`
Bases: `object`

Defines the structure for localized privacy and compliance.

Parameters `privacy_policy_url` (*optional*) `str` – Link to the privacy policy that applies to this in-skill product.

`attribute_map` = {'privacy_policy_url': 'privacyPolicyUrl'}

`deserialized_types` = {'privacy_policy_url': 'str'}

`supports_multiple_types` = `False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

ask_smapi_model.v1.isp.localized_publishing_information module

class `ask_smapi_model.v1.isp.localized_publishing_information.LocalizedPublishingInformation`

Bases: `object`

Defines the structure for locale specific publishing information in the in-skill product definition.

Parameters

- **name** (*optional*) `str` – Name of the in-skill product that is heard by customers and displayed in the Alexa app.
- **small_icon_uri** (*optional*) `str` – Uri for the small icon image of the in-skill product.
- **large_icon_uri** (*optional*) `str` – Uri for the large icon image of the in-skill product.
- **summary** (*optional*) `str` – Short description of the in-skill product that displays on the in-skill product list page in the Alexa App.

- **description** (*optional* *str*) – Description of the in-skill product’s purpose and features, and how it works. Should describe any prerequisites like hardware or account requirements and detailed steps for the customer to get started. This description displays to customers on the in-skill product detail card in the Alexa app.
- **example_phrases** (*optional* *list[str]*) – Example phrases appear on the in-skill product detail page and are the key utterances that customers can say to interact directly with the in-skill product.
- **keywords** (*optional* *list[str]*) – Search terms that can be used to describe the in-skill product. This helps customers find an in-skill product.
- **custom_product_prompts** (*optional* *ask_smapi_model.v1.isp.custom_product_prompts.CustomProductPrompts*) –

```
attribute_map = {'custom_product_prompts': 'customProductPrompts', 'description': 'd
```

```
deserialized_types = {'custom_product_prompts': 'ask_smapi_model.v1.isp.custom_produc
```

```
supports_multiple_types = False
```

```
to_dict()
```

```
Returns the model properties as a dict
```

```
to_str()
```

```
Returns the string representation of the model
```

ask_smapi_model.v1.isp.marketplace_pricing module

```
class ask_smapi_model.v1.isp.marketplace_pricing.MarketplacePricing(release_date=None,  
                                                                    de-  
                                                                    fault_price_listing=None)
```

Bases: `object`

In-skill product pricing information for a marketplace.

Parameters

- **release_date** (*optional* *datetime*) – Date when in-skill product is available to customers for both purchase and use. Prior to this date the in-skill product will appear unavailable to customers and will not be purchasable.
- **default_price_listing** (*optional* *ask_smapi_model.v1.isp.price_listing.PriceListing*) –

```
attribute_map = {'default_price_listing': 'defaultPriceListing', 'release_date': 're
```

```
deserialized_types = {'default_price_listing': 'ask_smapi_model.v1.isp.price_listing.1
```

```
supports_multiple_types = False
```

```
to_dict()
```

```
Returns the model properties as a dict
```

```
to_str()
```

```
Returns the string representation of the model
```

ask_smapi_model.v1.isp.price_listing module

class ask_smapi_model.v1.isp.price_listing.**PriceListing** (*price=None, currency=None*)

Bases: object

Price listing information for in-skill product.

Parameters

- **price** (*(optional) float*) – Defines the price of an in-skill product. The list price should be your suggested price, not including any VAT or similar taxes. Taxes are included in the final price to end users.
- **currency** (*(optional) ask_smapi_model.v1.isp.currency.Currency*) –

attribute_map = {'currency': 'currency', 'price': 'price'}

deserialized_types = {'currency': 'ask_smapi_model.v1.isp.currency.Currency', 'price': 'ask_smapi_model.v1.isp.price_listing.PriceListing'}

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.isp.privacy_and_compliance module

class ask_smapi_model.v1.isp.privacy_and_compliance.**PrivacyAndCompliance** (*locales=None*)

Bases: object

Defines the structure for privacy and compliance.

- Parameters locales** (*(optional) dict(str, ask_smapi_model.v1.isp.localized_privacy_and_compliance.LocalizedPrivacyAndCompliance)*) – Defines the structure for locale specific privacy and compliance.

attribute_map = {'locales': 'locales'}

deserialized_types = {'locales': 'dict(str, ask_smapi_model.v1.isp.localized_privacy_and_compliance.LocalizedPrivacyAndCompliance)'}

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.isp.product_response module

class ask_smapi_model.v1.isp.product_response.**ProductResponse** (*product_id=None*)

Bases: object

Product ID information.

- Parameters product_id** (*(optional) str*) – ID of the in-skill product created.


```

attribute_map = {'product_id': 'productId'}
deserialized_types = {'product_id': 'str'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.isp.product_type module

```

class ask_smapi_model.v1.isp.product_type.ProductType
    Bases: enum.Enum

    Type of in-skill product.

    Allowed enum values: [SUBSCRIPTION, ENTITLEMENT, CONSUMABLE]

    CONSUMABLE = 'CONSUMABLE'
    ENTITLEMENT = 'ENTITLEMENT'
    SUBSCRIPTION = 'SUBSCRIPTION'

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model

```

ask_smapi_model.v1.isp.publishing_information module

```

class ask_smapi_model.v1.isp.publishing_information.PublishingInformation (locales=None,
                                                                           dis-
                                                                           tri-
                                                                           bu-
                                                                           tion_countries=None,
                                                                           pric-
                                                                           ing=None,
                                                                           tax_information=None)

Bases: object

Defines the structure for in-skill product publishing information.

```

Parameters

- **locales** ((optional) dict(str, ask_smapi_model.v1.isp.localized_publishing_information.LocalizedPublishingInformation)) – Defines the structure for locale specific publishing information for an in-skill product.
- **distribution_countries** ((optional) list[ask_smapi_model.v1.isp.distribution_countries.DistributionCountries]) – List of countries where the in-skill product is available.

- **pricing** ((*optional*) dict(*str*, ask_smapi_model.v1.isp.marketplace_pricing.MarketplacePricing)) – Defines the structure for in-skill product pricing.
- **tax_information** ((*optional*) ask_smapi_model.v1.isp.tax_information.TaxInformation)–

```

attribute_map = {'distribution_countries': 'distributionCountries', 'locales': 'locales'}
deserialized_types = {'distribution_countries': 'list[ask_smapi_model.v1.isp.distribution_countries.DistributionCountries]'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.isp.purchasable_state module

class ask_smapi_model.v1.isp.purchasable_state.PurchasableState

Bases: `enum.Enum`

Whether or not the in-skill product is purchasable by customers. A product that is not purchasable will prevent new customers from being prompted to purchase the product. Customers who already own the product will see no effect and continue to have access to the product features.

Allowed enum values: [PURCHASABLE, NOT_PURCHASABLE]

NOT_PURCHASABLE = 'NOT_PURCHASABLE'

PURCHASABLE = 'PURCHASABLE'

```

to_dict()
    Returns the model properties as a dict

```

```

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.isp.stage module

class ask_smapi_model.v1.isp.stage.Stage

Bases: `enum.Enum`

Stage of in-skill product.

Allowed enum values: [development, live]

development = 'development'

live = 'live'

```

to_dict()
    Returns the model properties as a dict

```

```

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.isp.status module

class ask_smapi_model.v1.isp.status.**Status**

Bases: `enum.Enum`

Current status of in-skill product.

Allowed enum values: [INCOMPLETE, COMPLETE, CERTIFICATION, PUBLISHED, SUPPRESSED]

CERTIFICATION = 'CERTIFICATION'

COMPLETE = 'COMPLETE'

INCOMPLETE = 'INCOMPLETE'

PUBLISHED = 'PUBLISHED'

SUPPRESSED = 'SUPPRESSED'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.isp.subscription_information module

class ask_smapi_model.v1.isp.subscription_information.**SubscriptionInformation** (*subscription_paym*

sub-

scrip-

tion_trial_period_

Bases: `object`

Defines the structure for in-skill product subscription information.

Parameters

- **subscription_payment_frequency** (*optional*)
ask_smapi_model.v1.isp.subscription_payment_frequency.
SubscriptionPaymentFrequency) –
- **subscription_trial_period_days** (*optional*) *int* – Days of free trial period for subscription. Max allowed is 365 days.

attribute_map = {'subscription_payment_frequency': 'subscriptionPaymentFrequency', 's

deserialized_types = {'subscription_payment_frequency': 'ask_smapi_model.v1.isp.subsc

supports_multiple_types = **False**

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.isp.subscription_payment_frequency module

class ask_smapi_model.v1.isp.subscription_payment_frequency.**SubscriptionPaymentFrequency**

Bases: `enum.Enum`

The frequency in which payments are collected for the subscription.

Allowed enum values: [MONTHLY, YEARLY]

MONTHLY = 'MONTHLY'

YEARLY = 'YEARLY'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.isp.summary_marketplace_pricing module

class ask_smapi_model.v1.isp.summary_marketplace_pricing.**SummaryMarketplacePricing** (*release_date*, *default_price*)

Bases: `object`

Localized in-skill product pricing information.

Parameters

- **release_date** (*optional* *datetime*) – Date when in-skill product is available to customers for both purchase and use. Prior to this date the in-skill product will appear unavailable to customers and will not be purchasable.
- **default_price_listing** (*optional* `ask_smapi_model.v1.isp.summary_price_listing.SummaryPriceListing`) –

attribute_map = {'default_price_listing': 'defaultPriceListing', 'release_date': 're

deserialized_types = {'default_price_listing': 'ask_smapi_model.v1.isp.summary_price_

supports_multiple_types = **False**

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.isp.summary_price_listing module

class ask_smapi_model.v1.isp.summary_price_listing.**SummaryPriceListing** (*price=None*, *prime_member_price=None*, *currency=None*)

Bases: `object`

Price listing information for in-skill product.

Parameters

- **price** (*optional* *float*) – The price of an in-skill product.
- **prime_member_price** (*optional* *float*) – The prime price of an in-skill product.

```

    • currency ((optional) ask_smapi_model.v1.isp.currency.Currency)
    -
attribute_map = {'currency': 'currency', 'price': 'price', 'prime_member_price': 'p
deserialized_types = {'currency': 'ask_smapi_model.v1.isp.currency.Currency', 'price'
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.isp.tax_information module

```

class ask_smapi_model.v1.isp.tax_information.TaxInformation (category=None)
    Bases: object
    Defines the structure for in-skill product tax information.

    Parameters category ((optional) ask_smapi_model.v1.isp.
        tax_information_category.TaxInformationCategory)-
attribute_map = {'category': 'category'}
deserialized_types = {'category': 'ask_smapi_model.v1.isp.tax_information_category.Ta
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.isp.tax_information_category module

```

class ask_smapi_model.v1.isp.tax_information_category.TaxInformationCategory
    Bases: enum.Enum
    Select tax category that best describes in-skill product. Choice will be validated during certification process.
    Allowed enum values: [SOFTWARE, STREAMING_AUDIO, STREAMING_RADIO, INFORMA-
    TION_SERVICES, VIDEO, PERIODICALS, NEWSPAPERS]
INFORMATION_SERVICES = 'INFORMATION_SERVICES'
NEWSPAPERS = 'NEWSPAPERS'
PERIODICALS = 'PERIODICALS'
SOFTWARE = 'SOFTWARE'
STREAMING_AUDIO = 'STREAMING_AUDIO'
STREAMING_RADIO = 'STREAMING_RADIO'
VIDEO = 'VIDEO'
to_dict()
    Returns the model properties as a dict

```

```
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.isp.update_in_skill_product_request module

```
class ask_smapi_model.v1.isp.update_in_skill_product_request.UpdateInSkillProductRequest(in
    Bases: object

    Parameters in_skill_product_definition ((optional) ask_smapi_model.
        v1.isp.in_skill_product_definition.InSkillProductDefinition)
        -

    attribute_map = {'in_skill_product_definition': 'inSkillProductDefinition'}
    deserialized_types = {'in_skill_product_definition': 'ask_smapi_model.v1.isp.in_skill
    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model
```

ask_smapi_model.v1.skill package

Subpackages

ask_smapi_model.v1.skill.account_linking package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_smapi_model.v1.skill.account_linking.access_token_scheme_type module

```
class ask_smapi_model.v1.skill.account_linking.access_token_scheme_type.AccessTokenSchemeType
    Bases: enum.Enum

    The type of client authentication scheme.

    Allowed enum values: [HTTP_BASIC, REQUEST_BODY_CREDENTIALS]

    HTTP_BASIC = 'HTTP_BASIC'
    REQUEST_BODY_CREDENTIALS = 'REQUEST_BODY_CREDENTIALS'

    to_dict()
        Returns the model properties as a dict
```

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.account_linking.account_linking_request` module

class `ask_smapi_model.v1.skill.account_linking.account_linking_request.AccountLinkingRequest`

Bases: `object`

The payload for creating the account linking partner.

Parameters

- **object_type** ((*optional*) `ask_smapi_model.v1.skill.account_linking.account_linking_type.AccountLinkingType`) –
- **authorization_url** ((*optional*) `str`) – The url where customers will be redirected in the companion app to enter login credentials.
- **domains** ((*optional*) `list[str]`) – The list of domains that the authorization URL will fetch content from.
- **client_id** ((*optional*) `str`) – The unique public string used to identify the client requesting for authentication.
- **scopes** ((*optional*) `list[str]`) – The list of permissions which will be requested from the skill user.
- **access_token_url** ((*optional*) `str`) – The url used for access token and token refresh requests.
- **client_secret** ((*optional*) `str`) – The client secret provided by developer.

- **access_token_scheme** *((optional) ask_smapi_model.v1.skill.account_linking.access_token_scheme_type.AccessTokenType)* –
- **default_token_expiration_in_seconds** *((optional) int)* – The time in seconds for which access token is valid. If OAuth client returns "expires_in", it will be overwrite this parameter.
- **reciprocal_access_token_url** *((optional) str)* – Optional, if your skill requires reciprocal authorization, provide this additional access token url to handle reciprocal (Alexa) authorization codes that can be exchanged for Alexa access tokens.
- **redirect_urls** *((optional) list[str])* – The list of valid urls to redirect back to, when the linking process is initiated from a third party system.
- **authorization_urls_by_platform** *((optional) list[ask_smapi_model.v1.skill.account_linking.account_linking_platform_authorization_url.AccountLinkingPlatformAuthorizationUrl])* – The list of valid authorization urls for allowed platforms to initiate account linking.

```
attribute_map = {'access_token_scheme': 'accessTokenScheme', 'access_token_url': 'ac
```

```
deserialized_types = {'access_token_scheme': 'ask_smapi_model.v1.skill.account_linking
```

```
supports_multiple_types = False
```

```
to_dict()
```

```
    Returns the model properties as a dict
```

```
to_str()
```

```
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.account_linking.account_linking_response module

```
class ask_smapi_model.v1.skill.account_linking.account_linking_response.AccountLinkingRespo
```

Bases: object

The account linking information of a skill.

Parameters

- **object_type** ((*optional*) `ask_smapi_model.v1.skill.account_linking.account_linking_type.AccountLinkingType`) –
- **authorization_url** ((*optional*) `str`) – The url where customers will be redirected in the companion app to enter login credentials.
- **domains** ((*optional*) `list[str]`) – The list of domains that the authorization URL will fetch content from.
- **client_id** ((*optional*) `str`) – The unique public string used to identify the client requesting for authentication.
- **scopes** ((*optional*) `list[str]`) – The list of permissions which will be requested from the skill user.
- **access_token_url** ((*optional*) `str`) – The url used for access token and token refresh requests.
- **access_token_scheme** ((*optional*) `ask_smapi_model.v1.skill.account_linking.access_token_scheme_type.AccessTokenType`) –
- **default_token_expiration_in_seconds** ((*optional*) `int`) – The time in seconds for which access token is valid. If OAuth client returns "expires_in", it will be overwrite this parameter.
- **redirect_urls** ((*optional*) `list[str]`) – The list of valid urls to redirect back to, when the linking process is initiated from a third party system.
- **authorization_urls_by_platform** ((*optional*) `list[ask_smapi_model.v1.skill.account_linking.account_linking_platform_authorization_url.AccountLinkingPlatformAuthorizationUrl]`) – The list of valid authorization urls for allowed platforms to initiate account linking.

```
attribute_map = {'access_token_scheme': 'accessTokenScheme', 'access_token_url': 'ac
```

```
deserialized_types = {'access_token_scheme': 'ask_smapi_model.v1.skill.account_linkin
```

```
supports_multiple_types = False
```

```
to_dict ()
```

```
    Returns the model properties as a dict
```

```
to_str ()
```

```
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.account_linking.account_linking_type module

```
class ask_smapi_model.v1.skill.account_linking.account_linking_type.AccountLinkingType
    Bases: enum.Enum
```

The type of account linking.

Allowed enum values: [AUTH_CODE, IMPLICIT]

```
AUTH_CODE = 'AUTH_CODE'
```

```
IMPLICIT = 'IMPLICIT'
```

```

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.alexa_hosted package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_info module

```

class ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_info.HostedSkillInfo(repository=None,
                                                                              run-
                                                                              time=None)

```

Bases: `object`

Parameters

- **repository** ((optional) `ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_repository_info.HostedSkillRepositoryInfo`)-
- **runtime** ((optional) `ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_runtime.HostedSkillRuntime`)-

```
attribute_map = {'repository': 'repository', 'runtime': 'runtime'}
```

```
deserialized_types = {'repository': 'ask_smapi_model.v1.skill.alexa_hosted.hosted_ski
```

```
supports_multiple_types = False
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_metadata module

```

class ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_metadata.HostedSkillMetadata(alexa_
Bases: object

```

Alexa Hosted skill's metadata

Parameters `alexa_hosted` ((optional) `ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_info.HostedSkillInfo`)-

```
attribute_map = {'alexa_hosted': 'alexaHosted'}
```

```
deserialized_types = {'alexa_hosted': 'ask_smapi_model.v1.skill.alexa_hosted.hosted_s
```

```

supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
    
```

ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_permission module

```

class ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_permission.HostedSkillPermission(p
    
```

Bases: `object`

Customer's permission about Hosted skill features.

Parameters

- **permission** ((*optional*) `ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_permission_type.HostedSkillPermissionType`)-
- **status** ((*optional*) `ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_permission_status.HostedSkillPermissionStatus`)
-
- **action_url** ((*optional*) `str`)-

```

attribute_map = {'action_url': 'actionUrl', 'permission': 'permission', 'status': '
deserialized_types = {'action_url': 'str', 'permission': 'ask_smapi_model.v1.skill.a
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
    
```

ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_permission_status module

```

class ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_permission_status.HostedSkillPerm
    
```

Bases: `enum.Enum`

Allowed enum values: [ALLOWED, NEW_USER_REGISTRATION_REQUIRED, RESOURCE_LIMIT_EXCEEDED, RATE_EXCEEDED]

```

ALLOWED = 'ALLOWED'
    
```

```

NEW_USER_REGISTRATION_REQUIRED = 'NEW_USER_REGISTRATION_REQUIRED'
    
```

```

RATE_EXCEEDED = 'RATE_EXCEEDED'
    
```

```

RESOURCE_LIMIT_EXCEEDED = 'RESOURCE_LIMIT_EXCEEDED'
    
```

```

to_dict()
    Returns the model properties as a dict
    
```

```

to_str()
    Returns the string representation of the model
    
```

ask_smapi_model.v1.skill.alexahosted.hostedskillpermission_type module

```

class ask_smapi_model.v1.skill.alexahosted.hostedskillpermission_type.HostedSkillPermissionType
    Bases: enum.Enum

    Allowed enum values: [NEW_SKILL]

    NEW_SKILL = 'NEW_SKILL'

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_smapi_model.v1.skill.alexahosted.hostedskillrepository module

```

class ask_smapi_model.v1.skill.alexahosted.hostedskillrepository.HostedSkillRepository
    Bases: enum.Enum

    Allowed enum values: [GIT]

    GIT = 'GIT'

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_smapi_model.v1.skill.alexahosted.hostedskillrepository_credentials module

```

class ask_smapi_model.v1.skill.alexahosted.hostedskillrepository_credentials.HostedSkillRepositoryCredentials
    
```

Bases: `object`

Parameters

- **username** (*optional* `str`) – AWS Access Key ID used to access hosted skill repository
- **password** (*optional* `str`) – signed AWS Credentials used to access hosted skill repository
- **expires_at** (*optional* `datetime`) – expiration time for the credentials

```

attribute_map = {'expires_at': 'expiresAt', 'password': 'password', 'username': 'username'}
    
```

```

deserialized_types = {'expires_at': 'datetime', 'password': 'str', 'username': 'str'}
    
```

```

supports_multiple_types = False
    
```

```

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.alexahosted.hosted_skill_repository_credentials_list module

```

class ask_smapi_model.v1.skill.alexahosted.hosted_skill_repository_credentials_list.HostedSkillRepositoryCredentialsList
    Bases: object

    defines the structure for the hosted skill repository credentials response

    Parameters repository_credentials ((optional) ask_smapi_model.v1.skill.alexahosted.hosted_skill_repository_credentials.HostedSkillRepositoryCredentials)-

    attribute_map = {'repository_credentials': 'repositoryCredentials'}

    deserialized_types = {'repository_credentials': 'ask_smapi_model.v1.skill.alexahosted.hosted_skill_repository_credentials.HostedSkillRepositoryCredentials'}

    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model

```

ask_smapi_model.v1.skill.alexahosted.hosted_skill_repository_credentials_request module

```

class ask_smapi_model.v1.skill.alexahosted.hosted_skill_repository_credentials_request.HostedSkillRepositoryCredentialsRequest
    Bases: object

    Parameters repository ((optional) ask_smapi_model.v1.skill.alexahosted.hosted_skill_repository_info.HostedSkillRepositoryInfo)-

    attribute_map = {'repository': 'repository'}

    deserialized_types = {'repository': 'ask_smapi_model.v1.skill.alexahosted.hosted_skill_repository_info.HostedSkillRepositoryInfo'}

    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model

```

ask_smapi_model.v1.skill.alexahosted.hosted_skill_repository_info module

```

class ask_smapi_model.v1.skill.alexahosted.hosted_skill_repository_info.HostedSkillRepositoryInfo
    Bases: object

    Alexa Hosted Skill's Repository Information

```

Parameters

- `url` ((optional) *str*)-
- `object_type` ((optional) `ask_smapi_model.v1.skill.alexahosted.hosted_skill_repository.HostedSkillRepository`)

```
attribute_map = {'object_type': 'type', 'url': 'url'}
```

```
deserialized_types = {'object_type': 'ask_smapi_model.v1.skill.alexahosted.hosted_skill_repository.HostedSkillRepository'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

`ask_smapi_model.v1.skill.alexahosted.hosted_skill_runtime` module

```
class ask_smapi_model.v1.skill.alexahosted.hosted_skill_runtime.HostedSkillRuntime
```

Bases: `enum.Enum`

Hosted skill lambda runtime

Allowed enum values: [NODE_10_X, PYTHON_3_7]

```
NODE_10_X = 'NODE_10_X'
```

```
PYTHON_3_7 = 'PYTHON_3_7'
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

`ask_smapi_model.v1.skill.beta_test` package

Subpackages

`ask_smapi_model.v1.skill.beta_test.testers` package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_smapi_model.v1.skill.beta_test.testers.invitation_status module

```
class ask_smapi_model.v1.skill.beta_test.testers.invitation_status.InvitationStatus
```

```
Bases: enum.Enum
```

```
Indicates whether the tester has accepted the invitation.
```

```
Allowed enum values: [ACCEPTED, NOT_ACCEPTED]
```

```
ACCEPTED = 'ACCEPTED'
```

```
NOT_ACCEPTED = 'NOT_ACCEPTED'
```

```
to_dict()
```

```
Returns the model properties as a dict
```

```
to_str()
```

```
Returns the string representation of the model
```

ask_smapi_model.v1.skill.beta_test.testers.list_testers_response module

```
class ask_smapi_model.v1.skill.beta_test.testers.list_testers_response.ListTestersResponse
```

```
Bases: object
```

Parameters

- **testers** ((optional) *list*[ask_smapi_model.v1.skill.beta_test.testers.tester_with_details.TesterWithDetails])–
- **is_truncated**((optional) *bool*)–
- **next_token**((optional) *str*)–

```
attribute_map = {'is_truncated': 'isTruncated', 'next_token': 'nextToken', 'testers':
```

```
deserialized_types = {'is_truncated': 'bool', 'next_token': 'str', 'testers': 'list
```

```
supports_multiple_types = False
```

```
to_dict()
```

```
Returns the model properties as a dict
```

```
to_str()
```

```
Returns the string representation of the model
```

ask_smapi_model.v1.skill.beta_test.testers.tester module

```
class ask_smapi_model.v1.skill.beta_test.testers.tester.Tester(email_id=None)
```

```
Bases: object
```

```
Parameters email_id((optional) str)– Email address of the tester.
```

```
attribute_map = {'email_id': 'emailId'}
```

```
deserialized_types = {'email_id': 'str'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

```
Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.beta_test.testers.tester_with_details module

```
class ask_smapi_model.v1.skill.beta_test.testers.tester_with_details.TesterWithDetails (email_id=None, association_date=None, is_reminder_allowed=False, invitation_status=None)
    as-
    so-
    ci-
    a-
    tion_
    is_re-
    in-
    vi-
    ta-
    tion_
```

Bases: `object`

Tester information.

Parameters

- **email_id** ((optional) *str*) – Email address of the tester.
- **association_date** ((optional) *datetime*) – Date and time when the tester is added to the beta test.
- **is_reminder_allowed** ((optional) *bool*) – Indicates whether the tester is allowed to be sent reminder.
- **invitation_status** ((optional) `ask_smapi_model.v1.skill.beta_test.testers.invitation_status.InvitationStatus`) –

```
attribute_map = {'association_date': 'associationDate', 'email_id': 'emailId', 'invitation_status': 'invitationStatus'}
```

```
deserialized_types = {'association_date': 'datetime', 'email_id': 'str', 'invitation_status': 'InvitationStatus'}
```

```
supports_multiple_types = False
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.beta_test.testers.testers_list module

```
class ask_smapi_model.v1.skill.beta_test.testers.testers_list.TestersList (testers=None)
```

Bases: `object`

List of testers.

- Parameters** **testers** ((optional) *list*[`ask_smapi_model.v1.skill.beta_test.testers.tester.Tester`]) – List of the email address of testers.

```
attribute_map = {'testers': 'testers'}
```

```
deserialized_types = {'testers': 'list[ask_smapi_model.v1.skill.beta_test.testers.tester.Tester]'}
```

```
supports_multiple_types = False
```


`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_smapi_model.v1.skill.beta_test.beta_test module

```
class ask_smapi_model.v1.skill.beta_test.beta_test.BetaTest (expiry_date=None,
status=None, feedback_email=None,
invitation_url=None, invites_remaining=None)
```

Bases: `object`

Beta test for an Alexa skill.

Parameters

- **expiry_date** (*optional* `datetime`) – Expiry date of the beta test.
- **status** (*optional* `ask_smapi_model.v1.skill.beta_test.status.Status`) –
- **feedback_email** (*optional* `str`) – Email address for providing feedback
- **invitation_url** (*optional* `str`) – Deeplinking for getting authorized to the beta test.
- **invites_remaining** (*optional* `float`) – Remaining invite count for the beta test.

```
attribute_map = {'expiry_date': 'expiryDate', 'feedback_email': 'feedbackEmail', 'invitation_url': 'invitationUrl'}
deserialized_types = {'expiry_date': 'datetime', 'feedback_email': 'str', 'invitation_url': 'str'}
supports_multiple_types = False
```

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

ask_smapi_model.v1.skill.beta_test.status module

```
class ask_smapi_model.v1.skill.beta_test.status.Status
    Bases: enum.Enum
    Status of the beta test.
    Allowed enum values: [IN_DRAFT, STARTING, RUNNING, STOPPING, ENDED]
    ENDED = 'ENDED'
    IN_DRAFT = 'IN_DRAFT'
    RUNNING = 'RUNNING'
    STARTING = 'STARTING'
    STOPPING = 'STOPPING'
    to_dict()
        Returns the model properties as a dict
    to_str()
        Returns the string representation of the model
```

ask_smapi_model.v1.skill.beta_test.test_body module

```
class ask_smapi_model.v1.skill.beta_test.test_body.TestBody (feedback_email=None)
    Bases: object
    Beta test meta-data.
        Parameters feedback_email (optional) str – Email address for providing feedback.
    attribute_map = {'feedback_email': 'feedbackEmail'}
    deserialized_types = {'feedback_email': 'str'}
    supports_multiple_types = False
    to_dict()
        Returns the model properties as a dict
    to_str()
        Returns the string representation of the model
```

ask_smapi_model.v1.skill.certification package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_smapi_model.v1.skill.certification.certification_response module

```
class ask_smapi_model.v1.skill.certification.certification_response.CertificationResponse (distrib)
```

Bases: `object`

Parameters

- **id** (*optional*) `str` – Certification Id for the skill
- **status** (*optional*) `ask_smapi_model.v1.skill.certification.certification_status.CertificationStatus` –
- **skill_submission_timestamp** (*optional*) `datetime` – Timestamp for when the skill was submitted for certification.
- **review_tracking_info** (*optional*) `ask_smapi_model.v1.skill.certification.review_tracking_info.ReviewTrackingInfo` –
- **result** (*optional*) `ask_smapi_model.v1.skill.certification.certification_result.CertificationResult` –

```
attribute_map = {'id': 'id', 'result': 'result', 'review_tracking_info': 'reviewTra
```

```
deserialized_types = {'id': 'str', 'result': 'ask_smapi_model.v1.skill.certification
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.certification.certification_result module

```
class ask_smapi_model.v1.skill.certification.certification_result.CertificationResult (distrib)
```

Bases: `object`

Structure for the result for the outcomes of certification review for the skill. Currently provides the distribution information of a skill if the certification SUCCEEDED.

Parameters **distribution_info** (*optional*) `ask_smapi_model.v1.skill.certification.distribution_info.DistributionInfo` –

```
attribute_map = {'distribution_info': 'distributionInfo'}
```

```
deserialized_types = {'distribution_info': 'ask_smapi_model.v1.skill.certification.di
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.certification.certification_status module

class ask_smapi_model.v1.skill.certification.certification_status.**CertificationStatus**

Bases: `enum.Enum`

String that specifies the current status of skill's certification Possible values are "IN_PROGRESS", "SUCCEEDED", "FAILED", and "CANCELLED"

Allowed enum values: [IN_PROGRESS, SUCCEEDED, FAILED, CANCELLED]

CANCELLED = 'CANCELLED'

FAILED = 'FAILED'

IN_PROGRESS = 'IN_PROGRESS'

SUCCEEDED = 'SUCCEEDED'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.certification.certification_summary module

class ask_smapi_model.v1.skill.certification.certification_summary.**CertificationSummary** (*id=*

sta-
tus-
skil
re-
view

Bases: `object`

Summary of the certification resource. This is a leaner view of the certification resource for the collections API.

Parameters

- **id** (*optional*) *str* – Certification Id for the skill.
- **status** (*optional*) `ask_smapi_model.v1.skill.certification.certification_status.CertificationStatus` –
- **skill_submission_timestamp** (*optional*) *datetime* – Timestamp for when the skill was submitted for certification.
- **review_tracking_info** (*optional*) `ask_smapi_model.v1.skill.certification.review_tracking_info_summary.ReviewTrackingInfoSummary` –

attribute_map = {'id': 'id', 'review_tracking_info': 'reviewTrackingInfo', 'skill_sub

deserialized_types = {'id': 'str', 'review_tracking_info': 'ask_smapi_model.v1.skill

supports_multiple_types = **False**

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.certification.distribution_info module

```
class ask_smapi_model.v1.skill.certification.distribution_info.DistributionInfo (published_countries=None, publication_failures=None)
```

Bases: `object`

The distribution information for skill where Amazon distributed the skill

Parameters

- **published_countries** (*optional*) `list[str]` – All countries where the skill was published in by Amazon.
- **publication_failures** (*optional*) `list[ask_smapi_model.v1.skill.certification.publication_failure.PublicationFailure]` –

```
attribute_map = {'publication_failures': 'publicationFailures', 'published_countries': 'publishedCountries'}
```

```
deserialized_types = {'publication_failures': 'list[ask_smapi_model.v1.skill.certification.publication_failure.PublicationFailure]'}
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.certification.estimated_update module

```
class ask_smapi_model.v1.skill.certification.estimated_update.EstimatedUpdate (original_estimated_completion_timestamp=None, revised_estimated_completion_timestamp=None, reason=None)
```

Bases: `object`

Structure for any updates to estimation completion time for certification review for the skill.

Parameters

- **original_estimated_completion_timestamp** (*optional*) `datetime` – Timestamp for originally estimated completion of certification review for the skill.
- **revised_estimated_completion_timestamp** (*optional*) `datetime` – Timestamp for originally estimated completion of certification review for the skill.
- **reason** (*optional*) `str` – Reason for updates to estimates for certification review

```
attribute_map = {'original_estimated_completion_timestamp': 'originalEstimatedCompletionTimestamp', 'revised_estimated_completion_timestamp': 'revisedEstimatedCompletionTimestamp', 'reason': 'reason'}
```

```
deserialized_types = {'original_estimated_completion_timestamp': 'datetime', 'revised_estimated_completion_timestamp': 'datetime', 'reason': 'str'}
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.certification.list_certifications_response` module

`class ask_smapi_model.v1.skill.certification.list_certifications_response.ListCertification`

Bases: `object`

List of certification summary for a skill.

Parameters

- `links` ((*optional*) `ask_smapi_model.v1.links.Links`) –
- `is_truncated` ((*optional*) `bool`) – boolean value for if the response is truncated. `isTruncated` = true if more than the assigned `maxResults` parameter value certification items are available for the skill. The results are then paginated and the remaining results can be retrieved in a similar paginated manner by using 'next' link in the `_links` or using the `nextToken` in a following request.
- `next_token` ((*optional*) `str`) – Encrypted token present when `isTruncated` is true.
- `total_count` ((*optional*) `int`) – Total number of certification results available for the skill.
- `items` ((*optional*) `list[ask_smapi_model.v1.skill.certification.certification_summary.CertificationSummary]`) – List of certifications available for a skill. The list of certifications is sorted in a default descending sort order on id field.

`attribute_map = {'is_truncated': 'isTruncated', 'items': 'items', 'links': '_links'`

`deserialized_types = {'is_truncated': 'bool', 'items': 'list[ask_smapi_model.v1.skill`

`supports_multiple_types = False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.certification.publication_failure` module

`class ask_smapi_model.v1.skill.certification.publication_failure.PublicationFailure` (*reason=Non*
coun-
tries=Non

Bases: `object`

Information about why the skill was not published in certain countries.

Parameters

- `reason` ((*optional*) `str`) – Reason why Amazon did not publish the skill in certain countries.

- **countries** (*optional* `list[str]`) – List of countries where Amazon did not publish the skill for a specific reason

```
attribute_map = {'countries': 'countries', 'reason': 'reason'}
deserialized_types = {'countries': 'list[str]', 'reason': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.certification.review_tracking_info module

```
class ask_smapi_model.v1.skill.certification.review_tracking_info.ReviewTrackingInfo(estimate
ac-
tual_com
last_upd
es-
ti-
ma-
tion_up
```

Bases: `object`

Structure for review tracking information of the skill.

Parameters

- **estimated_completion_timestamp** (*optional* `datetime`) – Timestamp for estimated completion of certification review for the skill.
- **actual_completion_timestamp** (*optional* `datetime`) – Timestamp for actual completion of certification review for the skill.
- **last_updated** (*optional* `datetime`) – Timestamp for when the last update was made to review tracking info.
- **estimation_updates** (*optional* `list[ask_smapi_model.v1.skill.certification.estimation_update.EstimationUpdate]`) – List of updates to estimation completion time for certification review for the skill.

```
attribute_map = {'actual_completion_timestamp': 'actualCompletionTimestamp', 'estimate
deserialized_types = {'actual_completion_timestamp': 'datetime', 'estimated_completi
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.certification.review_tracking_info_summary module

class ask_smapi_model.v1.skill.certification.review_tracking_info_summary.**ReviewTrackingInfoSummary**

Bases: `object`

Structure for summarised view of review tracking information of the skill. This does not have the `estimationUpdates` array field.

Parameters

- **estimated_completion_timestamp** (*optional* `datetime`) – Timestamp for estimated completion of certification review for the skill.
- **actual_completion_timestamp** (*optional* `datetime`) – Timestamp for actual completion of certification review workflow for the skill.
- **last_updated** (*optional* `datetime`) – Timestamp for when the last update was made to review tracking info.

attribute_map = {'actual_completion_timestamp': 'actualCompletionTimestamp', 'estimated_completion_timestamp': 'estimatedCompletionTimestamp'}

deserialized_types = {'actual_completion_timestamp': 'datetime', 'estimated_completion_timestamp': 'datetime'}

supports_multiple_types = `False`

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_smapi_model.v1.skill.evaluations package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_smapi_model.v1.skill.evaluations.confirmation_status_type module

class ask_smapi_model.v1.skill.evaluations.confirmation_status_type.**ConfirmationStatusType**

Bases: `enum.Enum`

An enumeration indicating whether the user has explicitly confirmed or denied the entire intent. Possible values: `'NONE'`, `'CONFIRMED'`, `'DENIED'`.

Allowed enum values: [NONE, CONFIRMED, DENIED]

CONFIRMED = 'CONFIRMED'

DENIED = 'DENIED'


```
NONE = 'NONE'
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.evaluations.dialog_act module

```
class ask_smapi_model.v1.skill.evaluations.dialog_act.DialogAct(object_type=None,
                                                                tar-
                                                                get_slot=None)
```

Bases: `object`

A representation of question prompts to the user for multi-turn, which requires user to fill a slot value, or confirm a slot value, or confirm an intent.

Parameters

- **object_type** (*optional*) `ask_smapi_model.v1.skill.evaluations.dialog_act_type.DialogActType`–
- **target_slot** (*optional*) `str`– The name of the target slot that needs to be filled or confirmed for a `dialogAct`

```
attribute_map = {'object_type': 'type', 'target_slot': 'targetSlot'}
```

```
deserialized_types = {'object_type': 'ask_smapi_model.v1.skill.evaluations.dialog_act_
```

```
supports_multiple_types = False
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.evaluations.dialog_act_type module

```
class ask_smapi_model.v1.skill.evaluations.dialog_act_type.DialogActType
```

Bases: `enum.Enum`

Allowed enum values: [`Dialog_ElicitSlot`, `Dialog_ConfirmSlot`, `Dialog_ConfirmIntent`]

```
Dialog_ConfirmIntent = 'Dialog.ConfirmIntent'
```

```
Dialog_ConfirmSlot = 'Dialog.ConfirmSlot'
```

```
Dialog_ElicitSlot = 'Dialog.ElicitSlot'
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.evaluations.intent module

```
class ask_smapi_model.v1.skill.evaluations.intent.Intent (name=None, confirmation_status=None, slots=None)
```

Bases: object

Parameters

- **name** (*optional str*) –
- **confirmation_status** (*optional ask_smapi_model.v1.skill.evaluations.confirmation_status_type.ConfirmationStatusType*) –
- **slots** (*optional dict(str, ask_smapi_model.v1.skill.evaluations.slot.Slot)*) – A map of key-value pairs that further describes what the user meant based on a predefined intent schema. The map can be empty.

```
attribute_map = {'confirmation_status': 'confirmationStatus', 'name': 'name', 'slots': 'slots'}
```

```
deserialized_types = {'confirmation_status': 'ask_smapi_model.v1.skill.evaluations.confirmation_status_type.ConfirmationStatusType'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.evaluations.multi_turn module

```
class ask_smapi_model.v1.skill.evaluations.multi_turn.MultiTurn (dialog_act=None, token=None, prompt=None)
```

Bases: object

Included when the selected intent has dialog defined and the dialog is not completed. To continue the dialog, provide the value of the token in the multiTurnToken field in the next request.

Parameters

- **dialog_act** (*optional ask_smapi_model.v1.skill.evaluations.dialog_act.DialogAct*) –
- **token** (*optional str*) – Opaque string which contains multi-turn related context.
- **prompt** (*optional str*) – A sample prompt defined in the dialog model for each DialogAct.

```
attribute_map = {'dialog_act': 'dialogAct', 'prompt': 'prompt', 'token': 'token'}
```

```
deserialized_types = {'dialog_act': 'ask_smapi_model.v1.skill.evaluations.dialog_act_type.DialogActType'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.evaluations.profile_nlu_request module

class ask_smapi_model.v1.skill.evaluations.profile_nlu_request.**ProfileNluRequest** (*utterance=No*
multi_turn_to)

Bases: object

Parameters

- **utterance** (*optional*) *str* – Actual representation of user input to Alexa.
- **multi_turn_token** (*optional*) *str* – Opaque string which contains multi-turn related context.

attribute_map = {'multi_turn_token': 'multiTurnToken', 'utterance': 'utterance'}

deserialized_types = {'multi_turn_token': 'str', 'utterance': 'str'}

supports_multiple_types = False

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_smapi_model.v1.skill.evaluations.profile_nlu_response module

class ask_smapi_model.v1.skill.evaluations.profile_nlu_response.**ProfileNluResponse** (*session_en*
se-
lected_inte
con-
sid-
ered_inten
multi_turn)

Bases: object

Parameters

- **session_ended** (*optional*) *bool* – Represents when an utterance results in the skill exiting. It would be true when NLU selects IP ExitAppIntent or GoHomeIntent, and false otherwise.
- **selected_intent** (*optional*) ask_smapi_model.v1.skill.evaluations.profile_nlu_selected_intent.ProfileNluSelectedIntent) –
- **considered_intents** (*optional*) *list*[ask_smapi_model.v1.skill.evaluations.intent.Intent]) – All intents that Alexa considered for the utterance in the request, but did not select.
- **multi_turn** (*optional*) ask_smapi_model.v1.skill.evaluations.multi_turn.MultiTurn) –

attribute_map = {'considered_intents': 'consideredIntents', 'multi_turn': 'multiTurn

deserialized_types = {'considered_intents': 'list[ask_smapi_model.v1.skill.evaluation

supports_multiple_types = False

to_dict ()

Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.evaluations.profile_nlu_selected_intent` module

`class ask_smapi_model.v1.skill.evaluations.profile_nlu_selected_intent.ProfileNluSelectedIntent`

Bases: `ask_smapi_model.v1.skill.evaluations.intent.Intent`

The intent that Alexa selected for the utterance in the request.

Parameters

- **name** (*optional str*) –
- **confirmation_status** (*optional ask_smapi_model.v1.skill.evaluations.confirmation_status_type.ConfirmationStatusType*) –
- **slots** (*optional dict(str, ask_smapi_model.v1.skill.evaluations.slot.Slot)*) – A map of key-value pairs that further describes what the user meant based on a predefined intent schema. The map can be empty.

`attribute_map = {'confirmation_status': 'confirmationStatus', 'name': 'name', 'slots': 'slots'}`

`deserialized_types = {'confirmation_status': 'ask_smapi_model.v1.skill.evaluations.confirmation_status_type.ConfirmationStatusType', 'name': 'str', 'slots': 'ask_smapi_model.v1.skill.evaluations.slot.Slot'}`

`supports_multiple_types = False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.evaluations.resolutions_per_authority_items` module

`class ask_smapi_model.v1.skill.evaluations.resolutions_per_authority_items.ResolutionsPerAuthorityItem`

Bases: `object`

Parameters

- **authority** (*optional str*) – The name of the authority for the slot values. For custom slot types, this authority label incorporates your skill ID and the slot type name.
- **status** (*optional ask_smapi_model.v1.skill.evaluations.resolutions_per_authority_status.ResolutionsPerAuthorityStatus*) –

- **values** `((optional) list[ask_smapi_model.v1.skill.evaluations.resolutions_per_authority_value_items.ResolutionsPerAuthorityValueItems])` – An array of resolved values for the slot.

```
attribute_map = {'authority': 'authority', 'status': 'status', 'values': 'values'}
deserialized_types = {'authority': 'str', 'status': 'ask_smapi_model.v1.skill.evaluations.resolutions_per_authority_status_code.ResolutionsPerAuthorityStatusCode', 'values': 'ask_smapi_model.v1.skill.evaluations.resolutions_per_authority_value_items.ResolutionsPerAuthorityValueItems'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.evaluations.resolutions_per_authority_status module

```
class ask_smapi_model.v1.skill.evaluations.resolutions_per_authority_status.ResolutionsPerAuthorityStatusCode
    Bases: object
```

An object representing the status of entity resolution for the slot.

Parameters code `((optional) ask_smapi_model.v1.skill.evaluations.resolutions_per_authority_status_code.ResolutionsPerAuthorityStatusCode)` –

```
attribute_map = {'code': 'code'}
deserialized_types = {'code': 'ask_smapi_model.v1.skill.evaluations.resolutions_per_authority_status_code.ResolutionsPerAuthorityStatusCode'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.evaluations.resolutions_per_authority_status_code module

```
class ask_smapi_model.v1.skill.evaluations.resolutions_per_authority_status_code.ResolutionsPerAuthorityStatusCode
    Bases: enum.Enum
```

A code indicating the results of attempting to resolve the user utterance against the defined slot types. This can be one of the following: ER_SUCCESS_MATCH: The spoken value matched a value or synonym explicitly defined in your custom slot type. ER_SUCCESS_NO_MATCH: The spoken value did not match any values or synonyms explicitly defined in your custom slot type. ER_ERROR_TIMEOUT: An error occurred due to a timeout. ER_ERROR_EXCEPTION: An error occurred due to an exception during processing.

Allowed enum values: [ER_SUCCESS_MATCH, ER_SUCCESS_NO_MATCH, ER_ERROR_TIMEOUT, ER_ERROR_EXCEPTION]

```
ER_ERROR_EXCEPTION = 'ER_ERROR_EXCEPTION'
ER_ERROR_TIMEOUT = 'ER_ERROR_TIMEOUT'
ER_SUCCESS_MATCH = 'ER_SUCCESS_MATCH'
ER_SUCCESS_NO_MATCH = 'ER_SUCCESS_NO_MATCH'
```

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.evaluations.resolutions_per_authority_value_items` module

class `ask_smapi_model.v1.skill.evaluations.resolutions_per_authority_value_items.Resolution`

Bases: `object`

An object representing the resolved value for the slot, based on the user's utterance and the slot type definition.

Parameters

- **name** (*optional* `str`) – The string for the resolved slot value.
- **id** (*optional* `str`) – The unique ID defined for the resolved slot value. This is based on the IDs defined in the slot type definition.

`attribute_map = {'id': 'id', 'name': 'name'}`

`deserialized_types = {'id': 'str', 'name': 'str'}`

`supports_multiple_types = False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.evaluations.slot` module

class `ask_smapi_model.v1.skill.evaluations.slot.Slot` (*name=None, value=None, confirmation_status=None, resolutions=None*)

Bases: `object`

Parameters

- **name** (*optional* `str`) –
- **value** (*optional* `str`) –
- **confirmation_status** (*optional* `ask_smapi_model.v1.skill.evaluations.confirmation_status_type.ConfirmationStatusType`) –
- **resolutions** (*optional* `ask_smapi_model.v1.skill.evaluations.slot_resolutions.SlotResolutions`) –

`attribute_map = {'confirmation_status': 'confirmationStatus', 'name': 'name', 'resol`

`deserialized_types = {'confirmation_status': 'ask_smapi_model.v1.skill.evaluations.co`

`supports_multiple_types = False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

ask_smapi_model.v1.skill.evaluations.slot_resolutions module

class `ask_smapi_model.v1.skill.evaluations.slot_resolutions.SlotResolutions` (*resolutions_per_auth*)
Bases: `object`

A resolutions object representing the results of resolving the words captured from the user's utterance.

Parameters `resolutions_per_authority` (*(optional)*)
`list[ask_smapi_model.v1.skill.evaluations.resolutions_per_authority_items.ResolutionsPerAuthorityItems]` – An array of objects representing each possible authority for entity resolution. An authority represents the source for the data provided for the slot. For a custom slot type, the authority is the slot type you defined.

`attribute_map = {'resolutions_per_authority': 'resolutionsPerAuthority'}`

`deserialized_types = {'resolutions_per_authority': 'list[ask_smapi_model.v1.skill.eva`

`supports_multiple_types = False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

ask_smapi_model.v1.skill.history package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_smapi_model.v1.skill.history.confidence module

class `ask_smapi_model.v1.skill.history.confidence.Confidence` (*bin=None*)
Bases: `object`

The hypothesized confidence for this interaction.

Parameters `bin` (*(optional)*) `ask_smapi_model.v1.skill.history.confidence_bin.ConfidenceBin`–

`attribute_map = {'bin': 'bin'}`

`deserialized_types = {'bin': 'ask_smapi_model.v1.skill.history.confidence_bin.Confide`

`supports_multiple_types = False`

```

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.history.confidence_bin module

```

class ask_smapi_model.v1.skill.history.confidence_bin.ConfidenceBin
    Bases: enum.Enum

    Intent confidence bin for this utterance. * HIGH:: Intent was recognized with high confidence. *
    MEDIUM:: Intent was recognized with medium confidence. * LOW:: Intent was
    recognized with low confidence. Note: Low confidence intents are not sent to the skill.

    Allowed enum values: [HIGH, MEDIUM, LOW]

    HIGH = 'HIGH'
    LOW = 'LOW'
    MEDIUM = 'MEDIUM'

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model

```

ask_smapi_model.v1.skill.history.dialog_act module

```

class ask_smapi_model.v1.skill.history.dialog_act.DialogAct (name=None)
    Bases: object

    The dialog act used in the interaction.

    Parameters name ((optional) ask_smapi_model.v1.skill.history.
        dialog_act_name.DialogActName) –

    attribute_map = {'name': 'name'}
    deserialized_types = {'name': 'ask_smapi_model.v1.skill.history.dialog_act_name.DialogActName'}
    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model

```

ask_smapi_model.v1.skill.history.dialog_act_name module

```

class ask_smapi_model.v1.skill.history.dialog_act_name.DialogActName
    Bases: enum.Enum

    Dialog act directive name. * Dialog.ElicitSlot:: Alexa asked the user for the value of a
    specific slot. (https://developer.amazon.com/docs/custom-skills/dialog-interface-reference.html#elicitslot) *
    Dialog.ConfirmSlot:: Alexa confirmed the value of a specific slot before continuing with

```


the dialog. (<https://developer.amazon.com/docs/custom-skills/dialog-interface-reference.html#confirmslot>) *
`Dialog.ConfirmIntent`; Alexa confirmed the all the information the user has provided for the intent before the skill took action. (<https://developer.amazon.com/docs/custom-skills/dialog-interface-reference.html#confirmintent>)

Allowed enum values: [Dialog_ElicitSlot, Dialog_ConfirmSlot, Dialog_ConfirmIntent]

```
Dialog_ConfirmIntent = 'Dialog.ConfirmIntent'
```

```
Dialog_ConfirmSlot = 'Dialog.ConfirmSlot'
```

```
Dialog_ElicitSlot = 'Dialog.ElicitSlot'
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.history.intent module

```
class ask_smapi_model.v1.skill.history.intent.Intent (name=None, confidence=None, slots=None)
```

Bases: object

Provides the intent name, slots and confidence of the intent used in this interaction.

Parameters

- **name** ((optional) str) – The hypothesized intent for this utterance.
- **confidence** ((optional) ask_smapi_model.v1.skill.history.confidence.Confidence) –
- **slots** ((optional) dict(str, ask_smapi_model.v1.skill.history.slot.Slot)) – The hypothesized slot(s) for this interaction.

```
attribute_map = {'confidence': 'confidence', 'name': 'name', 'slots': 'slots'}
```

```
deserialized_types = {'confidence': 'ask_smapi_model.v1.skill.history.confidence.Confidence'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.history.intent_confidence_bin module

```
class ask_smapi_model.v1.skill.history.intent_confidence_bin.IntentConfidenceBin
```

Bases: enum.Enum

A filter used to retrieve items where the intent confidence bin is equal to the given value. * `HIGH`; Intent was recognized with high confidence. * `MEDIUM`; Intent was recognized with medium confidence. * `LOW`; Intent was recognized with low confidence. Note: Low confidence intents are not sent to the skill.

Allowed enum values: [HIGH, MEDIUM, LOW]

```
HIGH = 'HIGH'
```

```

LOW = 'LOW'
MEDIUM = 'MEDIUM'
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.history.intent_request module

```

class ask_smapi_model.v1.skill.history.intent_request.IntentRequest (dialog_act=None,
                                                                    intent=None,
                                                                    interaction_type=None,
                                                                    locale=None,
                                                                    publication_status=None,
                                                                    stage=None,
                                                                    utterance_text=None)

```

Bases: object

Parameters

- **dialog_act** ((optional) ask_smapi_model.v1.skill.history.dialog_act.DialogAct)–
- **intent** ((optional) ask_smapi_model.v1.skill.history.intent.Intent)–
- **interaction_type** ((optional) ask_smapi_model.v1.skill.history.interaction_type.InteractionType)–
- **locale** ((optional) ask_smapi_model.v1.skill.history.intent_request_locales.IntentRequestLocales)–
- **publication_status** ((optional) ask_smapi_model.v1.skill.history.publication_status.PublicationStatus)–
- **stage** ((optional) ask_smapi_model.v1.stage_type.StageType)–
- **utterance_text** ((optional) str)– The transcribed user speech.

```

attribute_map = {'dialog_act': 'dialogAct', 'intent': 'intent', 'interaction_type':
deserialized_types = {'dialog_act': 'ask_smapi_model.v1.skill.history.dialog_act.Dial
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.history.intent_request_locales module

class ask_smapi_model.v1.skill.history.intent_request_locales.**IntentRequestLocales**

Bases: `enum.Enum`

Skill locale in which this interaction occurred.

Allowed enum values: [en_US, en_GB, en_IN, en_CA, en_AU, de_DE, ja_JP]

de_DE = 'de-DE'

en_AU = 'en-AU'

en_CA = 'en-CA'

en_GB = 'en-GB'

en_IN = 'en-IN'

en_US = 'en-US'

ja_JP = 'ja-JP'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.history.intent_requests module

class ask_smapi_model.v1.skill.history.intent_requests.**IntentRequests** (*links=None, next_token=None, is_truncated=None, total_count=None, start_index=None, skill_id=None, items=None*)

Bases: `object`

Response to the GET Intent Request History API. It contains the collection of utterances for the skill, nextToken and other metadata related to the search query.

Parameters

- **links** (*optional*) `ask_smapi_model.v1.links.Links` –
- **next_token** (*optional*) `str` – This token can be used to load the next page of the result.
- **is_truncated** (*optional*) `bool` – This property is true when all the results matching the search request haven't been returned, false otherwise.
- **total_count** (*optional*) `float` – Total number of records that matched the given search query.
- **start_index** (*optional*) `float` – Position of the current page in the result set.
- **skill_id** (*optional*) `str` – The Skill Id.
- **items** (*optional*) `list[ask_smapi_model.v1.skill.history.intent_request.IntentRequest]` – List of intent requests for the skill

```
attribute_map = {'is_truncated': 'isTruncated', 'items': 'items', 'links': '_links'}
deserialized_types = {'is_truncated': 'bool', 'items': 'list[ask_smapi_model.v1.skill.history.interaction_type.InteractionType]'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.history.interaction_type module

```
class ask_smapi_model.v1.skill.history.interaction_type.InteractionType
```

Bases: `enum.Enum`

Indicates if the utterance was executed as a "ONE_SHOT" interaction or "MODAL" interaction. * `ONE_SHOT`:: The user invokes the skill and states their intent in a single phrase. * `MODAL`:: The user first invokes the skill and then states their intent.

Allowed enum values: [`ONE_SHOT`, `MODAL`]

```
MODAL = 'MODAL'
```

```
ONE_SHOT = 'ONE_SHOT'
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.history.locale_in_query module

```
class ask_smapi_model.v1.skill.history.locale_in_query.LocaleInQuery
```

Bases: `enum.Enum`

A filter used to retrieve items where the locale is equal to the given value.

Allowed enum values: [`en_US`, `en_GB`, `en_IN`, `en_CA`, `en_AU`, `de_DE`, `ja_JP`]

```
de_DE = 'de-DE'
```

```
en_AU = 'en-AU'
```

```
en_CA = 'en-CA'
```

```
en_GB = 'en-GB'
```

```
en_IN = 'en-IN'
```

```
en_US = 'en-US'
```

```
ja_JP = 'ja-JP'
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.history.publication_status module

```
class ask_smapi_model.v1.skill.history.publication_status.PublicationStatus
```

```
Bases: enum.Enum
```

The publication status of the skill when this interaction occurred

Allowed enum values: [Development, Certification]

```
Certification = 'Certification'
```

```
Development = 'Development'
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.history.slot module

```
class ask_smapi_model.v1.skill.history.slot.Slot (name=None)
```

```
Bases: object
```

Parameters *name* (*optional*) *str* – Name of the slot that was used in this interaction.

```
attribute_map = {'name': 'name'}
```

```
deserialized_types = {'name': 'str'}
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.history.sort_field_for_intent_request_type module

```
class ask_smapi_model.v1.skill.history.sort_field_for_intent_request_type.SortFieldForIntentRequestType
```

```
Bases: enum.Enum
```

Allowed enum values: [recordCount, intent_name, intent_confidence_bin, stage, dialogAct_name, locale, utteranceText, publicationStatus, interactionType]

```
dialogAct_name = 'dialogAct.name'
```

```
intent_confidence_bin = 'intent.confidence.bin'
```

```
intent_name = 'intent.name'
```

```
interactionType = 'interactionType'
```

```
locale = 'locale'
```

```
publicationStatus = 'publicationStatus'
```

```
recordCount = 'recordCount'
```

```
stage = 'stage'
```

```
to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

utteranceText = 'utteranceText'
```

ask_smapi_model.v1.skill.interaction_model package

Subpackages

ask_smapi_model.v1.skill.interaction_model.catalog package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_smapi_model.v1.skill.interaction_model.catalog.catalog_definition_output module

```
class ask_smapi_model.v1.skill.interaction_model.catalog.catalog_definition_output.CatalogDefinitionOutput
```

Bases: `object`

Catalog request definitions.

Parameters

- **catalog** ((*optional*) `ask_smapi_model.v1.skill.interaction_model.catalog.catalog_entity.CatalogEntity`) –
- **creation_time** ((*optional*) `str`) – Time of the catalog definition creation.
- **total_versions** ((*optional*) `str`) – Total number of versions.

```
attribute_map = {'catalog': 'catalog', 'creation_time': 'creationTime', 'total_versions': 'totalVersions'}
```

```
deserialized_types = {'catalog': 'ask_smapi_model.v1.skill.interaction_model.catalog.catalog_entity.CatalogEntity'}
```

```
supports_multiple_types = False
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.interaction_model.catalog.catalog_entity module

class ask_smapi_model.v1.skill.interaction_model.catalog.catalog_entity.**CatalogEntity** (*name=*
de-
scrip-
tion=None)

Bases: `object`

Definition for catalog entity.

Parameters

- **name** (*optional str*) – Name of the catalog.
- **description** (*optional str*) – Description string about the catalog.

attribute_map = {'description': 'description', 'name': 'name'}

deserialized_types = {'description': 'str', 'name': 'str'}

supports_multiple_types = `False`

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_smapi_model.v1.skill.interaction_model.catalog.catalog_input module

class ask_smapi_model.v1.skill.interaction_model.catalog.catalog_input.**CatalogInput** (*name=None*,
de-
scrip-
tion=None)

Bases: `object`

Definition for catalog input.

Parameters

- **name** (*optional str*) – Name of the catalog.
- **description** (*optional str*) – Description string about the catalog.

attribute_map = {'description': 'description', 'name': 'name'}

deserialized_types = {'description': 'str', 'name': 'str'}

supports_multiple_types = `False`

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_smapi_model.v1.skill.interaction_model.catalog.catalog_item module

```
class ask_smapi_model.v1.skill.interaction_model.catalog.catalog_item.CatalogItem(name=None,
de-
scrip-
tion=None,
cat-
a-
log_id=None,
links=None)
```

Bases: `object`

Definition for catalog entity.

Parameters

- **name** (*optional* `str`) – Name of the catalog.
- **description** (*optional* `str`) – Description string about the catalog.
- **catalog_id** (*optional* `str`) – Identifier of the catalog, optional in get response as the request already has catalogId.
- **links** (*optional* `ask_smapi_model.v1.links.Links`) –

```
attribute_map = {'catalog_id': 'catalogId', 'description': 'description', 'links':
```

```
deserialized_types = {'catalog_id': 'str', 'description': 'str', 'links': 'ask_smapi
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.interaction_model.catalog.catalog_response module

```
class ask_smapi_model.v1.skill.interaction_model.catalog.catalog_response.CatalogResponse (
Bases: object
```

CatalogId information.

Parameters **catalog_id** (*optional* `str`) – ID of the catalog created.

```
attribute_map = {'catalog_id': 'catalogId'}
```

```
deserialized_types = {'catalog_id': 'str'}
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.interaction_model.catalog.catalog_status module

```

class ask_smapi_model.v1.skill.interaction_model.catalog.catalog_status.CatalogStatus (last_up
    Bases: object
    Defines the structure for catalog status response.
        Parameters last_update_request ((optional) ask_smapi_model.v1.skill.
            interaction_model.catalog.last_update_request.LastUpdateRequest)
            -
    attribute_map = {'last_update_request': 'lastUpdateRequest'}
    deserialized_types = {'last_update_request': 'ask_smapi_model.v1.skill.interaction_mo
    supports_multiple_types = False
    to_dict ()
        Returns the model properties as a dict
    to_str ()
        Returns the string representation of the model

```

ask_smapi_model.v1.skill.interaction_model.catalog.catalog_status_type module

```

class ask_smapi_model.v1.skill.interaction_model.catalog.catalog_status_type.CatalogStatusType
    Bases: enum.Enum
    Status of last modification request for a resource.
    Allowed enum values: [FAILED, IN_PROGRESS, SUCCEEDED]
    FAILED = 'FAILED'
    IN_PROGRESS = 'IN_PROGRESS'
    SUCCEEDED = 'SUCCEEDED'
    to_dict ()
        Returns the model properties as a dict
    to_str ()
        Returns the string representation of the model

```

ask_smapi_model.v1.skill.interaction_model.catalog.definition_data module

```

class ask_smapi_model.v1.skill.interaction_model.catalog.definition_data.DefinitionData (cata
    Bases: object
    Catalog request definitions.
        Parameters
            • catalog ((optional) ask_smapi_model.v1.skill.
                interaction_model.catalog.catalog_input.CatalogInput) -
            • vendor_id ((optional) str) - The vendorId that the catalog should belong to.
    attribute_map = {'catalog': 'catalog', 'vendor_id': 'vendorId'}

```

```

deserialized_types = {'catalog': 'ask_smapi_model.v1.skill.interaction_model.catalog.
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.interaction_model.catalog.last_update_request module

```
class ask_smapi_model.v1.skill.interaction_model.catalog.last_update_request.LastUpdateReq
```

Bases: `object`

Contains attributes related to last modification request of a resource.

Parameters

- **status** *((optional) ask_smapi_model.v1.skill.interaction_model.catalog.catalog_status_type.CatalogStatusType)*–
- **version** *((optional) str)*– The version id of the entity returned.
- **errors** *((optional) list[ask_smapi_model.v1.skill.standardized_error.StandardizedError])*–

```

attribute_map = {'errors': 'errors', 'status': 'status', 'version': 'version'}
deserialized_types = {'errors': 'list[ask_smapi_model.v1.skill.standardized_error.Sta
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.interaction_model.catalog.list_catalog_response module

```
class ask_smapi_model.v1.skill.interaction_model.catalog.list_catalog_response.ListCatalog
```

Bases: `object`

List of catalog versions of a skill for the vendor.

Parameters

- **links** *((optional) ask_smapi_model.v1.links.Links)*–
- **catalogs** *((optional) list[ask_smapi_model.v1.skill.interaction_model.catalog.catalog_item.CatalogItem])* – List of catalogs.
- **is_truncated** *((optional) bool)*–
- **next_token** *((optional) str)*–
- **total_count** *((optional) int)*–

```
attribute_map = {'catalogs': 'catalogs', 'is_truncated': 'isTruncated', 'links': '_
```

```
deserialized_types = {'catalogs': 'list[ask_smapi_model.v1.skill.interaction_model.ca
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.interaction_model.catalog.update_request module

```
class ask_smapi_model.v1.skill.interaction_model.catalog.update_request.UpdateRequest (name=
```

```
de-
```

```
scrip-
```

```
tion=N
```

Bases: object

Catalog update request object.

Parameters

- **name** *((optional) str)*– The catalog name.
- **description** *((optional) str)*– The catalog description with a 255 character maximum.

```
attribute_map = {'description': 'description', 'name': 'name'}
```

```
deserialized_types = {'description': 'str', 'name': 'str'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.interaction_model.version package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package a has module b with class C, you can do `from a import C` instead of `from a.b import C`.

ask_smapi_model.v1.skill.interaction_model.version.catalog_update module

```
class ask_smapi_model.v1.skill.interaction_model.version.catalog_update.CatalogUpdate (description)
    Bases: object
    Catalog update description object.

    Parameters description (optional str) – The catalog description with a 255 character
        maximum.

    attribute_map = {'description': 'description'}
    deserialized_types = {'description': 'str'}
    supports_multiple_types = False
    to_dict ()
        Returns the model properties as a dict
    to_str ()
        Returns the string representation of the model
```

ask_smapi_model.v1.skill.interaction_model.version.catalog_values module

```
class ask_smapi_model.v1.skill.interaction_model.version.catalog_values.CatalogValues (is_truncated,
next_token,
total_count,
links,
values)
    Bases: object
    List of catalog values.

    Parameters
    • is_truncated (optional bool) –
    • next_token (optional str) –
    • total_count (optional int) – Total number of catalog values.
    • links (optional ask_smapi_model.v1.links.Links) –
    • values (optional list[ask_smapi_model.v1.skill.interaction_model.version.value_schema.ValueSchema]) –

    attribute_map = {'is_truncated': 'isTruncated', 'links': '_links', 'next_token': 'nextToken'}
    deserialized_types = {'is_truncated': 'bool', 'links': 'ask_smapi_model.v1.links.Links'}
    supports_multiple_types = False
    to_dict ()
        Returns the model properties as a dict
```

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.interaction_model.version.catalog_version_data` module

class `ask_smapi_model.v1.skill.interaction_model.version.catalog_version_data.CatalogVersionData`

Bases: `object`

Catalog version data with metadata.

Parameters

- **source** ((*optional*) `ask_smapi_model.v1.skill.interaction_model.version.input_source.InputSource`) –
- **description** ((*optional*) `str`) – Description string for specific catalog version.
- **version** ((*optional*) `str`) – Specific catalog version.

`attribute_map` = {'description': 'description', 'source': 'source', 'version': 'version'}

`deserialized_types` = {'description': 'str', 'source': 'ask_smapi_model.v1.skill.interaction_model.version.input_source.InputSource'}

`supports_multiple_types` = `False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.interaction_model.version.input_source` module

class `ask_smapi_model.v1.skill.interaction_model.version.input_source.InputSource` (*object_type=*`str`, *url=None*)

Bases: `object`

Definition for catalog version input data.

Parameters

- **object_type** ((*optional*) `str`) – Type of catalog.
- **url** ((*optional*) `str`) – Url to the catalog reference.

`attribute_map` = {'object_type': 'type', 'url': 'url'}

`deserialized_types` = {'object_type': 'str', 'url': 'str'}

`supports_multiple_types` = `False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

ask_smapi_model.v1.skill.interaction_model.version.links module

```

class ask_smapi_model.v1.skill.interaction_model.version.links.Links (object_self=None)
    Bases: object

    Parameters object_self ((optional) ask_smapi_model.v1.link.Link)-

    attribute_map = {'object_self': 'self'}
    deserialized_types = {'object_self': 'ask_smapi_model.v1.link.Link'}
    supports_multiple_types = False

    to_dict ()
        Returns the model properties as a dict

    to_str ()
        Returns the string representation of the model
    
```

ask_smapi_model.v1.skill.interaction_model.version.list_response module

```

class ask_smapi_model.v1.skill.interaction_model.version.list_response.ListResponse (links=None, skill_model_versions=None, is_truncated=None, next_token=None)
    Bases: object

    List of interactionModel versions of a skill for the vendor

    Parameters

    • links ((optional) ask_smapi_model.v1.links.Links)-
    • skill_model_versions ((optional) list[ask_smapi_model.v1.skill.interaction_model.version.version_items.VersionItems])-
      List of interaction model versions.
    • is_truncated ((optional) bool)-
    • next_token ((optional) str)-

    attribute_map = {'is_truncated': 'isTruncated', 'links': '_links', 'next_token': 'nextToken'}
    deserialized_types = {'is_truncated': 'bool', 'links': 'ask_smapi_model.v1.links.Links', 'next_token': 'str'}
    supports_multiple_types = False

    to_dict ()
        Returns the model properties as a dict

    to_str ()
        Returns the string representation of the model
    
```

ask_smapi_model.v1.skill.interaction_model.version.value_schema module

```

class ask_smapi_model.v1.skill.interaction_model.version.value_schema.ValueSchema (id=None, name=None)
    Bases: object

    The value schema in type object of interaction model.

    Parameters
    
```

- **id**((*optional*) *str*)-
- **name** ((*optional*) `ask_smapi_model.v1.skill.interaction_model.version.value_schema_name.ValueSchemaName`)-

```

attribute_map = {'id': 'id', 'name': 'name'}
deserialized_types = {'id': 'str', 'name': 'ask_smapi_model.v1.skill.interaction_model.version.value_schema_name.ValueSchemaName'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
    
```

ask_smapi_model.v1.skill.interaction_model.version.value_schema_name module

```
class ask_smapi_model.v1.skill.interaction_model.version.value_schema_name.ValueSchemaName
```

Bases: `object`

Parameters

- **value**((*optional*) *str*)-
- **synonyms**((*optional*) *list[str]*)-

```

attribute_map = {'synonyms': 'synonyms', 'value': 'value'}
deserialized_types = {'synonyms': 'list[str]', 'value': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
    
```

ask_smapi_model.v1.skill.interaction_model.version.version_data module

```
class ask_smapi_model.v1.skill.interaction_model.version.version_data.VersionData(source=None, description=None)
```

Bases: `object`

Catalog version specific data.

Parameters

- **source** ((*optional*) `ask_smapi_model.v1.skill.interaction_model.version.input_source.InputSource`)-
- **description**((*optional*) *str*)- Description string for specific catalog version.

```

attribute_map = {'description': 'description', 'source': 'source'}
deserialized_types = {'description': 'str', 'source': 'ask_smapi_model.v1.skill.interaction_model.version.input_source.InputSource'}
    
```

```

supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
    
```

ask_smapi_model.v1.skill.interaction_model.version.version_items module

```

class ask_smapi_model.v1.skill.interaction_model.version.version_items.VersionItems (version=
    cre-
    ation_time
    de-
    scrip-
    tion=None
    links=None
    )
    
```

Bases: `object`

Version metadata about the entity.

Parameters

- **version** (*optional str*)–
- **creation_time** (*optional str*)–
- **description** (*optional str*)–
- **links** (*optional ask_smapi_model.v1.skill.interaction_model.version.links.Links*)–

```

attribute_map = {'creation_time': 'creationTime', 'description': 'description', 'links': 'links'}
    
```

```

deserialized_types = {'creation_time': 'str', 'description': 'str', 'links': 'ask_smapi_model.v1.skill.interaction_model.version.links.Links'}
    
```

```

supports_multiple_types = False
    
```

```

to_dict()
    Returns the model properties as a dict
    
```

```

to_str()
    Returns the string representation of the model
    
```

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_smapi_model.v1.skill.interaction_model.catalog_value_supplier module

```

class ask_smapi_model.v1.skill.interaction_model.catalog_value_supplier.CatalogValueSupplier
    Bases: ask_smapi_model.v1.skill.interaction_model.value_supplier.ValueSupplier
    Supply slot values from catalog(s).

        Parameters value_catalog ((optional) ask_smapi_model.v1.skill.interaction_model.value_catalog.ValueCatalog) –

    attribute_map = {'object_type': 'type', 'value_catalog': 'valueCatalog'}
    deserialized_types = {'object_type': 'str', 'value_catalog': 'ask_smapi_model.v1.ski
    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model

```

ask_smapi_model.v1.skill.interaction_model.delegation_strategy_type module

```

class ask_smapi_model.v1.skill.interaction_model.delegation_strategy_type.DelegationStrategyType
    Bases: enum.Enum

    Enumerates delegation strategies used to control automatic dialog management through the defined dialog
    model. When no delegation strategies are defined, the value SKILL_RESPONSE is assumed.

    Allowed enum values: [ALWAYS, SKILL_RESPONSE]

    ALWAYS = 'ALWAYS'
    SKILL_RESPONSE = 'SKILL_RESPONSE'

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model

```

ask_smapi_model.v1.skill.interaction_model.dialog module

```

class ask_smapi_model.v1.skill.interaction_model.dialog.Dialog (delegation_strategy=None, intents=None)
    Bases: object

    Defines dialog rules e.g. slot elicitation and validation, intent chaining etc.

        Parameters
        • delegation_strategy ((optional) ask_smapi_model.v1.skill.interaction_model.delegation_strategy_type.DelegationStrategyType) – Defines a delegation strategy for the dialogs in this dialog model.

```

- **intents** `((optional) list[ask_smapi_model.v1.skill.interaction_model.dialog_intents.DialogIntents])` – List of intents that have dialog rules associated with them. Dialogs can also span multiple intents.

```
attribute_map = {'delegation_strategy': 'delegationStrategy', 'intents': 'intents'}
deserialized_types = {'delegation_strategy': 'ask_smapi_model.v1.skill.interaction_model.delegation_strategy_type.DelegationStrategyType'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.interaction_model.dialog_intents module

```
class ask_smapi_model.v1.skill.interaction_model.dialog_intents.DialogIntents(name=None, delegation_strategy=None, slots=None, confirmation_required=None, prompts=None)
```

Bases: object

Parameters

- **name** `((optional) str)` – Name of the intent that has a dialog specification.
- **delegation_strategy** `((optional) ask_smapi_model.v1.skill.interaction_model.delegation_strategy_type.DelegationStrategyType)` – Defines an intent-specific delegation strategy for this dialog intent. Overrides dialog-level setting.
- **slots** `((optional) list[ask_smapi_model.v1.skill.interaction_model.dialog_slot_items.DialogSlotItems])` – List of slots that have dialog rules.
- **confirmation_required** `((optional) bool)` – Describes whether confirmation of the intent is required.
- **prompts** `((optional) ask_smapi_model.v1.skill.interaction_model.dialog_intents_prompts.DialogIntentsPrompts)` –

```
attribute_map = {'confirmation_required': 'confirmationRequired', 'delegation_strategy': 'delegationStrategy'}
deserialized_types = {'confirmation_required': 'bool', 'delegation_strategy': 'ask_smapi_model.v1.skill.interaction_model.delegation_strategy_type.DelegationStrategyType'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
```

`to_str()`
Returns the string representation of the model

ask_smapi_model.v1.skill.interaction_model.dialog_intents_prompts module

class ask_smapi_model.v1.skill.interaction_model.dialog_intents_prompts.DialogIntentsPrompts

Bases: `object`

Collection of prompts for this intent.

Parameters

- **elicitation** (*optional* `str`) – Enum value in the dialog_slots map to reference the elicitation prompt id.
- **confirmation** (*optional* `str`) – Enum value in the dialog_slots map to reference the confirmation prompt id.

`attribute_map` = {'confirmation': 'confirmation', 'elicitation': 'elicitation'}

`deserialized_types` = {'confirmation': 'str', 'elicitation': 'str'}

`supports_multiple_types` = `False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

ask_smapi_model.v1.skill.interaction_model.dialog_prompts module

class ask_smapi_model.v1.skill.interaction_model.dialog_prompts.DialogPrompts (*elicitation=None, confirmation=None*)

Bases: `object`

Dialog prompts associated with this slot i.e. for elicitation and/or confirmation.

Parameters

- **elicitation** (*optional* `str`) – Reference to a prompt-id to use If this slot value is missing.
- **confirmation** (*optional* `str`) – Reference to a prompt-id to use to confirm the slots value.

`attribute_map` = {'confirmation': 'confirmation', 'elicitation': 'elicitation'}

`deserialized_types` = {'confirmation': 'str', 'elicitation': 'str'}

`supports_multiple_types` = `False`

`to_dict()`
Returns the model properties as a dict

```
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.interaction_model.dialog_slot_items module

```
class ask_smapi_model.v1.skill.interaction_model.dialog_slot_items.DialogSlotItems (name=Non
    ob-
    ject_type=
    elic-
    i-
    ta-
    tion_requir
    con-
    fir-
    ma-
    tion_requir
    prompts=N
    val-
    i-
    da-
    tions=Non
```

Bases: `object`

Parameters

- **name** ((*optional*) `str`) – The name of the slot that has dialog rules associated with it.
- **object_type** ((*optional*) `str`) – Type of the slot in the dialog intent.
- **elicitation_required** ((*optional*) `bool`) – Describes whether elicitation of the slot is required.
- **confirmation_required** ((*optional*) `bool`) – Describes whether confirmation of the slot is required.
- **prompts** ((*optional*) `ask_smapi_model.v1.skill.interaction_model.dialog_prompts.DialogPrompts`) –
- **validations** ((*optional*) `list[ask_smapi_model.v1.skill.interaction_model.slot_validation.SlotValidation]`) – List of validations for the slot. if validation fails, user will be prompted with the provided prompt.

```
attribute_map = {'confirmation_required': 'confirmationRequired', 'elicitation_requir
```

```
deserialized_types = {'confirmation_required': 'bool', 'elicitation_required': 'bool
```

```
supports_multiple_types = False
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.interaction_model.has_entity_resolution_match module

```
class ask_smapi_model.v1.skill.interaction_model.has_entity_resolution_match.HasEntityReso:
    Bases: ask_smapi_model.v1.skill.interaction_model.slot_validation.
```

SlotValidation

The `hasEntityResolutionMatch` would allow Alexa to trigger a re-prompt when the status produced by ER is `ER_SUCCESS_NO_MATCH`.

Parameters `prompt` (*optional*) *str* – The prompt id that should be used if validation fails.

```
attribute_map = {'object_type': 'type', 'prompt': 'prompt'}
deserialized_types = {'object_type': 'str', 'prompt': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.interaction_model.intent module

```
class ask_smapi_model.v1.skill.interaction_model.intent.Intent (name=None,
                                                                slots=None,
                                                                samples=None)
```

Bases: `object`

The set of intents your service can accept and process.

Parameters

- **name** (*optional*) *str* – Name to identify the intent.
- **slots** (*optional*) *list*[`ask_smapi_model.v1.skill.interaction_model.slot_definition.SlotDefinition`] – List of slots within the intent.
- **samples** (*optional*) *list*[*str*] – Phrases the user can speak e.g. to trigger an intent or provide value for a slot elicitation.

```
attribute_map = {'name': 'name', 'samples': 'samples', 'slots': 'slots'}
deserialized_types = {'name': 'str', 'samples': 'list[str]', 'slots': 'list[ask_sma}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.interaction_model.interaction_model_data module

class ask_smapi_model.v1.skill.interaction_model.interaction_model_data.**InteractionModelData**

Bases: object

Parameters

- **version**((optional) str)-
- **description**((optional) str)-
- **interaction_model** ((optional) ask_smapi_model.v1.skill.interaction_model.interaction_model_schema.InteractionModelSchema)-

attribute_map = {'description': 'description', 'interaction_model': 'interactionModelData'}-

deserialized_types = {'description': 'str', 'interaction_model': 'ask_smapi_model.v1.skill.interaction_model.interaction_model_schema.InteractionModelSchema'}-

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.interaction_model.interaction_model_schema module

class ask_smapi_model.v1.skill.interaction_model.interaction_model_schema.**InteractionModelSchema**

Bases: object

Parameters

- **language_model** ((optional) ask_smapi_model.v1.skill.interaction_model.language_model.LanguageModel)-
- **dialog** ((optional) ask_smapi_model.v1.skill.interaction_model.dialog.Dialog)-
- **prompts** ((optional) list[ask_smapi_model.v1.skill.interaction_model.prompt.Prompt])- List of prompts.

attribute_map = {'dialog': 'dialog', 'language_model': 'languageModel', 'prompts': 'prompts'}-

deserialized_types = {'dialog': 'ask_smapi_model.v1.skill.interaction_model.dialog.Dialog', 'language_model': 'ask_smapi_model.v1.skill.interaction_model.language_model.LanguageModel', 'prompts': 'list'}-

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.interaction_model.is_greater_than` module

class `ask_smapi_model.v1.skill.interaction_model.is_greater_than.IsGreaterThan` (*prompt=None, value=None*)

Bases: `ask_smapi_model.v1.skill.interaction_model.slot_validation.SlotValidation`

Validates that slot value is greater than the specified value.

Parameters

- **prompt** (*optional* `str`) – The prompt id that should be used if validation fails.
- **value** (*optional* `str`) – Value to compare to.

`attribute_map` = {'object_type': 'type', 'prompt': 'prompt', 'value': 'value'}

`deserialized_types` = {'object_type': 'str', 'prompt': 'str', 'value': 'str'}

`supports_multiple_types` = False

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.interaction_model.is_greater_than_or_equal_to` module

class `ask_smapi_model.v1.skill.interaction_model.is_greater_than_or_equal_to.IsGreaterThan`

Bases: `ask_smapi_model.v1.skill.interaction_model.slot_validation.SlotValidation`

Validates that slot value is greater than or equals to the specified value.

Parameters

- **prompt** (*optional* `str`) – The prompt id that should be used if validation fails.
- **value** (*optional* `str`) – Value to compare to.

`attribute_map` = {'object_type': 'type', 'prompt': 'prompt', 'value': 'value'}

`deserialized_types` = {'object_type': 'str', 'prompt': 'str', 'value': 'str'}

`supports_multiple_types` = False

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

ask_smapi_model.v1.skill.interaction_model.is_in_duration module

```
class ask_smapi_model.v1.skill.interaction_model.is_in_duration.IsInDuration (prompt=None,  
start=None,  
end=None)
```

Bases: `ask_smapi_model.v1.skill.interaction_model.slot_validation.SlotValidation`

Validates that the given date or time (as a slot value) is in a given interval. Unlike other range validations, duration based validations lets the developer define a dynamic range of date or time using ISO_8601 Duration Format. Based on the given 'start' and 'end' parameters an interval is created. The slot value given by the skill's user at runtime is then validated inside this interval. Both 'start' and 'end' parameters are in reference to the current date/time. Here the current date/time refers to the date/time when the skill's user made the request.

Parameters

- **prompt** (*optional*) *str* – The prompt id that should be used if validation fails.
- **start** (*optional*) *str* –
 - `<AMAZON.DATE>`: ISO 8601 Duration using Y, M or D components or ISO 8601 Calendar Date in YYYY-MM-DD format. * `<AMAZON.TIME>`: ISO 8601 Duration using H or M component or ISO 8601 24-Hour Clock Time in hh:mm format.
- **end** (*optional*) *str* –
 - `<AMAZON.DATE>`: ISO 8601 Duration using Y, M or D components or ISO 8601 Calendar Date in YYYY-MM-DD format. * `<AMAZON.TIME>`: ISO 8601 Duration using H or M component or ISO 8601 24-Hour Clock Time in hh:mm format.

```
attribute_map = {'end': 'end', 'object_type': 'type', 'prompt': 'prompt', 'start':
```

```
deserialized_types = {'end': 'str', 'object_type': 'str', 'prompt': 'str', 'start':
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.interaction_model.is_in_set module

```
class ask_smapi_model.v1.skill.interaction_model.is_in_set.IsInSet (prompt=None,  
val-  
ues=None)
```

Bases: `ask_smapi_model.v1.skill.interaction_model.slot_validation.SlotValidation`

Validates if the slot is in the specified set of values.

Parameters

- **prompt** (*optional*) *str* – The prompt id that should be used if validation fails.
- **values** (*optional*) *list[str]* – List of values to check.

```
attribute_map = {'object_type': 'type', 'prompt': 'prompt', 'values': 'values'}
```



```

deserialized_types = {'object_type': 'str', 'prompt': 'str', 'values': 'list[str]'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.interaction_model.is_less_than module

```

class ask_smapi_model.v1.skill.interaction_model.is_less_than.IsLessThan(prompt=None,
                                value=None)
    SlotValidation

```

Validates that slot value is less than or equals to the specified value.

Parameters

- **prompt** ((optional) *str*) – The prompt id that should be used if validation fails.
- **value** ((optional) *str*) – Value to compare to.

```

attribute_map = {'object_type': 'type', 'prompt': 'prompt', 'value': 'value'}
deserialized_types = {'object_type': 'str', 'prompt': 'str', 'value': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.interaction_model.is_less_than_or_equal_to module

```

class ask_smapi_model.v1.skill.interaction_model.is_less_than_or_equal_to.IsLessThanOrEqualTo
    SlotValidation

```

Validates that slot value is less than or equals to the specified value.

Parameters

- **prompt** ((optional) *str*) – The prompt id that should be used if validation fails.
- **value** ((optional) *str*) – Value to compare to.

```

attribute_map = {'object_type': 'type', 'prompt': 'prompt', 'value': 'value'}
deserialized_types = {'object_type': 'str', 'prompt': 'str', 'value': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.interaction_model.is_not_in_duration module

```
class ask_smapi_model.v1.skill.interaction_model.is_not_in_duration.IsNotInDuration (prompt=None, start=None, end=None)
```

Bases: `ask_smapi_model.v1.skill.interaction_model.slot_validation.SlotValidation`

Validates that the given date or time (as a slot value) is not in a given interval. Unlike other range validations, duration based validations lets the developer define a dynamic range of date or time using ISO_8601 Duration Format. Based on the given 'start' and 'end' parameters an interval is created. The slot value given by the skill's user at runtime is then validated inside this interval. Both 'start' and 'end' parameters are in reference to the current date/time. Here the current date/time refers to the date/time when the skill's user made the request.

Parameters

- **prompt** (*optional*) *str* – The prompt id that should be used if validation fails.
- **start** (*optional*) *str* –
 - `<AMAZON.DATE>`: ISO 8601 Duration using Y, M or D components or ISO 8601 Calendar Date in YYYY-MM-DD format. * `<AMAZON.TIME>`: ISO 8601 Duration using H or M component or ISO 8601 24-Hour Clock Time in hh:mm format.
- **end** (*optional*) *str* –
 - `<AMAZON.DATE>`: ISO 8601 Duration using Y, M or D components or ISO 8601 Calendar Date in YYYY-MM-DD format. * `<AMAZON.TIME>`: ISO 8601 Duration using H or M component or ISO 8601 24-Hour Clock Time in hh:mm format.

```
attribute_map = {'end': 'end', 'object_type': 'type', 'prompt': 'prompt', 'start':
```

```
deserialized_types = {'end': 'str', 'object_type': 'str', 'prompt': 'str', 'start':
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.interaction_model.is_not_in_set module

```
class ask_smapi_model.v1.skill.interaction_model.is_not_in_set.IsNotInSet (prompt=None, values=None)
```

Bases: `ask_smapi_model.v1.skill.interaction_model.slot_validation.SlotValidation`

Validates if the slot is not in the specified set of values.

Parameters

- **prompt** (*optional*) *str* – The prompt id that should be used if validation fails.
- **values** (*optional*) *list[str]* – List of values to check.

```
attribute_map = {'object_type': 'type', 'prompt': 'prompt', 'values': 'values'}
```

```

deserialized_types = {'object_type': 'str', 'prompt': 'str', 'values': 'list[str]'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.interaction_model.language_model module

```

class ask_smapi_model.v1.skill.interaction_model.language_model.LanguageModel (invocation_name=
    types=None,
    in-
    tents=None,
    model_configurati

```

Bases: object

Define the language model.

Parameters

- **invocation_name** ((optional) str) – Invocation name of the skill.
- **types** ((optional) list[ask_smapi_model.v1.skill.interaction_model.slot_type.SlotType]) –
- **intents** ((optional) list[ask_smapi_model.v1.skill.interaction_model.intent.Intent]) –
- **model_configuration** ((optional) ask_smapi_model.v1.skill.interaction_model.model_configuration.ModelConfiguration) –

```

attribute_map = {'intents': 'intents', 'invocation_name': 'invocationName', 'model_c
deserialized_types = {'intents': 'list[ask_smapi_model.v1.skill.interaction_model.int
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.interaction_model.prompt module

```

class ask_smapi_model.v1.skill.interaction_model.prompt.Prompt (id=None, varia-
    tions=None)

```

Bases: object

Parameters

- **id** ((optional) str) – The prompt id, this id can be used from dialog definitions.
- **variations** ((optional) list[ask_smapi_model.v1.skill.interaction_model.prompt_items.PromptItems]) – List of variations of the prompt, each variation can be either a text string or a well defined ssml string depending on the type defined.

```

attribute_map = {'id': 'id', 'variations': 'variations'}
deserialized_types = {'id': 'str', 'variations': 'list[ask_smapi_model.v1.skill.interaction_model.prompt_items_type.PromptItemsType]'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.interaction_model.prompt_items module

```

class ask_smapi_model.v1.skill.interaction_model.prompt_items.PromptItems(object_type=None, value=None)

```

Bases: `object`

Parameters

- **object_type** ((optional) `ask_smapi_model.v1.skill.interaction_model.prompt_items_type.PromptItemsType`) –
- **value** ((optional) `str`) – Specifies the prompt.

```

attribute_map = {'object_type': 'type', 'value': 'value'}
deserialized_types = {'object_type': 'ask_smapi_model.v1.skill.interaction_model.prompt_items_type.PromptItemsType'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.interaction_model.prompt_items_type module

```

class ask_smapi_model.v1.skill.interaction_model.prompt_items_type.PromptItemsType

```

Bases: `enum.Enum`

Prompt can be specified in different formats e.g. text, ssml.

Allowed enum values: [SSML, PlainText]

```

PlainText = 'PlainText'

```

```

SSML = 'SSML'

```

```

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.interaction_model.slot_definition module

```
class ask_smapi_model.v1.skill.interaction_model.slot_definition.SlotDefinition(name=None,
                                                                              ob-
                                                                              ject_type=None,
                                                                              mul-
                                                                              ti-
                                                                              ple_values=None,
                                                                              sam-
                                                                              ples=None)
```

Bases: `object`

Slot definition.

Parameters

- **name** ((optional) *str*) – The name of the slot.
- **object_type** ((optional) *str*) – The type of the slot. It can be a built-in or custom type.
- **multiple_values** ((optional) *ask_smapi_model.v1.skill.interaction_model.multiple_values_config.MultipleValuesConfig*) – Configuration object for multiple values capturing behavior for this slot.
- **samples** ((optional) *list[str]*) – Phrases the user can speak e.g. to trigger an intent or provide value for a slot elicitation.

```
attribute_map = {'multiple_values': 'multipleValues', 'name': 'name', 'object_type':
```

```
deserialized_types = {'multiple_values': 'ask_smapi_model.v1.skill.interaction_model.
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.interaction_model.slot_type module

```
class ask_smapi_model.v1.skill.interaction_model.slot_type.SlotType(name=None,
                                                                      val-
                                                                      ues=None,
                                                                      value_supplier=None)
```

Bases: `object`

Custom slot type to define a list of possible values for a slot. Used for items that are not covered by Amazon's built-in slot types.

Parameters

- **name** ((optional) *str*) – The name of the custom slot type.
- **values** ((optional) *list[ask_smapi_model.v1.skill.interaction_model.type_value.TypeValue]*) – List of expected values. Values outside the list are still returned.

```

    • value_supplier ((optional) ask_smapi_model.v1.skill.
      interaction_model.value_supplier.ValueSupplier)–
attribute_map = {'name': 'name', 'value_supplier': 'valueSupplier', 'values': 'valu
deserialized_types = {'name': 'str', 'value_supplier': 'ask_smapi_model.v1.skill.int
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.interaction_model.slot_validation module

```

class ask_smapi_model.v1.skill.interaction_model.slot_validation.SlotValidation (object_type=None,
                                                                                   prompt=None)

```

Bases: `object`

Validation on a slot with support for prompt and confirmation.

Parameters

- **object_type** ((*optional*) *str*) – The exact type of validation e.g. `isLessThan`, `isGreaterThan` etc.
- **prompt** ((*optional*) *str*) – The prompt id that should be used if validation fails.

Note: This is an abstract class. Use the following mapping, to figure out the model class to be instantiated, that sets type variable.

hasEntityResolutionMatch: `ask_smapi_model.v1.skill.interaction_model.has_entity_resolution_match.HasEntityResolutionMatch,`

isLessThanOrEqualTo: `ask_smapi_model.v1.skill.interaction_model.is_less_than_or_equal_to.IsLessThanOrEqualTo,`

isGreaterThan:
`ask_smapi_model.v1.skill.interaction_model.is_greater_than.IsGreaterThan,`

isNotInSet:
`ask_smapi_model.v1.skill.interaction_model.is_not_in_set.IsNotInSet,`

isInDuration:
`ask_smapi_model.v1.skill.interaction_model.is_in_duration.IsInDuration,`

isLessThan:
`ask_smapi_model.v1.skill.interaction_model.is_less_than.IsLessThan,`

isNotInDuration: `ask_smapi_model.v1.skill.interaction_model.is_not_in_duration.IsNotInDuration,`

`isGreaterThanOrEqualTo`: `ask_smapi_model.v1.skill.interaction_model.is_greater_than_or_equal_to.IsGreaterThanOrEqualTo`,

`isInSet`: `ask_smapi_model.v1.skill.interaction_model.is_in_set.IsInSet`

`attribute_map` = {'object_type': 'type', 'prompt': 'prompt'}

`deserialized_types` = {'object_type': 'str', 'prompt': 'str'}

`discriminator_value_class_map` = {'hasEntityResolutionMatch': 'ask_smapi_model.v1.skill.interaction_model.has_entity_resolution_match.HasEntityResolutionMatch'}

`classmethod get_real_child_model` (*data*)

Returns the real base class specified by the discriminator

`json_discriminator_key` = 'type'

`supports_multiple_types` = False

`to_dict` ()

Returns the model properties as a dict

`to_str` ()

Returns the string representation of the model

ask_smapi_model.v1.skill.interaction_model.value_catalog module

class `ask_smapi_model.v1.skill.interaction_model.value_catalog.ValueCatalog` (*catalog_id=None, version=None*)

Bases: `object`

Catalog reference to provide values.

Parameters

- `catalog_id` (*optional*) *str* – CatalogId.
- `version` (*optional*) *str* – Catalog version.

`attribute_map` = {'catalog_id': 'catalogId', 'version': 'version'}

`deserialized_types` = {'catalog_id': 'str', 'version': 'str'}

`supports_multiple_types` = False

`to_dict` ()

Returns the model properties as a dict

`to_str` ()

Returns the string representation of the model

ask_smapi_model.v1.skill.interaction_model.value_supplier module

class `ask_smapi_model.v1.skill.interaction_model.value_supplier.ValueSupplier` (*object_type=None*)

Bases: `object`

Supplier object to provide slot values.

Parameters `object_type` ((optional) *str*) – The exact type of validation e.g. `CatalogValueSupplier` etc.

Note: This is an abstract class. Use the following mapping, to figure out the model class to be instantiated, that sets `type` variable.

`CatalogValueSupplier`: `ask_smapi_model.v1.skill.interaction_model.catalog_value_supplier.CatalogValueSupplier`,

`InlineValueSupplier`: `ask_smapi_model.v1.skill.interaction_model.inline_value_supplier.InlineValueSupplier`

```
attribute_map = {'object_type': 'type'}
deserialized_types = {'object_type': 'str'}
discriminator_value_class_map = {'CatalogValueSupplier': 'ask_smapi_model.v1.skill.in
classmethod get_real_child_model(data)
    Returns the real base class specified by the discriminator
json_discriminator_key = 'type'
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

`ask_smapi_model.v1.skill.manifest` package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

`ask_smapi_model.v1.skill.manifest.alexa_for_business_apis` module

```
class ask_smapi_model.v1.skill.manifest.alexa_for_business_apis.AlexaForBusinessApis(regions=
end-
point=N
in-
ter-
faces=N)

Bases: object
```


Defines the structure of alexaForBusiness api in the skill manifest.

Parameters

- **regions** ((optional) dict(str, ask_smapi_model.v1.skill.manifest.region.Region)) – Contains an array of the supported <region> Objects.
- **endpoint** ((optional) ask_smapi_model.v1.skill.manifest.skill_manifest_endpoint.SkillManifestEndpoint)–
- **interfaces** ((optional) list[ask_smapi_model.v1.skill.manifest.alexa_for_business_interface.AlexaForBusinessInterface]) – Contains the list of supported interfaces.

```
attribute_map = {'endpoint': 'endpoint', 'interfaces': 'interfaces', 'regions': 're
```

```
deserialized_types = {'endpoint': 'ask_smapi_model.v1.skill.manifest.skill_manifest_e
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.alexa_for_business_interface module

```
class ask_smapi_model.v1.skill.manifest.alexa_for_business_interface.AlexaForBusinessInter
```

Bases: object

Parameters

- **namespace** ((optional) str)– Name of the interface.
- **version** ((optional) ask_smapi_model.v1.skill.manifest.version.Version)–
- **requests** ((optional) list[ask_smapi_model.v1.skill.manifest.request.Request])– Contains a list of requests/messages that skill can handle.

```
attribute_map = {'namespace': 'namespace', 'requests': 'requests', 'version': 'vers
```

```
deserialized_types = {'namespace': 'str', 'requests': 'list[ask_smapi_model.v1.skill
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.alexa_presentation_apl_interface module

class ask_smapi_model.v1.skill.manifest.alexa_presentation_apl_interface.**AlexaPresentationInterface**

Bases: *ask_smapi_model.v1.skill.manifest.interface.Interface*

Used to declare that the skill uses the Alexa.Presentation.APL interface.

Parameters supported_viewports ((optional) *list[ask_smapi_model.v1.skill.manifest.viewport_specification.ViewportSpecification]*) – List of supported viewports.

attribute_map = {'object_type': 'type', 'supported_viewports': 'supportedViewports'}

deserialized_types = {'object_type': 'str', 'supported_viewports': 'list[ask_smapi_model.v1.skill.manifest.viewport_specification.ViewportSpecification]'} –

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.audio_interface module

class ask_smapi_model.v1.skill.manifest.audio_interface.**AudioInterface**

Bases: *ask_smapi_model.v1.skill.manifest.interface.Interface*

attribute_map = {'object_type': 'type'}

deserialized_types = {'object_type': 'str'}

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.connections module

class ask_smapi_model.v1.skill.manifest.connections.**Connections** (*name=None,*

payload=None,
load=None)

Bases: *object*

Skill connection object.

Parameters

- **name** ((optional) *str*) – Name of the connection.
- **payload** ((optional) *ask_smapi_model.v1.skill.manifest.connections_payload.ConnectionsPayload*) –

attribute_map = {'name': 'name', 'payload': 'payload'}

deserialized_types = {'name': 'str', 'payload': 'ask_smapi_model.v1.skill.manifest.connections_payload.ConnectionsPayload'}

supports_multiple_types = False

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.connections_payload module

class ask_smapi_model.v1.skill.manifest.connections_payload.**ConnectionsPayload** (*object_type=None, version=None*)

Bases: `object`

Payload of the connection.

Parameters

- **object_type** (*optional str*) – Type of the payload.
- **version** (*optional str*) – Version of the payload.

`attribute_map = {'object_type': 'type', 'version': 'version'}`

`deserialized_types = {'object_type': 'str', 'version': 'str'}`

`supports_multiple_types = False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.critical_data_handling module

ask_smapi_model.v1.skill.manifest.custom_apis module

class ask_smapi_model.v1.skill.manifest.custom_apis.**CustomApis** (*regions=None, endpoint=None, interfaces=None, tasks=None, connections=None*)

Bases: `object`

Defines the structure for custom api of the skill.

Parameters

- **regions** (*optional dict(str, ask_smapi_model.v1.skill.manifest.region.Region)*) – Contains an array of the supported `<region>` Objects.
- **endpoint** (*optional ask_smapi_model.v1.skill.manifest.skill_manifest_endpoint.SkillManifestEndpoint*) –
- **interfaces** (*optional list[ask_smapi_model.v1.skill.manifest.interface.Interface]*) – Defines the structure for interfaces supported by the custom api of the skill.

- **tasks** ((optional) list[ask_smapi_model.v1.skill.manifest.skill_manifest_custom_task.SkillManifestCustomTask]) – List of provided tasks.
- **connections** ((optional) ask_smapi_model.v1.skill.manifest.custom_connections.CustomConnections)–

```

attribute_map = {'connections': 'connections', 'endpoint': 'endpoint', 'interfaces':
deserialized_types = {'connections': 'ask_smapi_model.v1.skill.manifest.custom_conne
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.manifest.custom_connections module

```

class ask_smapi_model.v1.skill.manifest.custom_connections.CustomConnections (requires=None,
                                                                                   pro-
                                                                                   vides=None)

```

Bases: object

Supported connections.

Parameters

- **requires** ((optional) list[ask_smapi_model.v1.skill.manifest.connections.Connections]) – List of required connections.
- **provides** ((optional) list[ask_smapi_model.v1.skill.manifest.connections.Connections]) – List of provided connections.

```

attribute_map = {'provides': 'provides', 'requires': 'requires'}
deserialized_types = {'provides': 'list[ask_smapi_model.v1.skill.manifest.connections
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.manifest.custom_interface module

```

class ask_smapi_model.v1.skill.manifest.custom_interface.CustomInterface

```

Bases: ask_smapi_model.v1.skill.manifest.interface.Interface

Skills using Custom Interfaces can send custom directives and receive custom events from custom endpoints such as Alexa gadgets.

```

attribute_map = {'object_type': 'type'}
deserialized_types = {'object_type': 'str'}
supports_multiple_types = False

```

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.manifest.data_protection_provider` module

`ask_smapi_model.v1.skill.manifest.display_interface` module

class `ask_smapi_model.v1.skill.manifest.display_interface.DisplayInterface` (*minimum_template_version=1.0, minimum_apml_version=None*)

Bases: `ask_smapi_model.v1.skill.manifest.interface.Interface`

Used to declare that the skill uses the Display interface. When a skill declares that it uses the Display interface the Display interface will be passed in the supportedInterfaces section of devices which meet any of the required minimum version attributes specified in the manifest. If the device does not meet any of the minimum versions specified in the manifest the Display interface will not be present in the supportedInterfaces section. If neither the minimumTemplateVersion nor the minimumApmlVersion attributes are specified in the manifest then the minimumTemplateVersion is defaulted to 1.0 and apmlVersion is omitted.

Parameters

- **minimum_template_version** ((optional) `ask_smapi_model.v1.skill.manifest.display_interface_template_version.DisplayInterfaceTemplateVersion`) -
- **minimum_apml_version** ((optional) `ask_smapi_model.v1.skill.manifest.display_interface_apml_version.DisplayInterfaceApmlVersion`) -

`attribute_map` = {'minimum_apml_version': 'minimumApmlVersion', 'minimum_template_version': 'minimumTemplateVersion'}

`deserialized_types` = {'minimum_apml_version': 'ask_smapi_model.v1.skill.manifest.display_interface_apml_version.DisplayInterfaceApmlVersion'}

`supports_multiple_types` = False

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.manifest.display_interface_apml_version` module

class `ask_smapi_model.v1.skill.manifest.display_interface_apml_version.DisplayInterfaceApmlVersion`
Bases: `enum.Enum`

The minimum version of the APML specification supported by the skill. If a device does not support a version greater than or equal to the version specified here then apmlVersion will not be passed inside the Display interface in the ASK request.

Allowed enum values: `[_0_2]`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.manifest.display_interface_template_version` module

class `ask_smapi_model.v1.skill.manifest.display_interface_template_version.DisplayInterface`
Bases: `enum.Enum`

The minimum version of pre-defined templates supported by the skill. If a device does not support a version greater than or equal to the version specified her then `templateVersion` will not be passed inside the `DisplayInterface` in the ASK request.

Allowed enum values: `[_1]`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.manifest.distribution_countries` module

class `ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries`
Bases: `enum.Enum`

Allowed enum values: `[AF, AX, AL, DZ, AS, AD, AO, AI, AQ, AG, AR, AM, AW, AU, AT, AZ, BS, BH, BD, BB, BY, BE, BZ, BJ, BM, BT, BO, BA, BW, BV, BR, IO, BN, BG, BF, BI, KH, CM, CA, CV, KY, CF, TD, CL, CN, CX, CC, CO, KM, CG, CD, CK, CR, HR, CY, CZ, DK, DJ, DM, DO, EC, EG, SV, GQ, ER, EE, ET, FK, FO, FJ, FI, FR, GF, PF, TF, GA, GM, GE, DE, GH, GI, GR, GL, GD, GP, GU, GT, GG, GN, GW, GY, HT, HM, VA, HN, HK, HU, IS, IN, ID, IQ, IE, IM, IL, IT, CI, JM, JP, JE, JO, KZ, KE, KI, KR, KW, KG, LA, LV, LB, LS, LR, LY, LI, LT, LU, MO, MK, MG, MW, MY, MV, ML, MT, MH, MQ, MR, MU, YT, MX, FM, MD, MC, MN, ME, MS, MA, MZ, MM, NA, NR, NP, NL, AN, NC, NZ, NI, NE, NG, NU, NF, MP, NO, OM, PK, PW, PS, PA, PG, PY, PE, PH, PN, PL, PT, PR, QA, RE, RO, RU, RW, BL, SH, KN, LC, MF, PM, VC, WS, SM, ST, SA, SN, RS, SC, SL, SG, SK, SI, SB, SO, ZA, GS, ES, LK, SR, SJ, SZ, SE, CH, TW, TJ, TZ, TH, TL, TG, TK, TO, TT, TN, TR, TM, TC, TV, UG, UA, AE, GB, US, UM, UY, UZ, VU, VE, VN, VG, VI, WF, EH, YE, ZM, ZW]`

`AD = 'AD'`

`AE = 'AE'`

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`AQ = 'AQ'`

`AR = 'AR'`

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CI = 'CI'
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```
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UZ = 'UZ'  
VA = 'VA'
```

```

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VI = 'VI'
VN = 'VN'
VU = 'VU'
WF = 'WF'
WS = 'WS'
YE = 'YE'
YT = 'YT'
ZA = 'ZA'
ZM = 'ZM'
ZW = 'ZW'

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.manifest.distribution_mode module

```
class ask_smapi_model.v1.skill.manifest.distribution_mode.DistributionMode
```

```
Bases: enum.Enum
```

What audience the skill should be distributed to. "PUBLIC" - available to all users. Has ASIN and can be enabled. "PRIVATE" - available to entitled users. Has ASIN and can be enabled. "INTERNAL" - has no ASIN and cannot be enabled by users. Internally managed skills.

Allowed enum values: [PRIVATE, PUBLIC, INTERNAL]

```
INTERNAL = 'INTERNAL'
```

```
PRIVATE = 'PRIVATE'
```

```
PUBLIC = 'PUBLIC'
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.manifest.event_name module

```
class ask_smapi_model.v1.skill.manifest.event_name.EventName(event_name=None)
```

```
Bases: object
```

```
Parameters event_name ((optional) ask_smapi_model.v1.skill.manifest.
event_name_type.EventNameType) -
```

```

attribute_map = {'event_name': 'eventName'}
deserialized_types = {'event_name': 'ask_smapi_model.v1.skill.manifest.event_name_type'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.manifest.event_name_type module

class ask_smapi_model.v1.skill.manifest.event_name_type.**EventNameType**

Bases: `enum.Enum`

Name of the event to be subscribed to.

Allowed enum values: [SKILL_ENABLED, SKILL_DISABLED, SKILL_PERMISSION_ACCEPTED, SKILL_PERMISSION_CHANGED, SKILL_ACCOUNT_LINKED, ITEMS_CREATED, ITEMS_UPDATED, ITEMS_DELETED, LIST_CREATED, LIST_UPDATED, LIST_DELETED, ALL_LISTS_CHANGED, REMINDER_STARTED, REMINDER_CREATED, REMINDER_UPDATED, REMINDER_DELETED, REMINDER_STATUS_CHANGED, AUDIO_ITEM_PLAYBACK_STARTED, AUDIO_ITEM_PLAYBACK_FINISHED, AUDIO_ITEM_PLAYBACK_STOPPED, AUDIO_ITEM_PLAYBACK_FAILED, SKILL_PROACTIVE_SUBSCRIPTION_CHANGED, IN_SKILL_PRODUCT_SUBSCRIPTION_STARTED, IN_SKILL_PRODUCT_SUBSCRIPTION_RENEWED, IN_SKILL_PRODUCT_SUBSCRIPTION_ENDED, Legacy_ActivityManager_ActivityContextRemovedEvent, Legacy_ActivityManager_ActivityInterrupted, Legacy_ActivityManager_FocusChanged, Legacy_AlertsController_DismissCommand, Legacy_AlertsController_SnoozeCommand, Legacy_AudioPlayer_AudioStutter, Legacy_AudioPlayer_InitialPlaybackProgressReport, Legacy_AudioPlayer_Metadata, Legacy_AudioPlayer_PeriodicPlaybackProgressReport, Legacy_AudioPlayer_PlaybackError, Legacy_AudioPlayer_PlaybackFinished, Legacy_AudioPlayer_PlaybackIdle, Legacy_AudioPlayer_PlaybackInterrupted, Legacy_AudioPlayer_PlaybackNearlyFinished, Legacy_AudioPlayer_PlaybackPaused, Legacy_AudioPlayer_PlaybackResumed, Legacy_AudioPlayer_PlaybackStarted, Legacy_AudioPlayer_PlaybackStutterFinished, Legacy_AudioPlayer_PlaybackStutterStarted, Legacy_AudioPlayerGui_ButtonClickedEvent, Legacy_AudioPlayerGui_LyricsViewedEvent, Legacy_AuxController_DirectionChanged, Legacy_AuxController_EnabledStateChanged, Legacy_AuxController_InputActivityStateChanged, Legacy_AuxController_PluggedStateChanged, Legacy_BluetoothNetwork_CancelPairingMode, Legacy_BluetoothNetwork_DeviceConnectedFailure, Legacy_BluetoothNetwork_DeviceConnectedSuccess, Legacy_BluetoothNetwork_DeviceDisconnectedFailure, Legacy_BluetoothNetwork_DeviceDisconnectedSuccess, Legacy_BluetoothNetwork_DevicePairFailure, Legacy_BluetoothNetwork_DevicePairSuccess, Legacy_BluetoothNetwork_DeviceUnpairFailure, Legacy_BluetoothNetwork_DeviceUnpairSuccess, Legacy_BluetoothNetwork_EnterPairingModeFailure, Legacy_BluetoothNetwork_EnterPairingModeSuccess, Legacy_BluetoothNetwork_MediaControlFailure, Legacy_BluetoothNetwork_MediaControlSuccess, Legacy_BluetoothNetwork_ScanDevicesReport, Legacy_BluetoothNetwork_SetDeviceCategoriesFailed, Legacy_BluetoothNetwork_SetDeviceCategoriesSucceeded, Legacy_ContentManager_ContentPlaybackTerminated, Legacy_DeviceNotification_DeleteNotificationFailed, Legacy_DeviceNotification_DeleteNotificationSucceeded, Legacy_DeviceNotification_NotificationEnteredBackground, Legacy_DeviceNotification_NotificationEnteredForeground, Legacy_DeviceNotification_NotificationStarted, Legacy_DeviceNotification_NotificationStopped, Legacy_DeviceNotification_NotificationSync, Legacy_DeviceNotification_SetNotificationFailed, Legacy_DeviceNotification_SetNotificationSucceeded, Legacy_EqualizerController_EqualizerChanged, Legacy_ExternalMediaPlayer_AuthorizationComplete, Legacy_ExternalMediaPlayer_Error, Legacy_ExternalMediaPlayer_Event, Legacy_ExternalMediaPlayer_Login, Legacy_ExternalMediaPlayer_Logout, Legacy_ExternalMediaPlayer_ReportDiscoveredPlayers,

Legacy_ExternalMediaPlayer_RequestToken, Legacy_FavoritesController_Error,
 Legacy_FavoritesController_Response, Legacy_GameEngine_GameInputEvent,
 Legacy_HomeAutoWifiController_DeviceReconnected, Legacy_HomeAutoWifiController_HttpNotified,
 Legacy_HomeAutoWifiController_SsdpDiscoveryFinished, Legacy_HomeAutoWifiController_SsdpServiceDiscovered,
 Legacy_HomeAutoWifiController_SsdpServiceTerminated, Legacy_ListModel_AddItemRequest,
 Legacy_ListModel_DeleteItemRequest, Legacy_ListModel_GetPageByOrdinalRequest,
 Legacy_ListModel_GetPageByTokenRequest, Legacy_ListModel_ListStateUpdateRequest,
 Legacy_ListModel_UpdateItemRequest, Legacy_ListRenderer_GetListPageByOrdinal,
 Legacy_ListRenderer_GetListPageByToken, Legacy_ListRenderer_ListItemEvent,
 Legacy_MediaGrouping_GroupChangeNotificationEvent, Legacy_MediaGrouping_GroupChangeResponseEvent,
 Legacy_MediaGrouping_GroupSyncEvent, Legacy_MediaPlayer_PlaybackError,
 Legacy_MediaPlayer_PlaybackFinished, Legacy_MediaPlayer_PlaybackIdle,
 Legacy_MediaPlayer_PlaybackNearlyFinished, Legacy_MediaPlayer_PlaybackPaused,
 Legacy_MediaPlayer_PlaybackResumed, Legacy_MediaPlayer_PlaybackStarted,
 Legacy_MediaPlayer_PlaybackStopped, Legacy_MediaPlayer_SequenceItemsRequested,
 Legacy_MediaPlayer_SequenceModified, Legacy_MeetingClientController_Event,
 Legacy_Microphone_AudioRecording, Legacy_PhoneCallController_Event,
 Legacy_PlaybackController_ButtonCommand, Legacy_PlaybackController_LyricsViewedEvent,
 Legacy_PlaybackController_NextCommand, Legacy_PlaybackController_PauseCommand,
 Legacy_PlaybackController_PlayCommand, Legacy_PlaybackController_PreviousCommand,
 Legacy_PlaybackController_ToggleCommand, Legacy_PlaylistController_ErrorResponse,
 Legacy_PlaylistController_Response, Legacy_Presentation_PresentationDismissedEvent,
 Legacy_Presentation_PresentationUserEvent, Legacy_SceneRemoteControl_Next,
 Legacy_SceneRemoteControl_PlayPause, Legacy_SceneRemoteControl_Previous,
 Legacy_SceneRemoteControl_VolumeDown, Legacy_SceneRemoteControl_VolumeUp,
 Legacy_SipClient_Event, Legacy_SoftwareUpdate_CheckSoftwareUpdateReport,
 Legacy_SoftwareUpdate_InitiateSoftwareUpdateReport, Legacy_Speaker_MuteChanged,
 Legacy_Speaker_VolumeChanged, Legacy_SpeechRecognizer_WakeWordChanged,
 Legacy_SpeechSynthesizer_SpeechFinished, Legacy_SpeechSynthesizer_SpeechInterrupted,
 Legacy_SpeechSynthesizer_SpeechStarted, Legacy_SpeechSynthesizer_SpeechSynthesizerError,
 Legacy_Spotify_Event, Legacy_System_UserInactivity, Legacy_UDPCController_BroadcastResponse, LocalApplication_Alexa_Translation_LiveTranslation_Event,
 LocalApplication_AlexaNotifications_Event,
 LocalApplication_AlexaPlatformTestSpeechlet_Event, LocalApplication_AlexaVision_Event,
 LocalApplication_AlexaVoiceLayer_Event, LocalApplication_AvaPhysicalShopping_Event, LocalApplication_Calendar_Event,
 LocalApplication_Closet_Event, LocalApplication_Communications_Event,
 LocalApplication_DeviceMessaging_Event, LocalApplication_DigitalDash_Event, LocalApplication_FireflyShopping_Event,
 LocalApplication_Gallery_Event, LocalApplication_HHOPhotos_Event,
 LocalApplication_HomeAutomationMedia_Event, LocalApplication_KnightContacts_Event,
 LocalApplication_KnightHome_Event, LocalApplication_KnightHomeThingsToTry_Event,
 LocalApplication_LocalMediaPlayer_Event, LocalApplication_LocalVoiceUI_Event, LocalApplication_MShop_Event,
 LocalApplication_MShopPurchasing_Event, LocalApplication_NotificationsApp_Event, LocalApplication_Photos_Event, LocalApplication_Sentry_Event,
 LocalApplication_SipClient_Event, LocalApplication_SipUserAgent_Event, LocalApplication_todoRenderer_Event,
 LocalApplication_VideoExperienceService_Event, LocalApplication_WebVideoPlayer_Event, Alexa_Camera_PhotoCaptureController_CancelCaptureFailed,
 Alexa_Camera_PhotoCaptureController_CancelCaptureFinished, Alexa_Camera_PhotoCaptureController_CaptureFailed,
 Alexa_Camera_PhotoCaptureController_CaptureFinished, Alexa_Camera_VideoCaptureController_CancelCaptureFailed,
 Alexa_Camera_VideoCaptureController_CancelCaptureFinished, Alexa_Camera_VideoCaptureController_CaptureFailed,
 Alexa_Camera_VideoCaptureController_CaptureFinished, Alexa_Camera_VideoCaptureController_CaptureStarted,
 Alexa_FileManager_UploadController_CancelUploadFailed, Alexa_FileManager_UploadController_CancelUploadFinished,
 Alexa_FileManager_UploadController_UploadFailed, Alexa_FileManager_UploadController_UploadFinished,
 Alexa_FileManager_UploadController_UploadStarted, Alexa_Presentation_APL_UserEvent,
 Alexa_Presentation_HTML_Event, Alexa_Presentation_HTML_LifecycleStateChanged,
 Alexa_Presentation_PresentationDismissed, AudioPlayer_PlaybackFailed, AudioPlayer_PlaybackFinished,

```

AudioPlayer_PlaybackNearlyFinished,    AudioPlayer_PlaybackStarted,    AudioPlayer_PlaybackStopped,
CardRenderer_DisplayContentFinished,    CardRenderer_DisplayContentStarted,    CardRen-
derer_ReadContentFinished,            CardRenderer_ReadContentStarted,    CustomInterfaceCon-
troller_EventsReceived,    CustomInterfaceController_Expired,    DeviceSetup_SetupCompleted,    Dis-
play_ElementSelected,    Display_UserEvent,    FitnessSessionController_FitnessSessionEnded,    Fit-
nessSessionController_FitnessSessionError,    FitnessSessionController_FitnessSessionPaused,    Fit-
nessSessionController_FitnessSessionResumed,    FitnessSessionController_FitnessSessionStarted,
GameEngine_InputHandlerEvent,    Messaging_MessageReceived,    MessagingCon-
troller_UpdateConversationsStatus,    MessagingController_UpdateMessagesStatusRequest,    Mes-
sagingController_UpdateSendMessageStatusRequest,    MessagingController_UploadConversations,
PlaybackController_NextCommandIssued,    PlaybackController_PauseCommandIssued,    Play-
backController_PlayCommandIssued,    PlaybackController_PreviousCommandIssued,    Ef-
fectsController_RequestEffectChangeRequest,    EffectsController_RequestGuiChangeRequest,
EffectsController_StateReceiptChangeRequest,    Alexa_Video_Xray_ShowDetailsSuccessful,
Alexa_Video_Xray_ShowDetailsFailed]

```

```
ALL_LISTS_CHANGED = 'ALL_LISTS_CHANGED'
```

```
AUDIO_ITEM_PLAYBACK_FAILED = 'AUDIO_ITEM_PLAYBACK_FAILED'
```

```
AUDIO_ITEM_PLAYBACK_FINISHED = 'AUDIO_ITEM_PLAYBACK_FINISHED'
```

```
AUDIO_ITEM_PLAYBACK_STARTED = 'AUDIO_ITEM_PLAYBACK_STARTED'
```

```
AUDIO_ITEM_PLAYBACK_STOPPED = 'AUDIO_ITEM_PLAYBACK_STOPPED'
```

```
Alexa_Camera_PhotoCaptureController_CancelCaptureFailed = 'Alexa.Camera.PhotoCaptureCo
```

```
Alexa_Camera_PhotoCaptureController_CancelCaptureFinished = 'Alexa.Camera.PhotoCapture
```

```
Alexa_Camera_PhotoCaptureController_CaptureFailed = 'Alexa.Camera.PhotoCaptureControll
```

```
Alexa_Camera_PhotoCaptureController_CaptureFinished = 'Alexa.Camera.PhotoCaptureContro
```

```
Alexa_Camera_VideoCaptureController_CancelCaptureFailed = 'Alexa.Camera.VideoCaptureCo
```

```
Alexa_Camera_VideoCaptureController_CancelCaptureFinished = 'Alexa.Camera.VideoCapture
```

```
Alexa_Camera_VideoCaptureController_CaptureFailed = 'Alexa.Camera.VideoCaptureControll
```

```
Alexa_Camera_VideoCaptureController_CaptureFinished = 'Alexa.Camera.VideoCaptureContro
```

```
Alexa_Camera_VideoCaptureController_CaptureStarted = 'Alexa.Camera.VideoCaptureControl
```

```
Alexa_FileManager_UploadController_CancelUploadFailed = 'Alexa.FileManager.UploadContr
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```
Alexa_FileManager_UploadController_CancelUploadFinished = 'Alexa.FileManager.UploadCon
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```
Alexa_FileManager_UploadController_UploadFailed = 'Alexa.FileManager.UploadController.
```

```
Alexa_FileManager_UploadController_UploadFinished = 'Alexa.FileManager.UploadControlle
```

```
Alexa_FileManager_UploadController_UploadStarted = 'Alexa.FileManager.UploadController
```

```
Alexa_Presentation_APL_UserEvent = 'Alexa.Presentation.APL.UserEvent'
```

```
Alexa_Presentation_HTML_Event = 'Alexa.Presentation.HTML.Event'
```

```
Alexa_Presentation_HTML_LifecycleStateChanged = 'Alexa.Presentation.HTML.LifecycleStat
```

```
Alexa_Presentation_PresentationDismissed = 'Alexa.Presentation.PresentationDismissed'
```

```
Alexa_Video_Xray_ShowDetailsFailed = 'Alexa.Video.Xray.ShowDetailsFailed'
```

```
Alexa_Video_Xray_ShowDetailsSuccessful = 'Alexa.Video.Xray.ShowDetailsSuccessful'
```

```
AudioPlayer_PlaybackFailed = 'AudioPlayer.PlaybackFailed'
```



```
AudioPlayer_PlaybackFinished = 'AudioPlayer.PlaybackFinished'  
AudioPlayer_PlaybackNearlyFinished = 'AudioPlayer.PlaybackNearlyFinished'  
AudioPlayer_PlaybackStarted = 'AudioPlayer.PlaybackStarted'  
AudioPlayer_PlaybackStopped = 'AudioPlayer.PlaybackStopped'  
CardRenderer_DisplayContentFinished = 'CardRenderer.DisplayContentFinished'  
CardRenderer_DisplayContentStarted = 'CardRenderer.DisplayContentStarted'  
CardRenderer_ReadContentFinished = 'CardRenderer.ReadContentFinished'  
CardRenderer_ReadContentStarted = 'CardRenderer.ReadContentStarted'  
CustomInterfaceController_EventsReceived = 'CustomInterfaceController.EventsReceived'  
CustomInterfaceController_Expired = 'CustomInterfaceController.Expired'  
DeviceSetup_SetupCompleted = 'DeviceSetup.SetupCompleted'  
Display_ElementSelected = 'Display.ElementSelected'  
Display_UserEvent = 'Display.UserEvent'  
EffectsController_RequestEffectChangeRequest = 'EffectsController.RequestEffectChangeRequest'  
EffectsController_RequestGuiChangeRequest = 'EffectsController.RequestGuiChangeRequest'  
EffectsController_StateReceiptChangeRequest = 'EffectsController.StateReceiptChangeRequest'  
FitnessSessionController_FitnessSessionEnded = 'FitnessSessionController.FitnessSessionEnded'  
FitnessSessionController_FitnessSessionError = 'FitnessSessionController.FitnessSessionError'  
FitnessSessionController_FitnessSessionPaused = 'FitnessSessionController.FitnessSessionPaused'  
FitnessSessionController_FitnessSessionResumed = 'FitnessSessionController.FitnessSessionResumed'  
FitnessSessionController_FitnessSessionStarted = 'FitnessSessionController.FitnessSessionStarted'  
GameEngine_InputHandlerEvent = 'GameEngine.InputHandlerEvent'  
IN_SKILL_PRODUCT_SUBSCRIPTION_ENDED = 'IN_SKILL_PRODUCT_SUBSCRIPTION_ENDED'  
IN_SKILL_PRODUCT_SUBSCRIPTION_RENEWED = 'IN_SKILL_PRODUCT_SUBSCRIPTION_RENEWED'  
IN_SKILL_PRODUCT_SUBSCRIPTION_STARTED = 'IN_SKILL_PRODUCT_SUBSCRIPTION_STARTED'  
ITEMS_CREATED = 'ITEMS_CREATED'  
ITEMS_DELETED = 'ITEMS_DELETED'  
ITEMS_UPDATED = 'ITEMS_UPDATED'  
LIST_CREATED = 'LIST_CREATED'  
LIST_DELETED = 'LIST_DELETED'  
LIST_UPDATED = 'LIST_UPDATED'  
Legacy_ActivityManager_ActivityContextRemovedEvent = 'Legacy.ActivityManager.ActivityContextRemovedEvent'  
Legacy_ActivityManager_ActivityInterrupted = 'Legacy.ActivityManager.ActivityInterrupted'  
Legacy_ActivityManager_FocusChanged = 'Legacy.ActivityManager.FocusChanged'  
Legacy_AlertsController_DismissCommand = 'Legacy.AlertsController.DismissCommand'  
Legacy_AlertsController_SnoozeCommand = 'Legacy.AlertsController.SnoozeCommand'
```

```
Legacy_AudioPlayerGui_ButtonClickedEvent = 'Legacy.AudioPlayerGui.ButtonClickedEvent'  
Legacy_AudioPlayerGui_LyricsViewedEvent = 'Legacy.AudioPlayerGui.LyricsViewedEvent'  
Legacy_AudioPlayer_AudioStutter = 'Legacy.AudioPlayer.AudioStutter'  
Legacy_AudioPlayer_InitialPlaybackProgressReport = 'Legacy.AudioPlayer.InitialPlaybackProgressReport'  
Legacy_AudioPlayer_Metadata = 'Legacy.AudioPlayer.Metadata'  
Legacy_AudioPlayer_PeriodicPlaybackProgressReport = 'Legacy.AudioPlayer.PeriodicPlaybackProgressReport'  
Legacy_AudioPlayer_PlaybackError = 'Legacy.AudioPlayer.PlaybackError'  
Legacy_AudioPlayer_PlaybackFinished = 'Legacy.AudioPlayer.PlaybackFinished'  
Legacy_AudioPlayer_PlaybackIdle = 'Legacy.AudioPlayer.PlaybackIdle'  
Legacy_AudioPlayer_PlaybackInterrupted = 'Legacy.AudioPlayer.PlaybackInterrupted'  
Legacy_AudioPlayer_PlaybackNearlyFinished = 'Legacy.AudioPlayer.PlaybackNearlyFinished'  
Legacy_AudioPlayer_PlaybackPaused = 'Legacy.AudioPlayer.PlaybackPaused'  
Legacy_AudioPlayer_PlaybackResumed = 'Legacy.AudioPlayer.PlaybackResumed'  
Legacy_AudioPlayer_PlaybackStarted = 'Legacy.AudioPlayer.PlaybackStarted'  
Legacy_AudioPlayer_PlaybackStutterFinished = 'Legacy.AudioPlayer.PlaybackStutterFinished'  
Legacy_AudioPlayer_PlaybackStutterStarted = 'Legacy.AudioPlayer.PlaybackStutterStarted'  
Legacy_AuxController_DirectionChanged = 'Legacy.AuxController.DirectionChanged'  
Legacy_AuxController_EnabledStateChanged = 'Legacy.AuxController.EnabledStateChanged'  
Legacy_AuxController_InputActivityStateChanged = 'Legacy.AuxController.InputActivityStateChanged'  
Legacy_AuxController_PluggedStateChanged = 'Legacy.AuxController.PluggedStateChanged'  
Legacy_BluetoothNetwork_CancelPairingMode = 'Legacy.BluetoothNetwork.CancelPairingMode'  
Legacy_BluetoothNetwork_DeviceConnectedFailure = 'Legacy.BluetoothNetwork.DeviceConnectedFailure'  
Legacy_BluetoothNetwork_DeviceConnectedSuccess = 'Legacy.BluetoothNetwork.DeviceConnectedSuccess'  
Legacy_BluetoothNetwork_DeviceDisconnectedFailure = 'Legacy.BluetoothNetwork.DeviceDisconnectedFailure'  
Legacy_BluetoothNetwork_DeviceDisconnectedSuccess = 'Legacy.BluetoothNetwork.DeviceDisconnectedSuccess'  
Legacy_BluetoothNetwork_DevicePairFailure = 'Legacy.BluetoothNetwork.DevicePairFailure'  
Legacy_BluetoothNetwork_DevicePairSuccess = 'Legacy.BluetoothNetwork.DevicePairSuccess'  
Legacy_BluetoothNetwork_DeviceUnpairFailure = 'Legacy.BluetoothNetwork.DeviceUnpairFailure'  
Legacy_BluetoothNetwork_DeviceUnpairSuccess = 'Legacy.BluetoothNetwork.DeviceUnpairSuccess'  
Legacy_BluetoothNetwork_EnterPairingModeFailure = 'Legacy.BluetoothNetwork.EnterPairingModeFailure'  
Legacy_BluetoothNetwork_EnterPairingModeSuccess = 'Legacy.BluetoothNetwork.EnterPairingModeSuccess'  
Legacy_BluetoothNetwork_MediaControlFailure = 'Legacy.BluetoothNetwork.MediaControlFailure'  
Legacy_BluetoothNetwork_MediaControlSuccess = 'Legacy.BluetoothNetwork.MediaControlSuccess'  
Legacy_BluetoothNetwork_ScanDevicesReport = 'Legacy.BluetoothNetwork.ScanDevicesReport'  
Legacy_BluetoothNetwork_SetDeviceCategoriesFailed = 'Legacy.BluetoothNetwork.SetDeviceCategoriesFailed'  
Legacy_BluetoothNetwork_SetDeviceCategoriesSucceeded = 'Legacy.BluetoothNetwork.SetDeviceCategoriesSucceeded'
```

```
Legacy_ContentManager_ContentPlaybackTerminated = 'Legacy.ContentManager.ContentPlayba
Legacy_DeviceNotification_DeleteNotificationFailed = 'Legacy.DeviceNotification.Delete
Legacy_DeviceNotification_DeleteNotificationSucceeded = 'Legacy.DeviceNotification.Del
Legacy_DeviceNotification_NotificationEnteredBackground = 'Legacy.DeviceNotification.No
Legacy_DeviceNotification_NotificationEnteredForeground = 'Legacy.DeviceNotification.No
Legacy_DeviceNotification_NotificationStarted = 'Legacy.DeviceNotification.Notification
Legacy_DeviceNotification_NotificationStopped = 'Legacy.DeviceNotification.Notification
Legacy_DeviceNotification_NotificationSync = 'Legacy.DeviceNotification.NotificationSy
Legacy_DeviceNotification_SetNotificationFailed = 'Legacy.DeviceNotification.SetNotifi
Legacy_DeviceNotification_SetNotificationSucceeded = 'Legacy.DeviceNotification.SetNot
Legacy_EqualizerController_EqualizerChanged = 'Legacy.EqualizerController.EqualizerCha
Legacy_ExternalMediaPlayer_AuthorizationComplete = 'Legacy.ExternalMediaPlayer.Authori
Legacy_ExternalMediaPlayer_Error = 'Legacy.ExternalMediaPlayer.Error'
Legacy_ExternalMediaPlayer_Event = 'Legacy.ExternalMediaPlayer.Event'
Legacy_ExternalMediaPlayer_Login = 'Legacy.ExternalMediaPlayer.Login'
Legacy_ExternalMediaPlayer_Logout = 'Legacy.ExternalMediaPlayer.Logout'
Legacy_ExternalMediaPlayer_ReportDiscoveredPlayers = 'Legacy.ExternalMediaPlayer.Repor
Legacy_ExternalMediaPlayer_RequestToken = 'Legacy.ExternalMediaPlayer.RequestToken'
Legacy_FavoritesController_Error = 'Legacy.FavoritesController.Error'
Legacy_FavoritesController_Response = 'Legacy.FavoritesController.Response'
Legacy_GameEngine_GameInputEvent = 'Legacy.GameEngine.GameInputEvent'
Legacy_HomeAutoWifiController_DeviceReconnected = 'Legacy.HomeAutoWifiController.Devic
Legacy_HomeAutoWifiController_HttpNotified = 'Legacy.HomeAutoWifiController.HttpNotifi
Legacy_HomeAutoWifiController_SsdpDiscoveryFinished = 'Legacy.HomeAutoWifiController.S
Legacy_HomeAutoWifiController_SsdpServiceDiscovered = 'Legacy.HomeAutoWifiController.S
Legacy_HomeAutoWifiController_SsdpServiceTerminated = 'Legacy.HomeAutoWifiController.S
Legacy_ListModel_AddItemRequest = 'Legacy.ListModel.AddItemRequest'
Legacy_ListModel_DeleteItemRequest = 'Legacy.ListModel.DeleteItemRequest'
Legacy_ListModel_GetPageByOrdinalRequest = 'Legacy.ListModel.GetPageByOrdinalRequest'
Legacy_ListModel_GetPageByTokenRequest = 'Legacy.ListModel.GetPageByTokenRequest'
Legacy_ListModel_ListStateUpdateRequest = 'Legacy.ListModel.ListStateUpdateRequest'
Legacy_ListModel_UpdateItemRequest = 'Legacy.ListModel.UpdateItemRequest'
Legacy_ListRenderer_GetListPageByOrdinal = 'Legacy.ListRenderer.GetListPageByOrdinal'
Legacy_ListRenderer_GetListPageByToken = 'Legacy.ListRenderer.GetListPageByToken'
Legacy_ListRenderer_ListItemEvent = 'Legacy.ListRenderer.ListItemEvent'
Legacy_MediaGrouping_GroupChangeNotificationEvent = 'Legacy.MediaGrouping.GroupChangeN
```

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Legacy_MediaGrouping_GroupChangeResponseEvent = 'Legacy.MediaGrouping.GroupChangeRespon
Legacy_MediaGrouping_GroupSyncEvent = 'Legacy.MediaGrouping.GroupSyncEvent'
Legacy_MediaPlayer_PlaybackError = 'Legacy.MediaPlayer.PlaybackError'
Legacy_MediaPlayer_PlaybackFinished = 'Legacy.MediaPlayer.PlaybackFinished'
Legacy_MediaPlayer_PlaybackIdle = 'Legacy.MediaPlayer.PlaybackIdle'
Legacy_MediaPlayer_PlaybackNearlyFinished = 'Legacy.MediaPlayer.PlaybackNearlyFinished'
Legacy_MediaPlayer_PlaybackPaused = 'Legacy.MediaPlayer.PlaybackPaused'
Legacy_MediaPlayer_PlaybackResumed = 'Legacy.MediaPlayer.PlaybackResumed'
Legacy_MediaPlayer_PlaybackStarted = 'Legacy.MediaPlayer.PlaybackStarted'
Legacy_MediaPlayer_PlaybackStopped = 'Legacy.MediaPlayer.PlaybackStopped'
Legacy_MediaPlayer_SequenceItemsRequested = 'Legacy.MediaPlayer.SequenceItemsRequested'
Legacy_MediaPlayer_SequenceModified = 'Legacy.MediaPlayer.SequenceModified'
Legacy_MeetingClientController_Event = 'Legacy.MeetingClientController.Event'
Legacy_Microphone_AudioRecording = 'Legacy.Microphone.AudioRecording'
Legacy_PhoneCallController_Event = 'Legacy.PhoneCallController.Event'
Legacy_PlaybackController_ButtonCommand = 'Legacy.PlaybackController.ButtonCommand'
Legacy_PlaybackController_LyricsViewedEvent = 'Legacy.PlaybackController.LyricsViewedE
Legacy_PlaybackController_NextCommand = 'Legacy.PlaybackController.NextCommand'
Legacy_PlaybackController_PauseCommand = 'Legacy.PlaybackController.PauseCommand'
Legacy_PlaybackController_PlayCommand = 'Legacy.PlaybackController.PlayCommand'
Legacy_PlaybackController_PreviousCommand = 'Legacy.PlaybackController.PreviousCommand'
Legacy_PlaybackController_ToggleCommand = 'Legacy.PlaybackController.ToggleCommand'
Legacy_PlaylistController_ErrorResponse = 'Legacy.PlaylistController.ErrorResponse'
Legacy_PlaylistController_Response = 'Legacy.PlaylistController.Response'
Legacy_Presentation_PresentationDismissedEvent = 'Legacy.Presentation.PresentationDism
Legacy_Presentation_PresentationUserEvent = 'Legacy.Presentation.PresentationUserEvent'
Legacy_SconeRemoteControl_Next = 'Legacy.SconeRemoteControl.Next'
Legacy_SconeRemoteControl_PlayPause = 'Legacy.SconeRemoteControl.PlayPause'
Legacy_SconeRemoteControl_Previous = 'Legacy.SconeRemoteControl.Previous'
Legacy_SconeRemoteControl_VolumeDown = 'Legacy.SconeRemoteControl.VolumeDown'
Legacy_SconeRemoteControl_VolumeUp = 'Legacy.SconeRemoteControl.VolumeUp'
Legacy_SipClient_Event = 'Legacy.SipClient.Event'
Legacy_SoftwareUpdate_CheckSoftwareUpdateReport = 'Legacy.SoftwareUpdate.CheckSoftware
Legacy_SoftwareUpdate_InitiateSoftwareUpdateReport = 'Legacy.SoftwareUpdate.InitiateSo
Legacy_Speaker_MuteChanged = 'Legacy.Speaker.MuteChanged'
Legacy_Speaker_VolumeChanged = 'Legacy.Speaker.VolumeChanged'
```

```
Legacy_SpeechRecognizer_WakeWordChanged = 'Legacy.SpeechRecognizer.WakeWordChanged'  
Legacy_SpeechSynthesizer_SpeechFinished = 'Legacy.SpeechSynthesizer.SpeechFinished'  
Legacy_SpeechSynthesizer_SpeechInterrupted = 'Legacy.SpeechSynthesizer.SpeechInterrupted'  
Legacy_SpeechSynthesizer_SpeechStarted = 'Legacy.SpeechSynthesizer.SpeechStarted'  
Legacy_SpeechSynthesizer_SpeechSynthesizerError = 'Legacy.SpeechSynthesizer.SpeechSynthesizerError'  
Legacy_Spotify_Event = 'Legacy.Spotify.Event'  
Legacy_System_UserInactivity = 'Legacy.System.UserInactivity'  
Legacy_UDPController_BroadcastResponse = 'Legacy.UDPController.BroadcastResponse'  
LocalApplication_AlexaNotifications_Event = 'LocalApplication.AlexaNotifications.Event'  
LocalApplication_AlexaPlatformTestSpeechlet_Event = 'LocalApplication.AlexaPlatformTestSpeechlet.Event'  
LocalApplication_AlexaVision_Event = 'LocalApplication.AlexaVision.Event'  
LocalApplication_AlexaVoiceLayer_Event = 'LocalApplication.AlexaVoiceLayer.Event'  
LocalApplication_Alexa_Translation_LiveTranslation_Event = 'LocalApplication.Alexa.Translation.LiveTranslation.Event'  
LocalApplication_AvaPhysicalShopping_Event = 'LocalApplication.AvaPhysicalShopping.Event'  
LocalApplication_Calendar_Event = 'LocalApplication.Calendar.Event'  
LocalApplication_Closet_Event = 'LocalApplication.Closet.Event'  
LocalApplication_Communications_Event = 'LocalApplication.Communications.Event'  
LocalApplication_DeviceMessaging_Event = 'LocalApplication.DeviceMessaging.Event'  
LocalApplication_DigitalDash_Event = 'LocalApplication.DigitalDash.Event'  
LocalApplication_FireflyShopping_Event = 'LocalApplication.FireflyShopping.Event'  
LocalApplication_Gallery_Event = 'LocalApplication.Gallery.Event'  
LocalApplication_HHOPhotos_Event = 'LocalApplication.HHOPhotos.Event'  
LocalApplication_HomeAutomationMedia_Event = 'LocalApplication.HomeAutomationMedia.Event'  
LocalApplication_KnightContacts_Event = 'LocalApplication.KnightContacts.Event'  
LocalApplication_KnightHomeThingsToTry_Event = 'LocalApplication.KnightHomeThingsToTry.Event'  
LocalApplication_KnightHome_Event = 'LocalApplication.KnightHome.Event'  
LocalApplication_LocalMediaPlayer_Event = 'LocalApplication.LocalMediaPlayer.Event'  
LocalApplication_LocalVoiceUI_Event = 'LocalApplication.LocalVoiceUI.Event'  
LocalApplication_MShopPurchasing_Event = 'LocalApplication.MShopPurchasing.Event'  
LocalApplication_MShop_Event = 'LocalApplication.MShop.Event'  
LocalApplication_NotificationsApp_Event = 'LocalApplication.NotificationsApp.Event'  
LocalApplication_Photos_Event = 'LocalApplication.Photos.Event'  
LocalApplication_Sentry_Event = 'LocalApplication.Sentry.Event'  
LocalApplication_SipClient_Event = 'LocalApplication.SipClient.Event'  
LocalApplication_SipUserAgent_Event = 'LocalApplication.SipUserAgent.Event'  
LocalApplication_VideoExperienceService_Event = 'LocalApplication.VideoExperienceService.Event'
```

```
LocalApplication_WebVideoPlayer_Event = 'LocalApplication.WebVideoPlayer.Event'
LocalApplication_todoRenderer_Event = 'LocalApplication.todoRenderer.Event'
MessagingController_UpdateConversationsStatus = 'MessagingController.UpdateConversationsStatus'
MessagingController_UpdateMessagesStatusRequest = 'MessagingController.UpdateMessagesStatusRequest'
MessagingController_UpdateSendMessageStatusRequest = 'MessagingController.UpdateSendMessageStatusRequest'
MessagingController_UploadConversations = 'MessagingController.UploadConversations'
Messaging_MessageReceived = 'Messaging.MessageReceived'
PlaybackController_NextCommandIssued = 'PlaybackController.NextCommandIssued'
PlaybackController_PauseCommandIssued = 'PlaybackController.PauseCommandIssued'
PlaybackController_PlayCommandIssued = 'PlaybackController.PlayCommandIssued'
PlaybackController_PreviousCommandIssued = 'PlaybackController.PreviousCommandIssued'
REMINDER_CREATED = 'REMINDER_CREATED'
REMINDER_DELETED = 'REMINDER_DELETED'
REMINDER_STARTED = 'REMINDER_STARTED'
REMINDER_STATUS_CHANGED = 'REMINDER_STATUS_CHANGED'
REMINDER_UPDATED = 'REMINDER_UPDATED'
SKILL_ACCOUNT_LINKED = 'SKILL_ACCOUNT_LINKED'
SKILL_DISABLED = 'SKILL_DISABLED'
SKILL_ENABLED = 'SKILL_ENABLED'
SKILL_PERMISSION_ACCEPTED = 'SKILL_PERMISSION_ACCEPTED'
SKILL_PERMISSION_CHANGED = 'SKILL_PERMISSION_CHANGED'
SKILL_PROACTIVE_SUBSCRIPTION_CHANGED = 'SKILL_PROACTIVE_SUBSCRIPTION_CHANGED'

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.manifest.event_publications module

```
class ask_smapi_model.v1.skill.manifest.event_publications.EventPublications (event_name=None)
    Bases: object

        Parameters event_name (optional) str – Name of the event to publish.

attribute_map = {'event_name': 'eventName'}
deserialized_types = {'event_name': 'str'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict
```

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.manifest.flash_briefing_apis` module

class `ask_smapi_model.v1.skill.manifest.flash_briefing_apis.FlashBriefingApis` (*locales=None*)
Bases: `object`

Defines the structure for flash briefing api of the skill.

Parameters `locales` ((*optional*) *dict*(*str*, `ask_smapi_model.v1.skill.manifest.localized_flash_briefing_info.LocalizedFlashBriefingInfo`)) – Defines the structure for locale specific flash briefing api information.

`attribute_map` = {'locales': 'locales'}

`deserialized_types` = {'locales': 'dict(str, ask_smapi_model.v1.skill.manifest.localized_flash_briefing_info.LocalizedFlashBriefingInfo)'}
`supports_multiple_types` = `False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.manifest.flash_briefing_content_type` module

class `ask_smapi_model.v1.skill.manifest.flash_briefing_content_type.FlashBriefingContentType`
Bases: `enum.Enum`

format of the feed content.

Allowed enum values: [TEXT, AUDIO, AUDIO_AND_VIDEO]

`AUDIO` = 'AUDIO'

`AUDIO_AND_VIDEO` = 'AUDIO_AND_VIDEO'

`TEXT` = 'TEXT'

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.manifest.flash_briefing_genre` module

class `ask_smapi_model.v1.skill.manifest.flash_briefing_genre.FlashBriefingGenre`
Bases: `enum.Enum`

Type or subject of the content in the feed.

Allowed enum values: [HEADLINE_NEWS, BUSINESS, POLITICS, ENTERTAINMENT, TECHNOLOGY, HUMOR, LIFESTYLE, SPORTS, SCIENCE, HEALTH_AND_FITNESS, ARTS_AND_CULTURE, PRODUCTIVITY_AND_UTILITIES, OTHER]

```
ARTS_AND_CULTURE = 'ARTS_AND_CULTURE'  
BUSINESS = 'BUSINESS'  
ENTERTAINMENT = 'ENTERTAINMENT'  
HEADLINE_NEWS = 'HEADLINE_NEWS'  
HEALTH_AND_FITNESS = 'HEALTH_AND_FITNESS'  
HUMOR = 'HUMOR'  
LIFESTYLE = 'LIFESTYLE'  
OTHER = 'OTHER'  
POLITICS = 'POLITICS'  
PRODUCTIVITY_AND_UTILITIES = 'PRODUCTIVITY_AND_UTILITIES'  
SCIENCE = 'SCIENCE'  
SPORTS = 'SPORTS'  
TECHNOLOGY = 'TECHNOLOGY'  
  
to_dict()  
    Returns the model properties as a dict  
  
to_str()  
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.manifest.flash_briefing_update_frequency module

```
class ask_smapi_model.v1.skill.manifest.flash_briefing_update_frequency.FlashBriefingUpdateFrequency  
    Bases: enum.Enum  
  
    Tells how often the feed has new content.  
  
    Allowed enum values: [HOURLY, DAILY, WEEKLY, UNKNOWN]  
  
    DAILY = 'DAILY'  
    HOURLY = 'HOURLY'  
    UNKNOWN = 'UNKNOWN'  
    WEEKLY = 'WEEKLY'  
  
    to_dict()  
        Returns the model properties as a dict  
  
    to_str()  
        Returns the string representation of the model
```

ask_smapi_model.v1.skill.manifest.gadget_controller_interface module

```
class ask_smapi_model.v1.skill.manifest.gadget_controller_interface.GadgetControllerInterface  
    Bases: ask_smapi_model.v1.skill.manifest.interface.Interface  
  
    Skills using Gadget Controller can send directives to Echo Buttons. This is a legacy interface specific to Echo Buttons.  
  
    attribute_map = {'object_type': 'type'}
```



```

deserialized_types = {'object_type': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.manifest.gadget_support module

```

class ask_smapi_model.v1.skill.manifest.gadget_support.GadgetSupport
    Bases: enum.Enum

    Specifies if gadget support is required/optional for this skill to work.

    Allowed enum values: [REQUIRED, OPTIONAL]

    OPTIONAL = 'OPTIONAL'
    REQUIRED = 'REQUIRED'

    to_dict()
        Returns the model properties as a dict
    to_str()
        Returns the string representation of the model

```

ask_smapi_model.v1.skill.manifest.game_engine_interface module

```

class ask_smapi_model.v1.skill.manifest.game_engine_interface.GameEngineInterface
    Bases: ask_smapi_model.v1.skill.manifest.interface.Interface

    attribute_map = {'object_type': 'type'}
    deserialized_types = {'object_type': 'str'}
    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict
    to_str()
        Returns the string representation of the model

```

ask_smapi_model.v1.skill.manifest.health_alias module

```

class ask_smapi_model.v1.skill.manifest.health_alias.HealthAlias (name=None)
    Bases: object

    Parameters name ((optional) str) – Name of alias to use when invoking a health skill.

    attribute_map = {'name': 'name'}
    deserialized_types = {'name': 'str'}
    supports_multiple_types = False

```

```

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_smapi_model.v1.skill.manifest.health_apis module

```

class ask_smapi_model.v1.skill.manifest.health_apis.HealthApis (regions=None,
                                                             endpoint=None,
                                                             proto-
                                                             col_version=None,
                                                             inter-
                                                             faces=None)
    
```

Bases: `object`

Defines the structure of health api in the skill manifest.

Parameters

- **regions** ((*optional*) *dict*(*str*, `ask_smapi_model.v1.skill.manifest.region.Region`)) – Contains an array of the supported `<region>` Objects.
- **endpoint** ((*optional*) `ask_smapi_model.v1.skill.manifest.skill_manifest_endpoint.SkillManifestEndpoint`)–
- **protocol_version** ((*optional*) `ask_smapi_model.v1.skill.manifest.health_protocol_version.HealthProtocolVersion`)–
- **interfaces** ((*optional*) `ask_smapi_model.v1.skill.manifest.health_interface.HealthInterface`)–

```

attribute_map = {'endpoint': 'endpoint', 'interfaces': 'interfaces', 'protocol_version': 'protocol_version'}
deserialized_types = {'endpoint': 'ask_smapi_model.v1.skill.manifest.skill_manifest_endpoint.SkillManifestEndpoint', 'interfaces': 'ask_smapi_model.v1.skill.manifest.health_interface.HealthInterface', 'protocol_version': 'ask_smapi_model.v1.skill.manifest.health_protocol_version.HealthProtocolVersion'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_smapi_model.v1.skill.manifest.health_interface module

```

class ask_smapi_model.v1.skill.manifest.health_interface.HealthInterface (namespace=None,
                                                                           version=None,
                                                                           requests=None,
                                                                           locales=None)
    
```

Bases: `object`

Parameters

- **namespace** ((*optional*) *str*) – Name of the interface.

- **version** ((optional) `ask_smapi_model.v1.skill.manifest.version.Version`)–
- **requests** ((optional) `list[ask_smapi_model.v1.skill.manifest.health_request.HealthRequest]`) – Defines the details of requests that a health skill is capable of handling.
- **locales** ((optional) `dict(str, ask_smapi_model.v1.skill.manifest.localized_health_info.LocalizedHealthInfo)`) – Defines the list for health skill locale specific publishing information in the skill manifest.

`attribute_map = {'locales': 'locales', 'namespace': 'namespace', 'requests': 'requests'}`

`deserialized_types = {'locales': 'dict(str, ask_smapi_model.v1.skill.manifest.localized_health_info.LocalizedHealthInfo)'}`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

`ask_smapi_model.v1.skill.manifest.health_protocol_version` module

`class ask_smapi_model.v1.skill.manifest.health_protocol_version.HealthProtocolVersion`

Bases: `enum.Enum`

Allowed enum values: `[_1, _2]`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

`ask_smapi_model.v1.skill.manifest.health_request` module

`class ask_smapi_model.v1.skill.manifest.health_request.HealthRequest (name=None)`

Bases: `object`

Parameters `name` ((optional) `str`)– Defines the name of request, each request has their own payload format.

`attribute_map = {'name': 'name'}`

`deserialized_types = {'name': 'str'}`

`supports_multiple_types = False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.house_hold_list module

class ask_smapi_model.v1.skill.manifest.house_hold_list.**HouseHoldList**

Bases: object

Defines the structure of household list api in the skill manifest.

attribute_map = {}

deserialized_types = {}

supports_multiple_types = False

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.interface module

class ask_smapi_model.v1.skill.manifest.interface.**Interface** (*object_type=None*)

Bases: object

Parameters *object_type* ((optional) str)–

Note: This is an abstract class. Use the following mapping, to figure out the model class to be instantiated, that sets type variable.

ALEXA_PRESENTATION_APL: *ask_smapi_model.v1.skill.manifest.alexapresentationaplinterface.AlexaPresentationAplInterface,*

CUSTOM_INTERFACE:

ask_smapi_model.v1.skill.manifest.custominterface.CustomInterface,

ALEXA_PRESENTATION_HTML: *ask_smapi_model.v1.skill.manifest.alexapresentationhtmlinterface.AlexaPresentationHtmlInterface,*

AUDIO_PLAYER:

ask_smapi_model.v1.skill.manifest.audiointerface.AudioInterface,

GAME_ENGINE: *ask_smapi_model.v1.skill.manifest.gameengineinterface.GameEngineInterface,*

RENDER_TEMPLATE:

ask_smapi_model.v1.skill.manifest.displayinterface.DisplayInterface,

GADGET_CONTROLLER: *ask_smapi_model.v1.skill.manifest.gadgetcontrollerinterface.GadgetControllerInterface,*

VIDEO_APP:

ask_smapi_model.v1.skill.manifest.videoappinterface.VideoAppInterface

```

attribute_map = {'object_type': 'type'}
deserialized_types = {'object_type': 'str'}
discriminator_value_class_map = {'ALEXA_PRESENTATION_APL': 'ask_smapi_model.v1.skill.m
classmethod get_real_child_model(data)
    Returns the real base class specified by the discriminator
json_discriminator_key = 'type'
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.manifest.lambda_endpoint module

```

class ask_smapi_model.v1.skill.manifest.lambda_endpoint.LambdaEndpoint(uri=None)
    Bases: object

```

Contains the uri field. This sets the global default endpoint.

Parameters *uri* (*optional*) *str* – Amazon Resource Name (ARN) of the skill’s Lambda function or HTTPS URL.

```

attribute_map = {'uri': 'uri'}
deserialized_types = {'uri': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.manifest.lambda_region module

```

class ask_smapi_model.v1.skill.manifest.lambda_region.LambdaRegion(endpoint=None)
    Bases: object

```

Defines the structure of a regional information.

Parameters *endpoint* (*optional*) *ask_smapi_model.v1.skill.manifest.lambda_endpoint.LambdaEndpoint* –

```

attribute_map = {'endpoint': 'endpoint'}
deserialized_types = {'endpoint': 'ask_smapi_model.v1.skill.manifest.lambda_endpoint.
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict

```

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.manifest.localized_flash_briefing_info` module

`class ask_smapi_model.v1.skill.manifest.localized_flash_briefing_info.LocalizedFlashBriefingInfo`

Bases: `object`

Defines the localized flash briefing api information.

Parameters

- **feeds** ((*optional*) `list[ask_smapi_model.v1.skill.manifest.localized_flash_briefing_info_items.LocalizedFlashBriefingInfoItems]`) – Defines the structure for a feed information in the skill manifest.
- **custom_error_message** ((*optional*) `str`) – Alexa says this to the customer if the skill fails to render the content.

`attribute_map = {'custom_error_message': 'customErrorMessage', 'feeds': 'feeds'}`

`deserialized_types = {'custom_error_message': 'str', 'feeds': 'list[ask_smapi_model.v1.skill.manifest.localized_flash_briefing_info_items.LocalizedFlashBriefingInfoItems]'`

`supports_multiple_types = False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.manifest.localized_flash_briefing_info_items` module

`class ask_smapi_model.v1.skill.manifest.localized_flash_briefing_info_items.LocalizedFlashBriefingInfoItems`

Bases: `object`

Parameters

- **logical_name** ((*optional*) `str`) – Logical name of the feed. This is used to signify relation among feeds across different locales. Example If you have "weather" feed in multiple locale then consider naming it "weather_update" and we will make sure to play the right feed if customer changes the language on device.
- **name** ((*optional*) `str`) – Name that identifies this feed.

- **url** *((optional) str)* – Url for the feed
- **image_uri** *((optional) str)* – Uri for the feed image
- **content_type** *((optional) ask_smapi_model.v1.skill.manifest.flash_briefing_content_type.FlashBriefingContentType)* –
- **genre** *((optional) ask_smapi_model.v1.skill.manifest.flash_briefing_genre.FlashBriefingGenre)* –
- **update_frequency** *((optional) ask_smapi_model.v1.skill.manifest.flash_briefing_update_frequency.FlashBriefingUpdateFrequency)* –
- **vui_preamble** *((optional) str)* – A short introduction for the feed that Alexa reads to the customer before the feed contents. Should start with "In" or "From".
- **is_default** *((optional) bool)* – True if this should be the default feed to be enabled when customer enables the skill false otherwise.

```

attribute_map = {'content_type': 'contentType', 'genre': 'genre', 'image_uri': 'imageUri'}
deserialized_types = {'content_type': 'ask_smapi_model.v1.skill.manifest.flash_briefing_content_type.FlashBriefingContentType'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.manifest.localized_health_info module

```

class ask_smapi_model.v1.skill.manifest.localized_health_info.LocalizedHealthInfo(prompt_name: str, aliases: NonEmptyList[str])

```

Bases: `object`

Defines the structure for health skill locale specific publishing information in the skill manifest.

Parameters

- **prompt_name** *((optional) str)* – SSML supported name to use when Alexa renders the health skill name in a prompt to the user.
- **aliases** *((optional) list[ask_smapi_model.v1.skill.manifest.health_alias.HealthAlias])* – Defines the names to use when a user tries to invoke the health skill.

```

attribute_map = {'aliases': 'aliases', 'prompt_name': 'promptName'}
deserialized_types = {'aliases': 'list[ask_smapi_model.v1.skill.manifest.health_alias.HealthAlias]'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.manifest.localized_music_info module

```
class ask_smapi_model.v1.skill.manifest.localized_music_info.LocalizedMusicInfo (prompt_name=  
aliases=None,  
fea-  
tures=None,  
word-  
mark_logos=None)
```

Bases: `object`

Defines the structure of localized music information in the skill manifest.

Parameters

- **prompt_name** ((optional) *str*) – Name to be used when Alexa renders the music skill name.
- **aliases** ((optional) *list*[ask_smapi_model.v1.skill.manifest.music_alias.MusicAlias]) –
- **features** ((optional) *list*[ask_smapi_model.v1.skill.manifest.music_feature.MusicFeature]) –
- **wordmark_logos** ((optional) *list*[ask_smapi_model.v1.skill.manifest.music_wordmark.MusicWordmark]) –

```
attribute_map = {'aliases': 'aliases', 'features': 'features', 'prompt_name': 'prompt_name'}
```

```
deserialized_types = {'aliases': 'list[ask_smapi_model.v1.skill.manifest.music_alias.MusicAlias]', 'features': 'list[ask_smapi_model.v1.skill.manifest.music_feature.MusicFeature]', 'prompt_name': 'str'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.manifest_gadget_support module

```
class ask_smapi_model.v1.skill.manifest.manifest_gadget_support.ManifestGadgetSupport (requirement=  
min_gadget_buttons=None,  
max_gadget_buttons=None,  
num_players_max=None)
```

Bases: `object`

Defines the structure for gadget buttons support in the skill manifest.

Parameters

- **requirement** ((optional) ask_smapi_model.v1.skill.manifest.manifest_gadget_support.GadgetSupport) –
- **min_gadget_buttons** ((optional) *int*) – Minimum number of gadget buttons required.
- **max_gadget_buttons** ((optional) *int*) – Maximum number of gadget buttons required.
- **num_players_max** ((optional) *int*) – Maximum number of players in the game.

- `num_players_min` (*optional*) `int` – Minimum number of players in the game.

```
attribute_map = {'max_gadget_buttons': 'maxGadgetButtons', 'min_gadget_buttons': 'mi
```

```
deserialized_types = {'max_gadget_buttons': 'int', 'min_gadget_buttons': 'int', 'num
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.music_alias module

```
class ask_smapi_model.v1.skill.manifest.music_alias.MusicAlias (name=None)
```

Bases: `object`

Parameters `name` (*optional*) `str` – Alias name to be associated with the music skill.

```
attribute_map = {'name': 'name'}
```

```
deserialized_types = {'name': 'str'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.music_apis module

```
class ask_smapi_model.v1.skill.manifest.music_apis.MusicApis (regions=None,
                                                             endpoint=None,
                                                             capabilities=None,
                                                             interfaces=None,
                                                             locales=None, content_types=None)
```

Bases: `object`

Defines the structure of music api in the skill manifest.

Parameters

- **regions** (*optional*) `dict` (`str`, `ask_smapi_model.v1.skill.manifest.lambda_region.LambdaRegion`) – Contains an array of the supported <code>region</code> Objects.
- **endpoint** (*optional*) `ask_smapi_model.v1.skill.manifest.lambda_endpoint.LambdaEndpoint` –
- **capabilities** (*optional*) `list` [`ask_smapi_model.v1.skill.manifest.music_capability.MusicCapability`] – Defines the structure of music capabilities information in the skill manifest.
- **interfaces** (*optional*) `ask_smapi_model.v1.skill.manifest.music_interfaces.MusicInterfaces` –

- **locales** ((optional) dict(str, ask_smapi_model.v1.skill.manifest.localized_music_info.LocalizedMusicInfo)) – Defines the structure of locale specific music information in the skill manifest.
- **content_types** ((optional) list[ask_smapi_model.v1.skill.manifest.music_content_type.MusicContentType]) – List of the type of content to be provided by the music skill.

attribute_map = {'capabilities': 'capabilities', 'content_types': 'contentTypes', 'e

deserialized_types = {'capabilities': 'list[ask_smapi_model.v1.skill.manifest.music_c

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.music_capability module

```
class ask_smapi_model.v1.skill.manifest.music_capability.MusicCapability(namespace=None,
                                                                    name=None,
                                                                    ver-
                                                                    sion=None)
```

Bases: object

Parameters

- **namespace** ((optional) str) – Namespace of music skill api.
- **name** ((optional) str) – Name of music skill api.
- **version** ((optional) str) – Version of music skill api.

attribute_map = {'name': 'name', 'namespace': 'namespace', 'version': 'version'}

deserialized_types = {'name': 'str', 'namespace': 'str', 'version': 'str'}

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.music_content_name module

```
class ask_smapi_model.v1.skill.manifest.music_content_name.MusicContentName
```

Bases: enum.Enum

Name of the content type that's supported for the music skill.

Allowed enum values: [ON_DEMAND, RADIO, PODCAST]

ON_DEMAND = 'ON_DEMAND'

PODCAST = 'PODCAST'

RADIO = 'RADIO'

```

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_smapi_model.v1.skill.manifest.music_content_type module

```

class ask_smapi_model.v1.skill.manifest.music_content_type.MusicContentType (name=None)
    Bases: object
    
```

Defines the structure for content that can be provided by a music skill.

```

    Parameters name ((optional) ask_smapi_model.v1.skill.manifest.music_content_name.MusicContentName)-

    attribute_map = {'name': 'name'}

    deserialized_types = {'name': 'ask_smapi_model.v1.skill.manifest.music_content_name.MusicContentName'}

    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model
    
```

ask_smapi_model.v1.skill.manifest.music_feature module

```

class ask_smapi_model.v1.skill.manifest.music_feature.MusicFeature (name=None)
    Bases: object
    
```

Parameters *name* ((*optional*) `str`)- Feature name to be associated with the music skill.

```

    attribute_map = {'name': 'name'}

    deserialized_types = {'name': 'str'}

    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model
    
```

ask_smapi_model.v1.skill.manifest.music_interfaces module

```

class ask_smapi_model.v1.skill.manifest.music_interfaces.MusicInterfaces (namespace=None, version=None, requests=None)
    Bases: object
    
```

Parameters

- **namespace** ((*optional*) `str`)- Name of the interface.

- **version** (*optional*) *str* – Version of the interface.
- **requests** (*optional*) *list[ask_smapi_model.v1.skill.manifest.music_request.MusicRequest]* – Contains a list of requests/messages that skill can handle.

attribute_map = {'namespace': 'namespace', 'requests': 'requests', 'version': 'vers

deserialized_types = {'namespace': 'str', 'requests': 'list[ask_smapi_model.v1.skill

supports_multiple_types = **False**

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.music_request module

class ask_smapi_model.v1.skill.manifest.music_request.**MusicRequest** (*name=None*)

Bases: *object*

Parameters **name** (*optional*) *str* – Name of the request.

attribute_map = {'name': 'name'}

deserialized_types = {'name': 'str'}

supports_multiple_types = **False**

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.music_wordmark module

class ask_smapi_model.v1.skill.manifest.music_wordmark.**MusicWordmark** (*uri=None*)

Bases: *object*

Parameters **uri** (*optional*) *str* – Wordmark logo to be used by devices with displays.

attribute_map = {'uri': 'uri'}

deserialized_types = {'uri': 'str'}

supports_multiple_types = **False**

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.permission_items module

class ask_smapi_model.v1.skill.manifest.permission_items.**PermissionItems** (*name=None*)

Bases: *object*

```

Parameters name          ((optional) ask_smapi_model.v1.skill.manifest.
                             permission_name.PermissionName)-
attribute_map = {'name': 'name'}
deserialized_types = {'name': 'ask_smapi_model.v1.skill.manifest.permission_name.Perm
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.manifest.permission_name module

```

class ask_smapi_model.v1.skill.manifest.permission_name.PermissionName
    Bases: enum.Enum

```

Name of the required permission.

Allowed enum values: [payments_autopay_consent, alexa_async_event_write, avs_distributed_audio, alexa_devices_all_address_full_read, alexa_devices_all_address_country_and_postal_code_read, alexa_devices_all_geolocation_read, alexa_health_profile_write, alexa_household_lists_read, alexa_household_lists_write, alexa_personality_explicit_read, alexa_personality_explicit_write, alexa_profile_name_read, alexa_profile_email_read, alexa_profile_mobile_number_read, alexa_profile_given_name_read, alexa_customer_id_read, alexa_person_id_read, alexa_raw_person_id_read, alexa_utterance_id_read, alexa_devices_all_notifications_write, alexa_devices_all_notifications_urgent_write, alexa_alerts_reminders_skill_readwrite, alexa_alerts_timers_skill_readwrite, alexa_skill_cds_monetization, alexa_music_cast, alexa_skill_products_entitlements, alexa_skill_proactive_enablement, alexa_authenticate_2_mandatory, alexa_authenticate_2_optional, alexa_user_experience_guidance_read, alexa_device_id_read, alexa_device_type_read]

```
alex_aalerts_reminders_skill_readwrite = 'alexa::alerts:reminders:skill:readwrite'
```

```
alex_aalerts_timers_skill_readwrite = 'alexa::alerts:timers:skill:readwrite'
```

```
alex_aasync_event_write = 'alexa::async_event:write'
```

```
alex_aauthenticate_2_mandatory = 'alexa::authenticate:2:mandatory'
```

```
alex_aauthenticate_2_optional = 'alexa::authenticate:2:optional'
```

```
alex_acustomer_id_read = 'alexa::customer_id:read'
```

```
alex_adevice_id_read = 'alexa::device_id:read'
```

```
alex_adevice_type_read = 'alexa::device_type:read'
```

```
alex_adevices_all_address_country_and_postal_code_read = 'alexa:devices:all:address:co
```

```
alex_adevices_all_address_full_read = 'alexa::devices:all:address:full:read'
```

```
alex_adevices_all_geolocation_read = 'alexa::devices:all:geolocation:read'
```

```
alex_adevices_all_notifications_urgent_write = 'alexa::devices:all:notifications:urgen
```

```
alex_adevices_all_notifications_write = 'alexa::devices:all:notifications:write'
```

```
alex_ahealth_profile_write = 'alexa::health:profile:write'
```

```
alex_ahousehold_lists_read = 'alexa::household:lists:read'
```

```
alex household_lists_write = 'alex::household:lists:write'  
alex music_cast = 'alex::music:cast'  
alex person_id_read = 'alex::person_id:read'  
alex personality_explicit_read = 'alex::personality:explicit:read'  
alex personality_explicit_write = 'alex::personality:explicit:write'  
alex profile_email_read = 'alex::profile:email:read'  
alex profile_given_name_read = 'alex::profile:given_name:read'  
alex profile_mobile_number_read = 'alex::profile:mobile_number:read'  
alex profile_name_read = 'alex::profile:name:read'  
alex raw_person_id_read = 'alex::raw_person_id:read'  
alex skill_cds_monetization = 'alex::skill:cds:monetization'  
alex skill_proactive_enablement = 'alex::skill:proactive_enablement'  
alex skill_products_entitlements = 'alex::skill:products:entitlements'  
alex user_experience_guidance_read = 'alex::user_experience_guidance:read'  
alex utterance_id_read = 'alex::utterance_id:read'  
avs_distributed_audio = 'avs::distributed_audio'  
payments_autopay_consent = 'payments:autopay_consent'  
  
to_dict()  
    Returns the model properties as a dict  
  
to_str()  
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.manifest.region module

```
class ask_smapi_model.v1.skill.manifest.region.Region(endpoint=None)
```

```
    Bases: object
```

```
    Defines the structure for regional information.
```

```
        Parameters endpoint      ((optional) ask_smapi_model.v1.skill.manifest.  
                                skill_manifest_endpoint.SkillManifestEndpoint)–
```

```
attribute_map = {'endpoint': 'endpoint'}
```

```
deserialized_types = {'endpoint': 'ask_smapi_model.v1.skill.manifest.skill_manifest_e
```

```
supports_multiple_types = False
```

```
to_dict()  
    Returns the model properties as a dict
```

```
to_str()  
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.manifest.request module

```

class ask_smapi_model.v1.skill.manifest.request.Request (name=None)
    Bases: object
        Parameters name ((optional) ask_smapi_model.v1.skill.manifest.
            request_name.RequestName)–
        attribute_map = {'name': 'name'}
        deserialized_types = {'name': 'ask_smapi_model.v1.skill.manifest.request_name.RequestName'}
        supports_multiple_types = False
        to_dict ()
            Returns the model properties as a dict
        to_str ()
            Returns the string representation of the model
    
```

ask_smapi_model.v1.skill.manifest.request_name module

```

class ask_smapi_model.v1.skill.manifest.request_name.RequestName
    Bases: enum.Enum
    Name of the request.
    Allowed enum values: [Search, Create, Update]
    Create = 'Create'
    Search = 'Search'
    Update = 'Update'
    to_dict ()
        Returns the model properties as a dict
    to_str ()
        Returns the string representation of the model
    
```

ask_smapi_model.v1.skill.manifest.skill_manifest module

```

class ask_smapi_model.v1.skill.manifest.skill_manifest.SkillManifest (manifest_version=None,
    publishing_information=None,
    privacy_and_compliance=None,
    events=None,
    permissions=None,
    apis=None)
    Bases: object
    Defines the structure for a skill's metadata.
        Parameters
            • manifest_version ((optional) str) – Version of the skill manifest.
    
```

- **publishing_information** ((optional) ask_smapi_model.v1.skill.manifest.skill_manifest_publishing_information.SkillManifestPublishingInformation)–
- **privacy_and_compliance** ((optional) ask_smapi_model.v1.skill.manifest.skill_manifest_privacy_and_compliance.SkillManifestPrivacyAndCompliance)–
- **events** ((optional) ask_smapi_model.v1.skill.manifest.skill_manifest_events.SkillManifestEvents)–
- **permissions** ((optional) list[ask_smapi_model.v1.skill.manifest.permission_items.PermissionItems]) – Defines the structure for required permissions information in the skill manifest.
- **apis** ((optional) ask_smapi_model.v1.skill.manifest.skill_manifest_apis.SkillManifestApis)–

attribute_map = {'apis': 'apis', 'events': 'events', 'manifest_version': 'manifestV

deserialized_types = {'apis': 'ask_smapi_model.v1.skill.manifest.skill_manifest_apis.

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.skill_manifest_apis module

class ask_smapi_model.v1.skill.manifest.skill_manifest_apis.**SkillManifestApis** (*flash_briefing=None, cus- tom=None, smart_home=None, video=None, alexa_for_busines. health=None, house- hold_list=None, mu- sic=None*)

Bases: object

Defines the structure for implemented apis information in the skill manifest.

Parameters

- **flash_briefing** ((optional) ask_smapi_model.v1.skill.manifest.flash_briefing_apis.FlashBriefingApis)–
- **custom** ((optional) ask_smapi_model.v1.skill.manifest.custom_apis.CustomApis)–
- **smart_home** ((optional) ask_smapi_model.v1.skill.manifest.smart_home_apis.SmartHomeApis)–
- **video** ((optional) ask_smapi_model.v1.skill.manifest.video_apis.VideoApis)–

- **alexa_for_business** ((optional) ask_smapi_model.v1.skill.manifest.alexa_for_business_apis.AlexaForBusinessApis)-
- **health** ((optional) ask_smapi_model.v1.skill.manifest.health_apis.HealthApis)-
- **household_list** ((optional) ask_smapi_model.v1.skill.manifest.house_hold_list.HouseHoldList)-
- **music** ((optional) ask_smapi_model.v1.skill.manifest.music_apis.MusicApis)-

```
attribute_map = {'alexa_for_business': 'alexaForBusiness', 'custom': 'custom', 'flas
```

```
deserialized_types = {'alexa_for_business': 'ask_smapi_model.v1.skill.manifest.alexa
```

```
supports_multiple_types = False
```

```
to_dict()
```

```
Returns the model properties as a dict
```

```
to_str()
```

```
Returns the string representation of the model
```

ask_smapi_model.v1.skill.manifest.skill_manifest_custom_task module

```
class ask_smapi_model.v1.skill.manifest.skill_manifest_custom_task.SkillManifestCustomTask
```

Bases: object

Defines the name and version of the task that the skill wants to handle.

Parameters

- **name** ((optional) str) – Name of the task.
- **version** ((optional) str) – Version of the task.

```
attribute_map = {'name': 'name', 'version': 'version'}
```

```
deserialized_types = {'name': 'str', 'version': 'str'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

```
Returns the model properties as a dict
```

```
to_str()
```

```
Returns the string representation of the model
```

ask_smapi_model.v1.skill.manifest.skill_manifest_endpoint module

```
class ask_smapi_model.v1.skill.manifest.skill_manifest_endpoint.SkillManifestEndpoint (uri=N
ssl_certificate)
```

Bases: object

Defines the structure for endpoint information in the skill manifest.

Parameters

- **uri** ((optional) str) – Amazon Resource Name (ARN) of the skill’s Lambda function or HTTPS URL.
- **ssl_certificate_type** ((optional) ask_smapi_model.v1.skill.manifest.ssl_certificate_type.SSLCertificateType) –

attribute_map = {'ssl_certificate_type': 'sslCertificateType', 'uri': 'uri'}

deserialized_types = {'ssl_certificate_type': 'ask_smapi_model.v1.skill.manifest.ssl_

supports_multiple_types = False

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.skill_manifest_envelope module

class ask_smapi_model.v1.skill.manifest.skill_manifest_envelope.**SkillManifestEnvelope** (manifest_envelope.SkillManifestEnvelope)
 Bases: object

Parameters manifest ((optional) ask_smapi_model.v1.skill.manifest.skill_manifest.SkillManifest) –

attribute_map = {'manifest': 'manifest'}

deserialized_types = {'manifest': 'ask_smapi_model.v1.skill.manifest.skill_manifest.S

supports_multiple_types = False

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.skill_manifest_events module

class ask_smapi_model.v1.skill.manifest.skill_manifest_events.**SkillManifestEvents** (subscription_manifest_events.SkillManifestEvents)
 Bases: object

pub-
li-
ca-
tions=None,
re-
gions=None
end-
point=None

Bases: object

Defines the structure for subscribed events information in the skill manifest.

Parameters

- **subscriptions** ((optional) list[ask_smapi_model.v1.skill.manifest.event_name.EventName]) – Contains an array of eventName object each of which contains the name of a skill event.

- **publications** ((optional) list[ask_smapi_model.v1.skill.manifest.event_publications.EventPublications])–
- **regions** ((optional) dict(str, ask_smapi_model.v1.skill.manifest.region.Region)) – Contains an array of the supported <region> Objects.
- **endpoint** ((optional) ask_smapi_model.v1.skill.manifest.skill_manifest_endpoint.SkillManifestEndpoint)–

attribute_map = {'endpoint': 'endpoint', 'publications': 'publications', 'regions':

deserialized_types = {'endpoint': 'ask_smapi_model.v1.skill.manifest.skill_manifest_e

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.skill_manifest_localized_privacy_and_compliance module

class ask_smapi_model.v1.skill.manifest.skill_manifest_localized_privacy_and_compliance.**Sk**

Bases: object

Defines the structure for locale specific privacy & compliance information in the skill manifest.

Parameters

- **privacy_policy_url** ((optional) str) – Link to the privacy policy that applies to this skill.
- **terms_of_use_url** ((optional) str) – link to the terms of use document for this skill

attribute_map = {'privacy_policy_url': 'privacyPolicyUrl', 'terms_of_use_url': 'term

deserialized_types = {'privacy_policy_url': 'str', 'terms_of_use_url': 'str'}

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.skill_manifest_localized_publishing_information module**class** ask_smapi_model.v1.skill.manifest.skill_manifest_localized_publishing_information.SkBases: `object`

Defines the structure for locale specific publishing information in the skill manifest.

Parameters

- **name** (*optional* `str`) – Name of the skill that is displayed to customers in the Alexa app.
- **small_icon_uri** (*optional* `str`) – URL to a small icon for the skill, which is shown in the list of skills (108x108px).
- **large_icon_uri** (*optional* `str`) – URL to a large icon that represents this skill (512x512px).
- **summary** (*optional* `str`) – Summary description of the skill, which is shown when viewing the list of skills.
- **description** (*optional* `str`) – A full description explaining the skill’s core functionality and any prerequisites to using it (such as additional hardware, software, or accounts). For a Flash Briefing skill, you must list the feeds for the skill.
- **updates_description** (*optional* `str`) – Updates description of the skill’s new features and fixes in the version. Should describe changes in the revisions of the skill.
- **example_phrases** (*optional* `list[str]`) – Three example phrases that illustrate how users can invoke your skill. For accuracy, these phrases must come directly from your sample utterances.
- **keywords** (*optional* `list[str]`) – Sample keyword phrases that describe the skill.

```
attribute_map = {'description': 'description', 'example_phrases': 'examplePhrases',
```

```
deserialized_types = {'description': 'str', 'example_phrases': 'list[str]', 'keyword
```

```
supports_multiple_types = False
```

```
to_dict ()
```

```
    Returns the model properties as a dict
```

```
to_str ()
```

```
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.manifest.skill_manifest_privacy_and_compliance module**class** ask_smapi_model.v1.skill.manifest.skill_manifest_privacy_and_compliance.SkillManifest

Bases: object

Defines the structure for privacy & compliance information in the skill manifest.

Parameters

- **locales** ((optional) dict(str, ask_smapi_model.v1.skill.manifest.skill_manifest_localized_privacy_and_compliance.SkillManifestLocalizedPrivacyAndCompliance)) – Defines the structure for locale specific privacy & compliance information in the skill manifest.
- **allows_purchases** ((optional) bool) – True if the skill allows users to make purchases or spend real money false otherwise.
- **uses_personal_info** ((optional) bool) – True if the skill collects users' personal information false otherwise.
- **is_child_directed** ((optional) bool) – True if the skill is directed to or targets children under the age of 13/16 false otherwise.
- **is_export_compliant** ((optional) bool) – True if it is certified that the skill may be imported to and exported from the United States and all other countries and regions in which Amazon operate its program or in which skill owner have authorized sales to end users (without the need for Amazon to obtain any license or clearance or take any other action) and is in full compliance with all applicable laws and regulations governing imports and export including those applicable to software that makes use of encryption technology.
- **contains_ads** ((optional) bool) – True if the skill contains advertising false otherwise.
- **uses_health_info** ((optional) bool) – True if the skill developer is a Covered Entity (CE) or Business Associate (BA) as defined by the Health Insurance Portability And Accountability Act (HIPAA) and the skill requires Amazon to process PHI on their behalf, false otherwise. This is an optional property and treated as false if not set.

attribute_map = {'allows_purchases': 'allowsPurchases', 'contains_ads': 'containsAds'}**deserialized_types** = {'allows_purchases': 'bool', 'contains_ads': 'bool', 'is_child_directed': 'bool'}**supports_multiple_types** = False**to_dict**()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.skill_manifest_publishing_information module

class ask_smapi_model.v1.skill.manifest.skill_manifest_publishing_information.SkillManifest

Bases: `object`

Defines the structure for publishing information in the skill manifest.

Parameters

- **name** ((*optional*) *str*) – Name of the skill that is displayed to customers in the Alexa app.
- **description** ((*optional*) *str*) – Description of the skill’s purpose and feature and how it works. Should describe any prerequisites like hardware or account requirements and detailed steps for the customer to get started. For Flash Briefing skill list the feeds offered within the skill. Use a conversational tone and correct grammar and punctuation. This description displays to customers on the skill detail card in the Alexa app.
- **locales** ((*optional*) *dict*(*str*, ask_smapi_model.v1.skill.manifest.skill_manifest_localized_publishing_information.SkillManifestLocalizedPublishingInformation)) – Defines the structure for locale specific publishing information in the skill manifest.
- **is_available_worldwide** ((*optional*) *bool*) – True if the skill should be distributed in all countries where Amazon distributes skill false otherwise.
- **distribution_mode** ((*optional*) ask_smapi_model.v1.skill.manifest.distribution_mode.DistributionMode) –
- **gadget_support** ((*optional*) ask_smapi_model.v1.skill.manifest.manifest_gadget_support.ManifestGadgetSupport) –
- **testing_instructions** ((*optional*) *str*) – Special instructions provided by the developer to test the skill.
- **category** ((*optional*) *str*) – Category that best describes a skill. Indicates the filter category for the skill in the Alexa App.

- **distribution_countries** ((optional) list[ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries]) – Selected list of countries provided by the skill owner where Amazon can distribute the skill.

```
attribute_map = {'category': 'category', 'description': 'description', 'distribution_
deserialized_types = {'category': 'str', 'description': 'str', 'distribution_countri
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.manifest.smart_home_apis module

```
class ask_smapi_model.v1.skill.manifest.smart_home_apis.SmartHomeApis (regions=None,
                                                                    end-
                                                                    point=None,
                                                                    proto-
                                                                    col_version=None)
```

Bases: object

Defines the structure for smart home api of the skill.

Parameters

- **regions** ((optional) dict(str, ask_smapi_model.v1.skill.manifest.lambda_region.LambdaRegion)) – Contains an array of the supported <region> Objects.
- **endpoint** ((optional) ask_smapi_model.v1.skill.manifest.lambda_endpoint.LambdaEndpoint) –
- **protocol_version** ((optional) ask_smapi_model.v1.skill.manifest.smart_home_protocol.SmartHomeProtocol) –

```
attribute_map = {'endpoint': 'endpoint', 'protocol_version': 'protocolVersion', 'reg
deserialized_types = {'endpoint': 'ask_smapi_model.v1.skill.manifest.lambda_endpoint.
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.manifest.smart_home_protocol module

```
class ask_smapi_model.v1.skill.manifest.smart_home_protocol.SmartHomeProtocol
Bases: enum.Enum
```

Version of the Smart Home API. Default and recommended value is '3'. You may create a skill with version '2' for testing migration to version '3', but a skill submission using version '2' will not be certified.

Allowed enum values: [_1, _2, _2_5, _2_9, _3]

```

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.manifest.ssl_certificate_type module

```

class ask_smapi_model.v1.skill.manifest.ssl_certificate_type.SSLCertificateType
    Bases: enum.Enum

    The SSL certificate type of the skill's HTTPS endpoint. Only valid for HTTPS endpoint not for AWS Lambda ARN.

    Allowed enum values: [SelfSigned, Wildcard, Trusted]

    SelfSigned = 'SelfSigned'
    Trusted = 'Trusted'
    Wildcard = 'Wildcard'

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model

```

ask_smapi_model.v1.skill.manifest.up_channel_items module

```

class ask_smapi_model.v1.skill.manifest.up_channel_items.UpChannelItems (object_type=None, uri=None)
    Bases: object

    Parameters
    • object_type (optional) str – Use "SNS" for this field.
    • uri (optional) str – SNS Amazon Resource Name (ARN) for video skill through which video partner can send events to Alexa.

    attribute_map = {'object_type': 'type', 'uri': 'uri'}
    deserialized_types = {'object_type': 'str', 'uri': 'str'}
    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model

```

ask_smapi_model.v1.skill.manifest.version module

```

class ask_smapi_model.v1.skill.manifest.version.Version
    Bases: enum.Enum

    Version of the interface.

```


Allowed enum values: [_1]

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.video_apis module

class ask_smapi_model.v1.skill.manifest.video_apis.**VideoApis** (*regions=None, locales=None, endpoint=None, countries=None*)

Bases: `object`

Defines the structure for video api of the skill.

Parameters

- **regions** ((optional) dict(str, ask_smapi_model.v1.skill.manifest.video_region.VideoRegion)) – Defines the structure for region information.
- **locales** ((optional) dict(str, ask_smapi_model.v1.skill.manifest.video_apis_locale.VideoApisLocale)) – Defines the structure for the locale specific video api information.
- **endpoint** ((optional) ask_smapi_model.v1.skill.manifest.lambda_endpoint.LambdaEndpoint) –
- **countries** ((optional) dict(str, ask_smapi_model.v1.skill.manifest.video_country_info.VideoCountryInfo)) – Object that contains <country> Objects for each supported country.

attribute_map = {'countries': 'countries', 'endpoint': 'endpoint', 'locales': 'locales'}

deserialized_types = {'countries': 'dict(str, ask_smapi_model.v1.skill.manifest.video_apis_locale.VideoApisLocale)'}

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.video_apis_locale module

class ask_smapi_model.v1.skill.manifest.video_apis_locale.**VideoApisLocale** (*video_provider_targeting=None, video_provider_logo_url=None, category=None, log_information=None*)

Bases: `object`

Defines the structure for localized video api information.

Parameters

- **video_provider_targeting_names** (*optional*) *list[str]* – Defines the video provider’s targeting name.
- **video_provider_logo_uri** (*optional*) *str* –
- **catalog_information** (*optional*) *list[ask_smapi_model.v1.skill.manifest.video_catalog_info.VideoCatalogInfo]* –

```
attribute_map = {'catalog_information': 'catalogInformation', 'video_provider_logo_ur
```

```
deserialized_types = {'catalog_information': 'list[ask_smapi_model.v1.skill.manifest.
```

```
supports_multiple_types = False
```

```
to_dict()
```

```
Returns the model properties as a dict
```

```
to_str()
```

```
Returns the string representation of the model
```

ask_smapi_model.v1.skill.manifest.video_app_interface module

```
class ask_smapi_model.v1.skill.manifest.video_app_interface.VideoAppInterface
```

```
Bases: ask_smapi_model.v1.skill.manifest.interface.Interface
```

```
attribute_map = {'object_type': 'type'}
```

```
deserialized_types = {'object_type': 'str'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

```
Returns the model properties as a dict
```

```
to_str()
```

```
Returns the string representation of the model
```

ask_smapi_model.v1.skill.manifest.video_catalog_info module

```
class ask_smapi_model.v1.skill.manifest.video_catalog_info.VideoCatalogInfo (source_id=None)
```

```
Bases: object
```

```
Parameters source_id(optional) str)–
```

```
attribute_map = {'source_id': 'sourceId'}
```

```
deserialized_types = {'source_id': 'str'}
```

```
supports_multiple_types = False
```

```
to_dict()
```

```
Returns the model properties as a dict
```

```
to_str()
```

```
Returns the string representation of the model
```

ask_smapi_model.v1.skill.manifest.video_country_info module

class ask_smapi_model.v1.skill.manifest.video_country_info.**VideoCountryInfo** (*catalog_information=*
 Bases: `object`

Defines the structure of per-country video info in the skill manifest.

Parameters **catalog_information** ((*optional*) *list*[ask_smapi_model.v1.skill.manifest.video_catalog_info.VideoCatalogInfo])–

attribute_map = {'catalog_information': 'catalogInformation'}

deserialized_types = {'catalog_information': 'list[ask_smapi_model.v1.skill.manifest.

supports_multiple_types = **False**

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.video_region module

class ask_smapi_model.v1.skill.manifest.video_region.**VideoRegion** (*endpoint=None,*
upchan-
nel=None)

Bases: `object`

Defines the structure for endpoint information.

Parameters

- **endpoint** ((*optional*) ask_smapi_model.v1.skill.manifest.lambda_endpoint.LambdaEndpoint)–

- **upchannel** ((*optional*) *list*[ask_smapi_model.v1.skill.manifest.up_channel_items.UpChannelItems]) – The channel through which the partner skill can communicate to Alexa.

attribute_map = {'endpoint': 'endpoint', 'upchannel': 'upchannel'}

deserialized_types = {'endpoint': 'ask_smapi_model.v1.skill.manifest.lambda_endpoint.

supports_multiple_types = **False**

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.viewport_mode module

class ask_smapi_model.v1.skill.manifest.viewport_mode.**ViewportMode**
 Bases: `enum.Enum`

Defines the mode of viewport that comply with this specification. E.g. HUB TV.

Allowed enum values: [HUB, TV]

```

HUB = 'HUB'
TV = 'TV'
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.manifest.viewport_shape module

```

class ask_smapi_model.v1.skill.manifest.viewport_shape.ViewportShape
    Bases: enum.Enum

    Defines the shape of the device's viewport.

    Allowed enum values: [RECTANGLE, ROUND]

    RECTANGLE = 'RECTANGLE'
    ROUND = 'ROUND'

    to_dict()
        Returns the model properties as a dict
    to_str()
        Returns the string representation of the model

```

ask_smapi_model.v1.skill.manifest.viewport_specification module

```

class ask_smapi_model.v1.skill.manifest.viewport_specification.ViewportSpecification (mode=Mode,
    shape=Shape, min_width=int, max_width=int, min_height=int, max_height=int)
    Bases: object

```

Defines a viewport specification.

Parameters

- **mode** ((*optional*) ask_smapi_model.v1.skill.manifest.viewport_mode.ViewportMode)–
- **shape** ((*optional*) ask_smapi_model.v1.skill.manifest.viewport_shape.ViewportShape)–
- **min_width** ((*optional*) *int*)– Defines the minimum width of viewport that comply with this specification.
- **max_width** ((*optional*) *int*)– Defines the maximum width of viewport that comply with this specification.
- **min_height** ((*optional*) *int*)– Defines the minimum height of viewport that comply with this specification.
- **max_height** ((*optional*) *int*)– Defines the maximum height of viewport that comply with this specification.

```

attribute_map = {'max_height': 'maxHeight', 'max_width': 'maxWidth', 'min_height':
deserialized_types = {'max_height': 'int', 'max_width': 'int', 'min_height': 'int',
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.metrics package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_smapi_model.v1.skill.metrics.get_metric_data_response module

```

class ask_smapi_model.v1.skill.metrics.get_metric_data_response.GetMetricDataResponse (metric
times-
tamps-
val-
ues=N
next_to

```

Bases: `object`

Response object for the API call which contains metrics data.

Parameters

- **metric** ((*optional*) `str`) – The name of metric which customer requested.
- **timestamps** ((*optional*) `list[datetime]`) – The timestamps for the data points.
- **values** ((*optional*) `list[float]`) – The data points for the metric corresponding to Timestamps.
- **next_token** ((*optional*) `str`) – A token that marks the next batch of returned results.

```

attribute_map = {'metric': 'metric', 'next_token': 'nextToken', 'timestamps': 'time
deserialized_types = {'metric': 'str', 'next_token': 'str', 'timestamps': 'list[dat
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

`ask_smapi_model.v1.skill.metrics.metric` module

class `ask_smapi_model.v1.skill.metrics.metric.Metric`

Bases: `enum.Enum`

A distinct set of logic which predictably returns a set of data.

Allowed enum values: [uniqueCustomers, totalEnablements, totalUtterances, successfulUtterances, failedUtterances, totalSessions, successfulSessions, incompleteSessions, userEndedSessions, skillEndedSessions]

failedUtterances = 'failedUtterances'

incompleteSessions = 'incompleteSessions'

skillEndedSessions = 'skillEndedSessions'

successfulSessions = 'successfulSessions'

successfulUtterances = 'successfulUtterances'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

totalEnablements = 'totalEnablements'

totalSessions = 'totalSessions'

totalUtterances = 'totalUtterances'

uniqueCustomers = 'uniqueCustomers'

userEndedSessions = 'userEndedSessions'

`ask_smapi_model.v1.skill.metrics.period` module

class `ask_smapi_model.v1.skill.metrics.period.Period`

Bases: `enum.Enum`

The aggregation period to use when retrieving the metric, follows ISO_8601#Durations format.

Allowed enum values: [SINGLE, PT15M, PT1H, P1D]

P1D = 'P1D'

PT15M = 'PT15M'

PT1H = 'PT1H'

SINGLE = 'SINGLE'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.metrics.skill_type module

class ask_smapi_model.v1.skill.metrics.skill_type.**SkillType**

Bases: `enum.Enum`

The type of the skill (custom, smartHome and flashBriefing).

Allowed enum values: [custom, smartHome, flashBriefing]

custom = 'custom'

flashBriefing = 'flashBriefing'

smartHome = 'smartHome'

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_smapi_model.v1.skill.metrics.stage_for_metric module

class ask_smapi_model.v1.skill.metrics.stage_for_metric.**StageForMetric**

Bases: `enum.Enum`

The stage of the skill (live, development).

Allowed enum values: [live, development]

development = 'development'

live = 'live'

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_smapi_model.v1.skill.private package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_smapi_model.v1.skill.private.accept_status module

class ask_smapi_model.v1.skill.private.accept_status.**AcceptStatus**

Bases: `enum.Enum`

Enterprise IT administrators' action on the private distribution.

Allowed enum values: [ACCEPTED, PENDING]

ACCEPTED = 'ACCEPTED'

PENDING = 'PENDING'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.private.list_private_distribution_accounts_response module

class ask_smapi_model.v1.skill.private.list_private_distribution_accounts_response.**ListPrivateDistributionAccountsResponse**

Bases: `object`

Response of ListPrivateDistributionAccounts.

Parameters

- **links** (*optional*) ask_smapi_model.v1.links.Links) –
- **private_distribution_accounts** (*optional*) list[ask_smapi_model.v1.skill.private.private_distribution_account.PrivateDistributionAccount] – List of PrivateDistributionAccounts.
- **next_token** (*optional*) str) –

attribute_map = {'links': '_links', 'next_token': 'nextToken', 'private_distribution_accounts': 'privateDistributionAccounts'}

deserialized_types = {'links': 'ask_smapi_model.v1.links.Links', 'next_token': 'str', 'private_distribution_accounts': 'list[ask_smapi_model.v1.skill.private.private_distribution_account.PrivateDistributionAccount]'}

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.private.private_distribution_account module

class ask_smapi_model.v1.skill.private.private_distribution_account.**PrivateDistributionAccount**

Bases: `object`

Contains information of the private distribution account with given id.

Parameters

- **principal** (*optional*) str) – 12-digit numerical account ID for AWS account holders.
- **accept_status** (*optional*) ask_smapi_model.v1.skill.private.accept_status.AcceptStatus) –

attribute_map = {'accept_status': 'acceptStatus', 'principal': 'principal'}


```

deserialized_types = {'accept_status': 'ask_smapi_model.v1.skill.private.accept_status'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.simulations package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_smapi_model.v1.skill.simulations.alexa_execution_info module

```

class ask_smapi_model.v1.skill.simulations.alexa_execution_info.AlexaExecutionInfo(alexa_response.AlexaResponse)
    Bases: object
        Parameters alexa_responses ((optional) list[ask_smapi_model.v1.skill.simulations.alexa_response.AlexaResponse]) –
        attribute_map = {'alexa_responses': 'alexaResponses'}
        deserialized_types = {'alexa_responses': 'list[ask_smapi_model.v1.skill.simulations.alexa_response.AlexaResponse]'}
        supports_multiple_types = False
        to_dict()
            Returns the model properties as a dict
        to_str()
            Returns the string representation of the model

```

ask_smapi_model.v1.skill.simulations.alexa_response module

```

class ask_smapi_model.v1.skill.simulations.alexa_response.AlexaResponse(object_type=None, content=None)
    Bases: object
        Parameters
        • object_type ((optional) str) – The type of Alexa response
        • content ((optional) ask_smapi_model.v1.skill.simulations.alexa_response_content.AlexaResponseContent) – The detail information needs to exposed in this type of Alexa response.
        attribute_map = {'content': 'content', 'object_type': 'type'}

```

```

deserialized_types = {'content': 'ask_smapi_model.v1.skill.simulations.alexa_response_content'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.simulations.alexa_response_content module

```

class ask_smapi_model.v1.skill.simulations.alexa_response_content.AlexaResponseContent (caption=None)
    Bases: object

    Parameters caption ((optional) str) – The plain text get from Alexa speech response

    attribute_map = {'caption': 'caption'}
    deserialized_types = {'caption': 'str'}
    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model

```

ask_smapi_model.v1.skill.simulations.device module

```

class ask_smapi_model.v1.skill.simulations.device.Device (locale=None)
    Bases: object

    Model of a virtual device used for simulation. This device object emulates attributes associated with a real Alexa enabled device.

    Parameters locale ((optional) str) – A valid locale (e.g "en-US") for the virtual device used in simulation.

    attribute_map = {'locale': 'locale'}
    deserialized_types = {'locale': 'str'}
    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model

```

ask_smapi_model.v1.skill.simulations.input module

```

class ask_smapi_model.v1.skill.simulations.input.Input (content=None)
    Bases: object

    Parameters content ((optional) str) – A string corresponding to the utterance text of what a customer would say to Alexa.

```

```

attribute_map = {'content': 'content'}
deserialized_types = {'content': 'str'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.simulations.invocation_request module

```

class ask_smapi_model.v1.skill.simulations.invocation_request.InvocationRequest (endpoint=None,
                                                                                    body=None)

```

Bases: `object`

Parameters

- **endpoint** (*optional* `str`) – Skill’s Lambda or HTTPS endpoint.
- **body** (*optional* `dict(str, object)`) – JSON payload that was sent to the skill’s Lambda or HTTPS endpoint.

```

attribute_map = {'body': 'body', 'endpoint': 'endpoint'}
deserialized_types = {'body': 'dict(str, object)', 'endpoint': 'str'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.simulations.invocation_response module

```

class ask_smapi_model.v1.skill.simulations.invocation_response.InvocationResponse (body=None)

```

Bases: `object`

Parameters **body** (*optional* `dict(str, object)`) – Payload that was returned by the skill’s Lambda or HTTPS endpoint.

```

attribute_map = {'body': 'body'}
deserialized_types = {'body': 'dict(str, object)'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.simulations.invocations module

ask_smapi_model.v1.skill.simulations.metrics module

```
class ask_smapi_model.v1.skill.simulations.metrics.Metrics (skill_execution_time_in_milliseconds=None)
    Bases: object

    Parameters skill_execution_time_in_milliseconds ((optional) int) – How
        long, in milliseconds, it took the skill’s Lambda or HTTPS endpoint to process the request.

    attribute_map = {'skill_execution_time_in_milliseconds': 'skillExecutionTimeInMillise
    deserialized_types = {'skill_execution_time_in_milliseconds': 'int'}
    supports_multiple_types = False

    to_dict ()
        Returns the model properties as a dict

    to_str ()
        Returns the string representation of the model
```

ask_smapi_model.v1.skill.simulations.session module

```
class ask_smapi_model.v1.skill.simulations.session.Session (mode=None)
    Bases: object

    Session settings for running current simulation.

    Parameters mode ((optional) ask_smapi_model.v1.skill.simulations.
        session_mode.SessionMode)–

    attribute_map = {'mode': 'mode'}
    deserialized_types = {'mode': 'ask_smapi_model.v1.skill.simulations.session_mode.Sess
    supports_multiple_types = False

    to_dict ()
        Returns the model properties as a dict

    to_str ()
        Returns the string representation of the model
```

ask_smapi_model.v1.skill.simulations.session_mode module

```
class ask_smapi_model.v1.skill.simulations.session_mode.SessionMode
    Bases: enum.Enum

    Indicate the session mode of the current simulation is using.

    Allowed enum values: [DEFAULT, FORCE_NEW_SESSION]

    DEFAULT = 'DEFAULT'
    FORCE_NEW_SESSION = 'FORCE_NEW_SESSION'

    to_dict ()
        Returns the model properties as a dict
```

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.simulations.simulation_result` module

class `ask_smapi_model.v1.skill.simulations.simulation_result.SimulationResult` (*alexa_execution_info*, *skill_execution_info*, *error=None*)

Bases: `object`

Parameters

- **alexa_execution_info** ((*optional*) `ask_smapi_model.v1.skill.simulations.alexa_execution_info.AlexaExecutionInfo`)–
- **skill_execution_info** ((*optional*) `ask_smapi_model.v1.skill.simulations.invocation.Invocation`)–
- **error** ((*optional*) `ask_smapi_model.v1.error.Error`)–

`attribute_map` = {'alexa_execution_info': 'alexaExecutionInfo', 'error': 'error', 'sk

`deserialized_types` = {'alexa_execution_info': 'ask_smapi_model.v1.skill.simulations.a

`supports_multiple_types` = `False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.simulations.simulations_api_request` module

class `ask_smapi_model.v1.skill.simulations.simulations_api_request.SimulationsApiRequest` (*input*, *device*, *session*)

Bases: `object`

Parameters

- **input** ((*optional*) `ask_smapi_model.v1.skill.simulations.input.Input`)–
- **device** ((*optional*) `ask_smapi_model.v1.skill.simulations.device.Device`)–
- **session** ((*optional*) `ask_smapi_model.v1.skill.simulations.session.Session`)–

`attribute_map` = {'device': 'device', 'input': 'input', 'session': 'session'}

`deserialized_types` = {'device': 'ask_smapi_model.v1.skill.simulations.device.Device',

`supports_multiple_types` = `False`

`to_dict()`
Returns the model properties as a dict

```
to_str()
    Returns the string representation of the model
```

`ask_smapi_model.v1.skill.simulations.simulations_api_response` module

```
class ask_smapi_model.v1.skill.simulations.simulations_api_response.SimulationsApiResponse
```

Bases: `object`

Parameters

- **id** (*optional*) `str` – Id of the simulation resource.
- **status** (*optional*) `ask_smapi_model.v1.skill.simulations.simulations_api_response_status.SimulationsApiResponseStatus` –
- **result** (*optional*) `ask_smapi_model.v1.skill.simulations.simulation_result.SimulationResult` –

```
attribute_map = {'id': 'id', 'result': 'result', 'status': 'status'}
```

```
deserialized_types = {'id': 'str', 'result': 'ask_smapi_model.v1.skill.simulations.s
```

```
supports_multiple_types = False
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

`ask_smapi_model.v1.skill.simulations.simulations_api_response_status` module

```
class ask_smapi_model.v1.skill.simulations.simulations_api_response_status.SimulationsApiResponseStatus
```

Bases: `enum.Enum`

String that specifies the current status of the simulation. Possible values are `"IN_PROGRESS"`, `"SUCCESSFUL"`, and `"FAILED"`.

Allowed enum values: [IN_PROGRESS, SUCCESSFUL, FAILED]

```
FAILED = 'FAILED'
```

```
IN_PROGRESS = 'IN_PROGRESS'
```

```
SUCCESSFUL = 'SUCCESSFUL'
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.validations package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_smapi_model.v1.skill.validations.response_validation module

class `ask_smapi_model.v1.skill.validations.response_validation.ResponseValidation` (*title=None, description=None, category=None, locale=None, importance=None, status=None*)

Bases: `object`

Parameters

- **title** (*optional str*) – Short, human readable title of the validation performed.
- **description** (*optional str*) – Human readable description of the validation performed. May include instructions to address validation failure.
- **category** (*optional str*) – Dot-delimited category.
- **locale** (*optional str*) – Locale of the validation.
- **importance** (*optional ask_smapi_model.v1.skill.validations.response_validation_importance.ResponseValidationImportance*) –
- **status** (*optional ask_smapi_model.v1.skill.validations.response_validation_status.ResponseValidationStatus*) –

attribute_map = {'category': 'category', 'description': 'description', 'importance':

deserialized_types = {'category': 'str', 'description': 'str', 'importance': 'ask_s

supports_multiple_types = **False**

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.validations.response_validation_importance module

```
class ask_smapi_model.v1.skill.validations.response_validation_importance.ResponseValidationImportance
    Bases: enum.Enum

    String that specifies importance of the validation. Possible values are &quot;REQUIRED&quot; and
    &quot;RECOMMENDED&quot;;

    Allowed enum values: [REQUIRED, RECOMMENDED]

    RECOMMENDED = 'RECOMMENDED'

    REQUIRED = 'REQUIRED'

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model
```

ask_smapi_model.v1.skill.validations.response_validation_status module

```
class ask_smapi_model.v1.skill.validations.response_validation_status.ResponseValidationStatus
    Bases: enum.Enum

    String that specifies status of the validation. Possible values are &quot;SUCCESSFUL&quot; and
    &quot;FAILED&quot;;

    Allowed enum values: [SUCCESSFUL, FAILED]

    FAILED = 'FAILED'

    SUCCESSFUL = 'SUCCESSFUL'

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model
```

ask_smapi_model.v1.skill.validations.validations_api_request module

```
class ask_smapi_model.v1.skill.validations.validations_api_request.ValidationsApiRequest (Localizable)
    Bases: object

    Parameters locales ((optional) list[str]) –
    locales

    attribute_map = {'locales': 'locales'}

    deserialized_types = {'locales': 'list[str]'}

    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model
```


ask_smapi_model.v1.skill.validations.validations_api_response module

```
class ask_smapi_model.v1.skill.validations.validations_api_response.ValidationsApiResponse
```

Bases: `object`

Parameters

- **id** *((optional) str)* – Id of the validation resource.
- **status** *((optional) ask_smapi_model.v1.skill.validations.validations_api_response_status.ValidationsApiResponseStatus)*
–
- **result** *((optional) ask_smapi_model.v1.skill.validations.validations_api_response_result.ValidationsApiResponseResult)*
–

```
attribute_map = {'id': 'id', 'result': 'result', 'status': 'status'}
```

```
deserialized_types = {'id': 'str', 'result': 'ask_smapi_model.v1.skill.validations.v
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.validations.validations_api_response_result module

```
class ask_smapi_model.v1.skill.validations.validations_api_response_result.ValidationsApiResponseResult
```

Bases: `object`

Parameters

- **validations** *((optional) list[ask_smapi_model.v1.skill.validations.response_validation.ResponseValidation])* –
- **error** *((optional) ask_smapi_model.v1.error.Error)* –

```
attribute_map = {'error': 'error', 'validations': 'validations'}
```

```
deserialized_types = {'error': 'ask_smapi_model.v1.error.Error', 'validations': 'lis
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.validations.validations_api_response_status module

class ask_smapi_model.v1.skill.validations.validations_api_response_status.**ValidationsApiResponseStatus**

Bases: `enum.Enum`

String that specifies the current status of validation execution. Possible values are `"IN_PROGRESS"`, `"SUCCESSFUL"`, and `"FAILED"`.

Allowed enum values: [IN_PROGRESS, SUCCESSFUL, FAILED]

FAILED = 'FAILED'

IN_PROGRESS = 'IN_PROGRESS'

SUCCESSFUL = 'SUCCESSFUL'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_smapi_model.v1.skill.action module

class ask_smapi_model.v1.skill.action.**Action**

Bases: `enum.Enum`

Action of a resource.

Allowed enum values: [CREATE, UPDATE, ASSOCIATE, DISASSOCIATE]

ASSOCIATE = 'ASSOCIATE'

CREATE = 'CREATE'

DISASSOCIATE = 'DISASSOCIATE'

UPDATE = 'UPDATE'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.agreement_type module

class ask_smapi_model.v1.skill.agreement_type.**AgreementType**

Bases: `enum.Enum`

Type of the agreement that the customer must be compliant to.

Allowed enum values: [EXPORT_COMPLIANCE]

EXPORT_COMPLIANCE = 'EXPORT_COMPLIANCE'

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_smapi_model.v1.skill.build_details module

class ask_smapi_model.v1.skill.build_details.**BuildDetails** (*steps=None*)

Bases: `object`

Contains array which describes steps involved in a build. Elements (or build steps) are added to this array as they become IN_PROGRESS.

Parameters **steps** ((*optional*) *list*[ask_smapi_model.v1.skill.build_step.BuildStep]) – An array where each element represents a build step.

attribute_map = {'steps': 'steps'}

deserialized_types = {'steps': 'list[ask_smapi_model.v1.skill.build_step.BuildStep]'}

supports_multiple_types = **False**

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_smapi_model.v1.skill.build_step module

class ask_smapi_model.v1.skill.build_step.**BuildStep** (*name=None, status=None, errors=None*)

Bases: `object`

Describes the status of a build step.

Parameters

• **name** ((*optional*) ask_smapi_model.v1.skill.build_step_name.BuildStepName) –

• **status** ((*optional*) ask_smapi_model.v1.skill.status.Status) –

• **errors** ((*optional*) *list*[ask_smapi_model.v1.skill.standardized_error.StandardizedError]) –

attribute_map = {'errors': 'errors', 'name': 'name', 'status': 'status'}

deserialized_types = {'errors': 'list[ask_smapi_model.v1.skill.standardized_error.Sta

```

supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_smapi_model.v1.skill.build_step_name module

```

class ask_smapi_model.v1.skill.build_step_name.BuildStepName
    Bases: enum.Enum

    Name of the build step. Possible values - * DIALOG_MODEL_BUILD; - Build status for
    dialog model. * LANGUAGE_MODEL_QUICK_BUILD; - Build status for FST model. *
    LANGUAGE_MODEL_FULL_BUILD; - Build status for statistical model.

    Allowed enum values: [DIALOG_MODEL_BUILD, LANGUAGE_MODEL_QUICK_BUILD, LAN-
    GUAGE_MODEL_FULL_BUILD]

    DIALOG_MODEL_BUILD = 'DIALOG_MODEL_BUILD'

    LANGUAGE_MODEL_FULL_BUILD = 'LANGUAGE_MODEL_FULL_BUILD'

    LANGUAGE_MODEL_QUICK_BUILD = 'LANGUAGE_MODEL_QUICK_BUILD'

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model
    
```

ask_smapi_model.v1.skill.create_skill_request module

```

class ask_smapi_model.v1.skill.create_skill_request.CreateSkillRequest (vendor_id=None,
                                                                    man-
                                                                    i-
                                                                    fest=None,
                                                                    host-
                                                                    ing=None)
    Bases: object
    
```

Parameters

- **vendor_id** (*optional*) `str` – ID of the vendor owning the skill.
- **manifest** (*optional*) `ask_smapi_model.v1.skill.manifest.skill_manifest.SkillManifest` –
- **hosting** (*optional*) `ask_smapi_model.v1.skill.alex_hosted.hosting_configuration.HostingConfiguration` –

```

attribute_map = {'hosting': 'hosting', 'manifest': 'manifest', 'vendor_id': 'vendor
deserialized_types = {'hosting': 'ask_smapi_model.v1.skill.alex_hosted.hosting_conf
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict
    
```

`to_str()`
Returns the string representation of the model

ask_smapi_model.v1.skill.create_skill_response module

```
class ask_smapi_model.v1.skill.create_skill_response.CreateSkillResponse (skill_id=None)
    Bases: object
    SkillId information.
        Parameters skill_id ((optional) str) – ID of the skill created.
attribute_map = {'skill_id': 'skillId'}
deserialized_types = {'skill_id': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.create_skill_with_package_request module

```
class ask_smapi_model.v1.skill.create_skill_with_package_request.CreateSkillWithPackageReq
    Bases: object
        Parameters
            • vendor_id ((optional) str) – ID of the vendor owning the skill.
            • location ((optional) str) – The URL for the skill package.
attribute_map = {'location': 'location', 'vendor_id': 'vendorId'}
deserialized_types = {'location': 'str', 'vendor_id': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.export_response module

```
class ask_smapi_model.v1.skill.export_response.ExportResponse (status=None,
    skill=None)
    Bases: object
        Parameters
            • status ((optional) ask_smapi_model.v1.skill.response_status.
                ResponseStatus) –
```

```

    • skill ((optional) ask_smapi_model.v1.skill.export_response_skill.ExportResponseSkill)-
attribute_map = {'skill': 'skill', 'status': 'status'}
deserialized_types = {'skill': 'ask_smapi_model.v1.skill.export_response_skill.ExportResponseSkill'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.export_response_skill module

```

class ask_smapi_model.v1.skill.export_response_skill.ExportResponseSkill (e_tag=None, location=None, expires_at=None)

```

Bases: object

Defines the structure of the GetExport response.

Parameters

- **e_tag** ((optional) str)-
- **location** ((optional) str)-
- **expires_at** ((optional) str)- ExpiresAt timestamp in milliseconds.

```

attribute_map = {'e_tag': 'eTag', 'expires_at': 'expiresAt', 'location': 'location'}
deserialized_types = {'e_tag': 'str', 'expires_at': 'str', 'location': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.image_attributes module

```

class ask_smapi_model.v1.skill.image_attributes.ImageAttributes (dimension=None, size=None)

```

Bases: object

Set of properties of the image provided by the customer.

Parameters

- **dimension** ((optional) ask_smapi_model.v1.skill.image_dimension.ImageDimension)-
- **size** ((optional) ask_smapi_model.v1.skill.image_size.ImageSize)-

```

attribute_map = {'dimension': 'dimension', 'size': 'size'}
deserialized_types = {'dimension': 'ask_smapi_model.v1.skill.image_dimension.ImageDim
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.image_dimension module

```

class ask_smapi_model.v1.skill.image_dimension.ImageDimension (width_in_pixels=None,
                                                                height_in_pixels=None)

```

Bases: `object`

Dimensions of an image.

Parameters

- **width_in_pixels** ((*optional*) *int*) – Width of the image in pixels.
- **height_in_pixels** ((*optional*) *int*) – Height of the image in pixels.

```

attribute_map = {'height_in_pixels': 'heightInPixels', 'width_in_pixels': 'widthInPi
deserialized_types = {'height_in_pixels': 'int', 'width_in_pixels': 'int'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.image_size module

```

class ask_smapi_model.v1.skill.image_size.ImageSize (value=None, unit=None)

```

Bases: `object`

On disk storage size of image.

Parameters

- **value** ((*optional*) *float*) – Value measuring the size of the image.
- **unit** ((*optional*) `ask_smapi_model.v1.skill.image_size_unit.ImageSizeUnit`) –

```

attribute_map = {'unit': 'unit', 'value': 'value'}
deserialized_types = {'unit': 'ask_smapi_model.v1.skill.image_size_unit.ImageSizeUnit
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.image_size_unit module

class ask_smapi_model.v1.skill.image_size_unit.**ImageSizeUnit**

Bases: `enum.Enum`

Unit of measurement for size of image.

Allowed enum values: [MB]

MB = 'MB'

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_smapi_model.v1.skill.import_response module

class ask_smapi_model.v1.skill.import_response.**ImportResponse** (*status=None, errors=None, warnings=None, skill=None*)

Bases: `object`

Parameters

- **status** ((*optional*) `ask_smapi_model.v1.skill.response_status.ResponseStatus`)-
- **errors** ((*optional*) `list[ask_smapi_model.v1.skill.standardized_error.StandardizedError]`)-
- **warnings** ((*optional*) `list[ask_smapi_model.v1.skill.standardized_error.StandardizedError]`)-
- **skill** ((*optional*) `ask_smapi_model.v1.skill.import_response_skill.ImportResponseSkill`)-

attribute_map = {'errors': 'errors', 'skill': 'skill', 'status': 'status', 'warning

deserialized_types = {'errors': 'list[ask_smapi_model.v1.skill.standardized_error.Sta

supports_multiple_types = **False**

to_dict ()

Returns the model properties as a dict

to_str ()

Returns the string representation of the model

ask_smapi_model.v1.skill.import_response_skill module

class ask_smapi_model.v1.skill.import_response_skill.**ImportResponseSkill** (*skill_id=None, e_tag=None, re-sources=None*)

Bases: `object`

Parameters

- **skill_id**((*optional*) *str*)-
- **e_tag**((*optional*) *str*)-
- **resources** ((*optional*) *list*[ask_smapi_model.v1.skill.resource_import_status.ResourceImportStatus])-

attribute_map = {'e_tag': 'eTag', 'resources': 'resources', 'skill_id': 'skillId'}

deserialized_types = {'e_tag': 'str', 'resources': 'list[ask_smapi_model.v1.skill.re

supports_multiple_types = **False**

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.instance module

class ask_smapi_model.v1.skill.instance.**Instance**(*property_path=None*,
data_type=None, *value=None*)

Bases: `object`

Structure representing properties of an instance of data. Definition will be either one of a `booleanInstance`, `stringInstance`, `integerInstance`, or `compoundInstance`.

Parameters

- **property_path**((*optional*) *str*)- Path that uniquely identifies the instance in the resource.
- **data_type** ((*optional*) ask_smapi_model.v1.skill.validation_data_types.ValidationDataTypes)-
- **value**((*optional*) *str*)- String value of the instance. In case of null, object or array the value field would be null or not present. In case of string, boolean or integer data type it will be the corresponding String value.

attribute_map = {'data_type': 'dataType', 'property_path': 'propertyPath', 'value':

deserialized_types = {'data_type': 'ask_smapi_model.v1.skill.validation_data_types.Va

supports_multiple_types = **False**

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.interface_definition module

ask_smapi_model.v1.skill.interface_intent module

ask_smapi_model.v1.skill.last_update_request module

ask_smapi_model.v1.skill.list_skill_response module

```
class ask_smapi_model.v1.skill.list_skill_response.ListSkillResponse (links=None,
                                                                    skills=None,
                                                                    is_truncated=None,
                                                                    next_token=None)
```

Bases: `object`

List of skills for the vendor.

Parameters

- **links** (*optional*) `ask_smapi_model.v1.links.Links` –
- **skills** (*optional*) `list[ask_smapi_model.v1.skill.skill_summary.SkillSummary]` – List of skill summaries. List might contain either one, two or three entries for a given skillId depending on the skill’s publication history and the publication method. Skill containing certified stage; * If a skill was never published to live, this list will contain two entries; one with stage ‘development’ and another with stage ‘certified’. Both of these summaries will have same skillId. * For any skill that has been published to ‘live’, this list will contain three entries; one with stage ‘development’, one with stage ‘certified’; and one with stage ‘live’. All of these summaries will have same skillId. Skill without certified stage; * If a skill was never published to live, this list will contain only one entry for the skill with stage as ‘development’. * For any skill that has been published to ‘live’, this list will contain two entries; one with stage ‘development’ and another with stage ‘live’. Both of these summaries will have same skillId.
- **is_truncated** (*optional*) `bool` –
- **next_token** (*optional*) `str` –

```
attribute_map = {'is_truncated': 'isTruncated', 'links': '_links', 'next_token': 'nextToken'}
```

```
deserialized_types = {'is_truncated': 'bool', 'links': 'ask_smapi_model.v1.links.Links', 'next_token': 'str'}
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.publication_method module

```
class ask_smapi_model.v1.skill.publication_method.PublicationMethod
```

Bases: `enum.Enum`

Determines if the skill should be submitted only for certification and manually publish later or publish immediately after the skill is certified. Omitting the publication method will default to auto publishing.

Allowed enum values: [MANUAL_PUBLISHING, AUTO_PUBLISHING]

```
AUTO_PUBLISHING = 'AUTO_PUBLISHING'
```

```
MANUAL_PUBLISHING = 'MANUAL_PUBLISHING'
```

```
to_dict ()
```

Returns the model properties as a dict

```

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.reason module

```

class ask_smapi_model.v1.skill.reason.Reason
    Bases: enum.Enum

    The reason to withdraw.

    Allowed enum values: [TEST_SKILL, MORE_FEATURES, DISCOVERED_ISSUE,
    NOT_RECEIVED_CERTIFICATION_FEEDBACK, NOT_INTEND_TO_PUBLISH, OTHER]

    DISCOVERED_ISSUE = 'DISCOVERED_ISSUE'
    MORE_FEATURES = 'MORE_FEATURES'
    NOT_INTEND_TO_PUBLISH = 'NOT_INTEND_TO_PUBLISH'
    NOT_RECEIVED_CERTIFICATION_FEEDBACK = 'NOT_RECEIVED_CERTIFICATION_FEEDBACK'
    OTHER = 'OTHER'
    TEST_SKILL = 'TEST_SKILL'

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model

```

ask_smapi_model.v1.skill.regional_ssl_certificate module

```

class ask_smapi_model.v1.skill.regional_ssl_certificate.RegionalSSLCertificate (ssl_certificate=N)
    Bases: object

    Parameters ssl_certificate (optional str)-

    attribute_map = {'ssl_certificate': 'sslCertificate'}
    deserialized_types = {'ssl_certificate': 'str'}
    supports_multiple_types = False

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model

```

ask_smapi_model.v1.skill.resource_import_status module

```
class ask_smapi_model.v1.skill.resource_import_status.ResourceImportStatus (name=None,
                                                                    sta-
                                                                    tus=None,
                                                                    ac-
                                                                    tion=None,
                                                                    er-
                                                                    rors=None,
                                                                    warn-
                                                                    ings=None)
```

Bases: `object`

Defines the structure for a resource deployment status.

Parameters

- **name** ((*optional*) *str*) – Resource name. eg. manifest, interactionModels.en_US and so on.
- **status** ((*optional*) `ask_smapi_model.v1.skill.response_status.ResponseStatus`)–
- **action**((*optional*) `ask_smapi_model.v1.skill.action.Action`)–
- **errors** ((*optional*) `list[ask_smapi_model.v1.skill.standardized_error.StandardizedError]`)–
- **warnings** ((*optional*) `list[ask_smapi_model.v1.skill.standardized_error.StandardizedError]`)–

```
attribute_map = {'action': 'action', 'errors': 'errors', 'name': 'name', 'status':
```

```
deserialized_types = {'action': 'ask_smapi_model.v1.skill.action.Action', 'errors':
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.resource_status module

ask_smapi_model.v1.skill.response_status module

```
class ask_smapi_model.v1.skill.response_status.ResponseStatus
```

Bases: `enum.Enum`

Status for a Response resource.

Allowed enum values: [FAILED, IN_PROGRESS, SUCCEEDED, ROLLBACK_SUCCEEDED, ROLLBACK_FAILED, SKIPPED]

```
FAILED = 'FAILED'
```

```
IN_PROGRESS = 'IN_PROGRESS'
```

```
ROLLBACK_FAILED = 'ROLLBACK_FAILED'
```

```
ROLLBACK_SUCCEEDED = 'ROLLBACK_SUCCEEDED'
```

```
SKIPPED = 'SKIPPED'
```

```
SUCCEEDED = 'SUCCEEDED'
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.skill_interaction_model module

ask_smapi_model.v1.skill.skill_interaction_model_status module

```
class ask_smapi_model.v1.skill.skill_interaction_model_status.SkillInteractionModelStatus (
```

Bases: `object`

Defines the structure for interaction model build status.

Parameters

- **last_update_request** ((optional) `ask_smapi_model.v1.skill.interaction_model_last_update_request.InteractionModelLastUpdateRequest`)–
- **e_tag** ((optional) `str`)– An opaque identifier for last successfully updated resource.
- **version** ((optional) `str`)– Version for last successfully built model.

```
attribute_map = {'e_tag': 'eTag', 'last_update_request': 'lastUpdateRequest', 'versi
```

```
deserialized_types = {'e_tag': 'str', 'last_update_request': 'ask_smapi_model.v1.ski
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.skill_status module

```
class ask_smapi_model.v1.skill.skill_status.SkillStatus (manifest=None, interaction_model=None,
                                                         hosted_skill_deployment=None,
                                                         hosted_skill_provisioning=None)
```

Bases: `object`

Defines the structure for skill status response.

Parameters

- **manifest** ((optional) `ask_smapi_model.v1.skill.manifest_status.ManifestStatus`)–

- **interaction_model** ((optional) dict(str, ask_smapi_model.v1.skill.skill_interaction_model_status.SkillInteractionModelStatus)) – Status for available interaction models, keyed by locale.
- **hosted_skill_deployment** ((optional) ask_smapi_model.v1.skill.hosted_skill_deployment_status.HostedSkillDeploymentStatus)–
- **hosted_skill_provisioning** ((optional) ask_smapi_model.v1.skill.hosted_skill_provisioning_status.HostedSkillProvisioningStatus)–

```
attribute_map = {'hosted_skill_deployment': 'hostedSkillDeployment', 'hosted_skill_pr
```

```
deserialized_types = {'hosted_skill_deployment': 'ask_smapi_model.v1.skill.hosted_ski
```

```
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.skill_summary module

```
class ask_smapi_model.v1.skill.skill_summary.SkillSummary(skill_id=None,
                                                         apis=None, publication_status=None,
                                                         last_updated=None,
                                                         name_by_locale=None,
                                                         asin=None,
                                                         links=None)
```

Bases: object

Information about the skills.

Parameters

- **skill_id**((optional) str)–
- **apis** ((optional) list[ask_smapi_model.v1.skill.skill_summary_apis.SkillSummaryApis]) – List of APIs currently implemented by the skill.
- **publication_status** ((optional) ask_smapi_model.v1.skill.publication_status.PublicationStatus)–
- **last_updated**((optional) datetime)–
- **name_by_locale** ((optional) dict(str, str)) – Name of the skill in skill locales (keys are locale names (e.g. 'en-US') whereas values are name of the skill in that locale.
- **asin** ((optional) str) – Amazon Standard Identification Number (ASIN) is unique blocks of 10 letters and/or numbers that identify items. More info about ASIN can be found here: <https://www.amazon.com/gp/seller/asin-upc-isbn-info.html> ASIN is available for those skills only, that have been published, at least once.
- **links** ((optional) ask_smapi_model.v1.links.Links)–

```
attribute_map = {'apis': 'apis', 'asin': 'asin', 'last_updated': 'lastUpdated', 'li
```

```

deserialized_types = {'apis': 'list[ask_smapi_model.v1.skill.skill_summary_apis.SkillSummaryApis]'}
supports_multiple_types = False

to_dict()
    Returns the model properties as a dict

to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.skill.skill_summary_apis module

```

class ask_smapi_model.v1.skill.skill_summary_apis.SkillSummaryApis
    Bases: enum.Enum

    Allowed enum values: [custom, smartHome, flashBriefing, video, music, householdList, health, alexaForBusiness]

    alexaForBusiness = 'alexaForBusiness'
    custom = 'custom'
    flashBriefing = 'flashBriefing'
    health = 'health'
    householdList = 'householdList'
    music = 'music'
    smartHome = 'smartHome'

    to_dict()
        Returns the model properties as a dict

    to_str()
        Returns the string representation of the model

    video = 'video'

```

ask_smapi_model.v1.skill.ssl_certificate_payload module

```

class ask_smapi_model.v1.skill.ssl_certificate_payload.SSLCertificatePayload(ssl_certificate=None, regions=None)
    Bases: object

    Parameters
    • ssl_certificate ((optional) str) – The default ssl certificate for the skill. If a request is made for a region without an explicit ssl certificate, this certificate will be used.
    • regions ((optional) dict(str, ask_smapi_model.v1.skill.regional_ssl_certificate.RegionalSSLCertificate)) – A map of region to ssl certificate. Keys are string region codes (https://developer.amazon.com/docs/smapi/skill-manifest.html#regions), values are regional ssl certificate objects which contain the ssl certificate blobs as strings.

    attribute_map = {'regions': 'regions', 'ssl_certificate': 'sslCertificate'}
    deserialized_types = {'regions': 'dict(str, ask_smapi_model.v1.skill.regional_ssl_certificate.RegionalSSLCertificate)'}

```

```

supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
    
```

ask_smapi_model.v1.skill.standardized_error module

```

class ask_smapi_model.v1.skill.standardized_error.StandardizedError(validation_details=None,
                                                                    code=None,
                                                                    mes-
                                                                    sage=None)
    
```

Bases: `ask_smapi_model.v1.error.Error`

Standardized structure which wraps machine parsable and human readable information about an error.

Parameters

- **validation_details** ((*optional*) `ask_smapi_model.v1.skill.validation_details.ValidationDetails`) – Standardized, machine readable structure that wraps all the information about a specific occurrence of an error of the type specified by the code.
- **code** ((*optional*) `str`) – Error code that maps to an error message. Developers with different locales should be able to lookup the error description based on this code.
- **message** ((*optional*) `str`) – Readable description of error. If standardized, this is generated from the error code and validation details.

```

attribute_map = {'code': 'code', 'message': 'message', 'validation_details': 'valid
deserialized_types = {'code': 'str', 'message': 'str', 'validation_details': 'ask_s
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
    
```

ask_smapi_model.v1.skill.standardized_error_code module

ask_smapi_model.v1.skill.status module

```

class ask_smapi_model.v1.skill.status.Status
    Bases: enum.Enum
    Status of a resource.
    Allowed enum values: [FAILED, IN_PROGRESS, SUCCEEDED]
    FAILED = 'FAILED'
    IN_PROGRESS = 'IN_PROGRESS'
    SUCCEEDED = 'SUCCEEDED'
    
```


`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.submit_skill_for_certification_request` module

`class ask_smapi_model.v1.skill.submit_skill_for_certification_request.SubmitSkillForCertificationRequest`

Bases: `object`

Parameters

- **publication_method** ((*optional*) `ask_smapi_model.v1.skill.publication_method.PublicationMethod`) –
- **version_message** ((*optional*) `str`) – Description of the version (limited to 300 characters).

`attribute_map = {'publication_method': 'publicationMethod', 'version_message': 'versionMessage'}`

`deserialized_types = {'publication_method': 'ask_smapi_model.v1.skill.publication_method.PublicationMethod'}`

`supports_multiple_types = False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.update_skill_with_package_request` module

`class ask_smapi_model.v1.skill.update_skill_with_package_request.UpdateSkillWithPackageRequest`

Bases: `object`

Parameters `location` ((*optional*) `str`) – The URL for the skill package.

`attribute_map = {'location': 'location'}`

`deserialized_types = {'location': 'str'}`

`supports_multiple_types = False`

`to_dict()`
Returns the model properties as a dict

`to_str()`
Returns the string representation of the model

`ask_smapi_model.v1.skill.upload_response` module

`class ask_smapi_model.v1.skill.upload_response.UploadResponse` (`upload_url=None,`

`expires_at=None,`
`pires_at=None`)

Bases: `object`

Defines the structure for skill upload response.

Parameters

- `upload_url` (*optional* `str`) – The upload URL to upload a skill package.
- `expires_at` (*optional* `datetime`) –

```
attribute_map = {'expires_at': 'expiresAt', 'upload_url': 'uploadUrl'}
```

```
deserialized_types = {'expires_at': 'datetime', 'upload_url': 'str'}
```

```
supports_multiple_types = False
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

`ask_smapi_model.v1.skill.validation_data_types` module

```
class ask_smapi_model.v1.skill.validation_data_types.ValidationDataTypes
```

Bases: `enum.Enum`

Allowed enum values: [object, boolean, integer, array, string, null]

```
array = 'array'
```

```
boolean = 'boolean'
```

```
integer = 'integer'
```

```
null = 'null'
```

```
object = 'object'
```

```
string = 'string'
```

```
to_dict ()
```

Returns the model properties as a dict

```
to_str ()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.validation_details module

```
class ask_smapi_model.v1.skill.validation_details.ValidationDetails (actual_image_attributes=None,
ac-
tual_number_of_items=None,
ac-
tual_string_length=None,
al-
lowed_content_types=None,
al-
lowed_data_types=None,
al-
lowed_image_attributes=None,
conflict-
ing_instance=None,
ex-
pected_format=None,
ex-
pected_instance=None,
ex-
pected_regex_pattern=None,
agree-
ment_type=None,
fea-
ture=None,
inconsis-
tent_endpoint=None,
mini-
mum_integer_value=None,
mini-
mum_number_of_items=None,
mini-
mum_string_length=None,
maxi-
mum_integer_value=None,
maxi-
mum_number_of_items=None,
maxi-
mum_string_length=None,
origi-
nal_endpoint=None,
origi-
nal_instance=None,
rea-
son=None,
re-
quired_property=None,
unex-
pected_property=None)
```

Bases: `object`

Standardized, machine readable structure that wraps all the information about a specific occurrence of an error of the type specified by the code.

Parameters

- **actual_image_attributes** ((*optional*) `ask_smapi_model.v1.skill.image_attributes.ImageAttributes`) – Set of properties of the image provided by the customer.
- **actual_number_of_items** ((*optional*) `int`) – Number of items in an array provided by the customer.
- **actual_string_length** ((*optional*) `int`) – Number of characters in a string provided by the customer.
- **allowed_content_types** ((*optional*) `list[str]`) – List of allowed content types for a resource.
- **allowed_data_types** ((*optional*) `list[ask_smapi_model.v1.skill.validation_data_types.ValidationDataTypes]`) – List of allowed data types for an instance.
- **allowed_image_attributes** ((*optional*) `list[ask_smapi_model.v1.skill.image_attributes.ImageAttributes]`) – List of set of properties representing all possible allowed images.
- **conflicting_instance** ((*optional*) `ask_smapi_model.v1.skill.instance.Instance`) – Instance conflicting with another instance.
- **expected_format** ((*optional*) `ask_smapi_model.v1.skill.format.Format`) – Format in which instance value is expected in.
- **expected_instance** ((*optional*) `ask_smapi_model.v1.skill.instance.Instance`) – Instance that is expected by a related instance.
- **expected_regex_pattern** ((*optional*) `str`) – Regular expression that a string instance is expected to match.
- **agreement_type** ((*optional*) `ask_smapi_model.v1.skill.agreement_type.AgreementType`) – Type of the agreement that the customer must be compliant to.
- **feature** ((*optional*) `ask_smapi_model.v1.skill.validation_feature.ValidationFeature`) – Properties of a publicly known feature that has restricted access.
- **inconsistent_endpoint** ((*optional*) `ask_smapi_model.v1.skill.validation_endpoint.ValidationEndpoint`) – Endpoint which has a different value for property named type when compared to original endpoint.
- **minimum_integer_value** ((*optional*) `int`) – Minimum allowed value of an integer instance.
- **minimum_number_of_items** ((*optional*) `int`) – Minimum allowed number of items in an array.
- **minimum_string_length** ((*optional*) `int`) – Minimum allowed number of characters in a string.
- **maximum_integer_value** ((*optional*) `int`) – Maximum allowed value of an integer instance.
- **maximum_number_of_items** ((*optional*) `int`) – Maximum allowed number of items in an array.
- **maximum_string_length** ((*optional*) `int`) – Maximum allowed number of characters in a string.

- **original_endpoint** ((optional) `ask_smapi_model.v1.skill.validation_endpoint.ValidationEndpoint`) – An Endpoint instance
- **original_instance** ((optional) `ask_smapi_model.v1.skill.instance.Instance`) – An Instance
- **reason** ((optional) `ask_smapi_model.v1.skill.validation_failure_reason.ValidationFailureReason`) – Represents what is wrong in the request.
- **required_property** ((optional) `str`) – Property required but missing in the object.
- **unexpected_property** ((optional) `str`) – Property not expected but present in the object.

```
attribute_map = {'actual_image_attributes': 'actualImageAttributes', 'actual_number_o
deserialized_types = {'actual_image_attributes': 'ask_smapi_model.v1.skill.image_attr
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.validation_endpoint module

```
class ask_smapi_model.v1.skill.validation_endpoint.ValidationEndpoint (property_path=None,
                                                                    ob-
                                                                    ject_type=None,
                                                                    value=None)
```

Bases: `object`

Structure representing an endpoint.

Parameters

- **property_path** ((optional) `str`) – Path to the endpoint URI in the resource.
- **object_type** ((optional) `str`) – Type of the endpoint (https, http, arn etc).
- **value** ((optional) `str`) – Full URI of the endpoint.

```
attribute_map = {'object_type': 'type', 'property_path': 'propertyPath', 'value': '
deserialized_types = {'object_type': 'str', 'property_path': 'str', 'value': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.validation_feature module

class ask_smapi_model.v1.skill.validation_feature.**ValidationFeature** (*name=None, contact=None*)

Bases: `object`

Structure representing a public feature.

Parameters

- **name** (*optional*) `str` – Name of the feature.
- **contact** (*optional*) `str` – Contact URL or email for the feature.

attribute_map = {'contact': 'contact', 'name': 'name'}

deserialized_types = {'contact': 'str', 'name': 'str'}

supports_multiple_types = **False**

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.withdraw_request module

class ask_smapi_model.v1.skill.withdraw_request.**WithdrawRequest** (*reason=None, message=None*)

Bases: `object`

The payload for the withdraw operation.

Parameters

- **reason** (*optional*) `ask_smapi_model.v1.skill.reason.Reason` –
- **message** (*optional*) `str` – The message only in case the reason is OTHER.

attribute_map = {'message': 'message', 'reason': 'reason'}

deserialized_types = {'message': 'str', 'reason': 'ask_smapi_model.v1.skill.reason.Reason'}

supports_multiple_types = **False**

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.vendor_management package

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

ask_smapi_model.v1.vendor_management.vendor module

class `ask_smapi_model.v1.vendor_management.vendor.Vendor` (*name=None, id=None, roles=None*)

Bases: `object`

Vendor Response Object.

Parameters

- **name** (*optional str*) – Name of vendor.
- **id** (*optional str*) – Unique identifier of vendor associated with the API caller account.
- **roles** (*optional list[str]*) – Roles that user has for this vendor.

attribute_map = {'id': 'id', 'name': 'name', 'roles': 'roles'}

deserialized_types = {'id': 'str', 'name': 'str', 'roles': 'list[str]'}

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.vendor_management.vendors module

class `ask_smapi_model.v1.vendor_management.vendors.Vendors` (*vendors=None*)

Bases: `object`

List of Vendors.

Parameters vendors (*optional list[ask_smapi_model.v1.vendor_management.vendor.Vendor]*) –

attribute_map = {'vendors': 'vendors'}

deserialized_types = {'vendors': 'list[ask_smapi_model.v1.vendor_management.vendor.Vendor]'}

supports_multiple_types = False

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

Submodules

Note: Canonical imports have been added in the `__init__.py` of the package. This helps in importing the class directly from the package, than through the module.

For eg: if package `a` has module `b` with class `C`, you can do `from a import C` instead of `from a.b import C`.

`ask_smapi_model.v1.bad_request_error` module

class `ask_smapi_model.v1.bad_request_error.BadRequestError` (*message=None, violations=None*)

Bases: `object`

Parameters

- **message** (*optional*) `str` – Human readable description of error.
- **violations** (*optional*) `list[ask_smapi_model.v1.error.Error]` – An array of violation messages.

`attribute_map` = {'message': 'message', 'violations': 'violations'}

`deserialized_types` = {'message': 'str', 'violations': 'list[ask_smapi_model.v1.error

`supports_multiple_types` = `False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

`ask_smapi_model.v1.error` module

class `ask_smapi_model.v1.error.Error` (*code=None, message=None*)

Bases: `object`

Parameters

- **code** (*optional*) `str` – Error code that maps to an error message. Developers with different locales should be able to lookup the error description based on this code.
- **message** (*optional*) `str` – Readable description of error. If standardized, this is generated from the error code and validation details.

`attribute_map` = {'code': 'code', 'message': 'message'}

`deserialized_types` = {'code': 'str', 'message': 'str'}

`supports_multiple_types` = `False`

`to_dict()`

Returns the model properties as a dict

`to_str()`

Returns the string representation of the model

`ask_smapi_model.v1.link` module

class `ask_smapi_model.v1.link.Link` (*href=None*)

Bases: `object`

Parameters `href` (*optional*) `str` –


```

attribute_map = {'href': 'href'}
deserialized_types = {'href': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.links module

```

class ask_smapi_model.v1.links.Links (object_self=None, next=None)
    Bases: object

```

Links for the API navigation.

Parameters

- **object_self** ((optional) ask_smapi_model.v1.link.Link)–
- **next** ((optional) ask_smapi_model.v1.link.Link)–

```

attribute_map = {'next': 'next', 'object_self': 'self'}
deserialized_types = {'next': 'ask_smapi_model.v1.link.Link', 'object_self': 'ask_sm
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

```

ask_smapi_model.v1.stage_type module

```

class ask_smapi_model.v1.stage_type.StageType
    Bases: enum.Enum

```

Allowed enum values: [development, live]

```
development = 'development'
```

```
live = 'live'
```

```
to_dict()
    Returns the model properties as a dict
```

```
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.stage_v2_type module

```

class ask_smapi_model.v1.stage_v2_type.StageV2Type
    Bases: enum.Enum

```

Allowed enum values: [live, certified, development]

```
certified = 'certified'
```

```
development = 'development'
```

```
live = 'live'
```

```
to_dict()
```

Returns the model properties as a dict

```
to_str()
```

Returns the string representation of the model

CHAPTER 11

Got Feedback?

- We would like to hear about your bugs, feature requests, questions or quick feedback. Please search for [existing issues](#) before opening a new one. It would also be helpful if you follow the templates for issue and pull request creation. Please follow the [contributing guidelines](#) for pull requests!!
- Request and vote for [Alexa features](#)!

Additional Resources

12.1 Community

- [Amazon Developer Forums](#) : Join the conversation!
- [Hackster.io](#) - See what others are building with Alexa.

12.2 Tutorials & Guides

- [Voice Design Guide](#) - A great resource for learning conversational and voice user interface design.

CHAPTER 13

Indices and tables

- `genindex`
- `modindex`

Python Module Index

a

`ask_sdk.standard`, 39

`ask_sdk_core.api_client`, 27

`ask_sdk_core.dispatch_components.exception_components`, 17

`ask_sdk_core.dispatch_components.request_components`, 16

`ask_sdk_core.exceptions`, 28

`ask_sdk_core.response_helper`, 18

`ask_sdk_core.serialize`, 28

`ask_sdk_core.skill`, 20

`ask_sdk_core.skill_builder`, 21

`ask_sdk_core.utils.predicate`, 29

`ask_sdk_core.utils.request_util`, 31

`ask_sdk_core.utils.viewport`, 30

`ask_sdk_dynamodb.adapter`, 35

`ask_sdk_dynamodb.partition_keygen`, 36

`ask_sdk_model.application`, 311

`ask_sdk_model.canfulfill.can_fulfill_intent`, 65

`ask_sdk_model.canfulfill.can_fulfill_intent_request`, 66

`ask_sdk_model.canfulfill.can_fulfill_intent_values`, 67

`ask_sdk_model.canfulfill.can_fulfill_slot`, 67

`ask_sdk_model.canfulfill.can_fulfill_slot_values`, 68

`ask_sdk_model.canfulfill.can_understand_slot_values`, 68

`ask_sdk_model.cause`, 311

`ask_sdk_model.connection_completed`, 312

`ask_sdk_model.context`, 312

`ask_sdk_model.device`, 313

`ask_sdk_model.dialog.confirm_intent_directive`, 69

`ask_sdk_model.dialog.confirm_slot_directive`, 69

`ask_sdk_model.dialog.delegate_directive`, 69

`ask_sdk_model.dialog.dynamic_entities_directive`, 70

`ask_sdk_model.dialog.elicit_slot_directive`, 70

`ask_sdk_model.dialog_state`, 314

`ask_sdk_model.directive`, 314

`ask_sdk_model.er.dynamic.entity`, 71

`ask_sdk_model.er.dynamic.entity_list_item`, 71

`ask_sdk_model.er.dynamic.entity_value_and_synonyms`, 72

`ask_sdk_model.er.dynamic.update_behavior`, 72

`ask_sdk_model.events.skillevents.account_linked_body`, 73

`ask_sdk_model.events.skillevents.account_linked_request`, 73

`ask_sdk_model.events.skillevents.permission`, 74

`ask_sdk_model.events.skillevents.permission_accepted`, 74

`ask_sdk_model.events.skillevents.permission_body`, 75

`ask_sdk_model.events.skillevents.permission_changed`, 75

`ask_sdk_model.events.skillevents.proactive_subscription`, 76

`ask_sdk_model.events.skillevents.proactive_subscription_body`, 76

`ask_sdk_model.events.skillevents.proactive_subscription_request`, 77

`ask_sdk_model.events.skillevents.skill_disabled_request`, 77

`ask_sdk_model.events.skillevents.skill_enabled_request`, 78

`ask_sdk_model.intent`, 317

`ask_sdk_model.intent_confirmation_status`, 317

`ask_sdk_model.intent_request`, 318

ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.menu 79 96
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.move 79 96
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.open 80 97
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.pause 81 97
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.play 81 98
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.position 82 99
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.repeat 82 99
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.resume 83 100
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.rotate 83 101
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.run 84 101
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.start 84 101
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.stop 86 102
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.start 87 103
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.start 87 104
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.start 88 104
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.start 89 106
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.start 89 106
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.start 90 107
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.start 91 108
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.start 91 109
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.start 92 109
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.start 92 110
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.start 93 111
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.start 94 111
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.start 94 112
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.start 95 113
ask_sdk_model.interfaces.alexa.presentation.ask_sdk_model.interfaces.alexa.presentation.apl.start 95 113

ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.request.b	
114	133
ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.request.pa	
115	133
ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.request.pr	
116	134
ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.request.pr	
117	134
ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.request.pr	
117	135
ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.request.se	
118	135
ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.request.se	
118	136
ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.response.a	
119	138
ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.response.a	
120	139
ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.response.b	
121	140
ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.response.c	
122	141
ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.response.p	
123	142
ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.response.r	
123	142
ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.response.s	
124	143
ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.authori	
125	144
ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.v1.authori	
125	145
ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.v1.authori	
125	146
ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.v1.billing	
126	147
ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.v1.billing	
127	148
ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.v1.billing	
127	148
ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.v1.billing	
128	149
ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.v1.destina	
128	150
ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.v1.payment	
129	151
ask_sdk_model.interfaces.alexa.presentataask_sdk_model.interfaces.amazonpay.model.v1.price,	
129	151
ask_sdk_model.interfaces.amazonpay.modelask_sdk_model.interfaces.amazonpay.model.v1.provide	
130	151
ask_sdk_model.interfaces.amazonpay.modelask_sdk_model.interfaces.amazonpay.model.v1.provide	
131	152
ask_sdk_model.interfaces.amazonpay.modelask_sdk_model.interfaces.amazonpay.model.v1.release	
132	152

ask_sdk_model.interfaces.amazonpay.modelask_sdk_model.billmngfrgreementdiaptaybutspayback_fini
 153 168
 ask_sdk_model.interfaces.amazonpay.modelask_sdk_model.orderinterfacestaudioplayer.playback_near
 153 169
 ask_sdk_model.interfaces.amazonpay.modelask_sdk_model.interfaces.audioplayer.playback_start
 154 170
 ask_sdk_model.interfaces.amazonpay.requestask_sdk_model.amazonpayrequestaudioplayer.playback_stopp
 155 170
 ask_sdk_model.interfaces.amazonpay.requestask_sdk_model.amazonpayrequestaudioplayer.player_activit
 156 171
 ask_sdk_model.interfaces.amazonpay.responseask_sdk_model.amazonpayinterfaceaudioplayer.stop_directive
 157 171
 ask_sdk_model.interfaces.amazonpay.responseask_sdk_model.amazonpayresultaudioplayer.stream,
 157 172
 ask_sdk_model.interfaces.amazonpay.responseask_sdk_model.amazonpayresultautomotive.automotive_stat
 158 172
 ask_sdk_model.interfaces.amazonpay.v1.amazon_sdk_model.interfaces.connections.connections_re
 159 181
 ask_sdk_model.interfaces.amazonpay.v1.charask_sdk_model.interfaces.connections.connections_re
 159 182
 ask_sdk_model.interfaces.amazonpay.v1.charask_sdk_model.interfaces.connections.connections_st
 160 182
 ask_sdk_model.interfaces.amazonpay.v1.seask_sdk_model.interfaces.connections.entities.base
 161 173
 ask_sdk_model.interfaces.amazonpay.v1.seask_sdk_model.interfaces.connections.entities.posta
 162 174
 ask_sdk_model.interfaces.audioplayer.audask_sdk_model.interfaces.connections.entities.resta
 162 175
 ask_sdk_model.interfaces.audioplayer.audask_sdk_model.interfaces.connections.requests.base
 163 175
 ask_sdk_model.interfaces.audioplayer.audask_sdk_model.interfaces.connections.requests.print
 163 176
 ask_sdk_model.interfaces.audioplayer.audask_sdk_model.interfaces.connections.requests.print
 164 177
 ask_sdk_model.interfaces.audioplayer.captask_sdk_model.interfaces.connections.requests.print
 164 178
 ask_sdk_model.interfaces.audioplayer.captask_sdk_model.interfaces.connections.requests.sched
 164 178
 ask_sdk_model.interfaces.audioplayer.clearask_sdk_model.interfaces.connections.requests.sched
 165 179
 ask_sdk_model.interfaces.audioplayer.clearask_sdk_model.interfaces.connections.send_request_
 165 183
 ask_sdk_model.interfaces.audioplayer.curreask_sdk_model.interfaces.connections.send_response_
 165 184
 ask_sdk_model.interfaces.audioplayer.errorask_sdk_model.interfaces.connections.v1.start_conne
 166 180
 ask_sdk_model.interfaces.audioplayer.errorask_sdk_model.interfaces.custom_interface_controlle
 166 184
 ask_sdk_model.interfaces.audioplayer.playask_sdk_model.interfaces.custom_interface_controlle
 167 185
 ask_sdk_model.interfaces.audioplayer.playask_sdk_model.interfaces.custom_interface_controlle
 167 185
 ask_sdk_model.interfaces.audioplayer.playbackask_sdk_model.interfaces.custom_interface_controlle
 168 186

ask_sdk_model.interfaces.custom_interfacesask_sdk_model.interfaces.display.rich_text,
 187 201
 ask_sdk_model.interfaces.custom_interfacesask_sdk_model.interfaces.display.template,
 187 201
 ask_sdk_model.interfaces.custom_interfacesask_sdk_model.interfaces.text_content,
 188 202
 ask_sdk_model.interfaces.custom_interfacesask_sdk_model.interfaces.display.text_field,
 188 202
 ask_sdk_model.interfaces.custom_interfacesask_sdk_model.interfaces.controller.set_light,
 189 203
 ask_sdk_model.interfaces.custom_interfacesask_sdk_model.interfaces.handler,
 189 204
 ask_sdk_model.interfaces.custom_interfacesask_sdk_model.interfaces.input_handler,
 190 205
 ask_sdk_model.interfaces.display.back_buttonsdk_model.interfaces.game_engine.stop_input_handler,
 190 206
 ask_sdk_model.interfaces.display.body_templatesdk_model.interfaces.geolocation.access,
 191 206
 ask_sdk_model.interfaces.display.body_templatesdk_model.interfaces.geolocation.altitude,
 192 207
 ask_sdk_model.interfaces.display.body_templatesdk_model.interfaces.geolocation.coordinate,
 192 207
 ask_sdk_model.interfaces.display.body_templatesdk_model.interfaces.geolocation.geolocation_info,
 193 208
 ask_sdk_model.interfaces.display.body_templatesdk_model.interfaces.geolocation.geolocation_status,
 194 208
 ask_sdk_model.interfaces.display.displayask_sdk_model.interfaces.geolocation.heading,
 194 209
 ask_sdk_model.interfaces.display.displayask_sdk_model.interfaces.geolocation.location_service,
 195 209
 ask_sdk_model.interfaces.display.elementask_sdk_model.interfaces.geolocation.speed,
 195 210
 ask_sdk_model.interfaces.display.hint, ask_sdk_model.interfaces.geolocation.status,
 196 210
 ask_sdk_model.interfaces.display.hint_directask_sdk_model.interfaces.messaging.message_received,
 196 211
 ask_sdk_model.interfaces.display.image, ask_sdk_model.interfaces.monetization.v1.in_skill_purchase,
 197 212
 ask_sdk_model.interfaces.display.image_inask_sdk_model.interfaces.monetization.v1.purchase_item,
 197 212
 ask_sdk_model.interfaces.display.image_sizeask_sdk_model.interfaces.navigation.assistance.announcement,
 197 213
 ask_sdk_model.interfaces.display.list_itemask_sdk_model.interfaces.navigation.navigation_intent,
 198 213
 ask_sdk_model.interfaces.display.list_templatesdk_model.interfaces.playbackcontroller.next_command,
 198 214
 ask_sdk_model.interfaces.display.list_templatesdk_model.interfaces.playbackcontroller.pause_command,
 199 214
 ask_sdk_model.interfaces.display.plain_textask_sdk_model.interfaces.playbackcontroller.play_command,
 200 215
 ask_sdk_model.interfaces.display.plain_textask_sdk_model.interfaces.playbackcontroller.previous_command,
 200 215
 ask_sdk_model.interfaces.display.render_ask_sdk_model.interfaces.system.error,
 200 216

ask_sdk_model.interfaces.system.error_caask_sdk_model.interfaces.viewport.viewport_state,
 217 231
 ask_sdk_model.interfaces.system.error_typeask_sdk_model.interfaces.viewport.viewport_state_v
 217 232
 ask_sdk_model.interfaces.system.exceptionsask_sdk_model.interfaces.viewport.viewport_video,
 217 232
 ask_sdk_model.interfaces.system.system_sask_sdk_model.launch_request, 318
 218 ask_sdk_model.permission_status, 319
 ask_sdk_model.interfaces.tasks.complete_ask_sdk_model.permissions, 319
 219 ask_sdk_model.person, 320
 ask_sdk_model.interfaces.videoapp.launchadk_sdk_model.request, 320
 220 ask_sdk_model.request_envelope, 324
 ask_sdk_model.interfaces.videoapp.metadaask_sdk_model.response, 324
 220 ask_sdk_model.response_envelope, 325
 ask_sdk_model.interfaces.videoapp.video_app_sdk_model.scope, 326
 220 ask_sdk_model.services.api_client, 298
 ask_sdk_model.interfaces.videoapp.video_ask_sdk_model.services.api_client_message,
 221 298
 ask_sdk_model.interfaces.viewport.apl.cursask_sdk_model.services.api_client_request,
 221 298
 ask_sdk_model.interfaces.viewport.apl.viewask_sdk_model.services.api_client_response,
 222 299
 ask_sdk_model.interfaces.viewport.apl_viewask_sdk_model.services.api_configuration,
 226 299
 ask_sdk_model.interfaces.viewport.aplt.chask_sdk_model.services.api_response, 299
 222 ask_sdk_model.services.authentication_configuration
 ask_sdk_model.interfaces.viewport.aplt.inter_300
 223 ask_sdk_model.services.base_service_client,
 ask_sdk_model.interfaces.viewport.aplt.viewport300
 223 ask_sdk_model.services.device_address.address,
 ask_sdk_model.interfaces.viewport.aplt_viewport233
 227 ask_sdk_model.services.device_address.device_address
 ask_sdk_model.interfaces.viewport.experience, 234
 228 ask_sdk_model.services.device_address.error,
 ask_sdk_model.interfaces.viewport.keyboard, 234
 228 ask_sdk_model.services.device_address.short_address
 ask_sdk_model.interfaces.viewport.mode, 235
 229 ask_sdk_model.services.directive.directive,
 ask_sdk_model.interfaces.viewport.presentation_335
 229 ask_sdk_model.services.directive.directive_service,
 ask_sdk_model.interfaces.viewport.shape, 236
 229 ask_sdk_model.services.directive.error,
 ask_sdk_model.interfaces.viewport.size.continuoask_sdk_model.viewport_size,
 224 ask_sdk_model.services.directive.header,
 ask_sdk_model.interfaces.viewport.size.discrete237
 224 ask_sdk_model.viewport_size,
 ask_sdk_model.interfaces.viewport.size.viewport237
 225 ask_sdk_model.size,
 ask_sdk_model.interfaces.viewport.touch, 238
 230 ask_sdk_model.services.directive.speak_directive,
 ask_sdk_model.interfaces.viewport.typed_viewport238
 230 ask_sdk_model.services.endpoint_enumeration.endpoint
 ask_sdk_model.interfaces.viewport.video.codecs, 239
 226 ask_sdk_model.services.endpoint_enumeration.endpoint

239	ask_sdk_model.services.endpoint_enumeration	ask_sdk_model.services.list_management.list_created
240	ask_sdk_model.services.endpoint_enumeration	ask_sdk_model.services.list_management.list_deleted
240	ask_sdk_model.services.gadget_controller	ask_sdk_model.services.list_management.list_item_body
241	ask_sdk_model.services.gadget_controller	ask_sdk_model.services.list_management.list_item_status
241	ask_sdk_model.services.gadget_controller	ask_sdk_model.services.list_management.list_items
242	ask_sdk_model.services.gadget_controller	ask_sdk_model.services.list_management.list_items_type
242	ask_sdk_model.services.gadget_controller	ask_sdk_model.services.list_management.list_items_update
243	ask_sdk_model.services.game_engine.device	ask_sdk_model.services.list_management.list_manager
243	ask_sdk_model.services.game_engine.event	ask_sdk_model.services.list_management.list_state
244	ask_sdk_model.services.game_engine.input	ask_sdk_model.services.list_management.list_updated
245	ask_sdk_model.services.game_engine.input	ask_sdk_model.services.list_management.status
245	ask_sdk_model.services.game_engine.input	ask_sdk_model.services.list_management.update_list
246	ask_sdk_model.services.game_engine.pattern	ask_sdk_model.services.lwa.access_token
246	ask_sdk_model.services.game_engine.pattern	ask_sdk_model.services.lwa.access_token_request
247	ask_sdk_model.services.game_engine.pattern	ask_sdk_model.services.lwa.access_token_response
248	ask_sdk_model.services.game_engine.recognition	ask_sdk_model.services.lwa.error
248	ask_sdk_model.services.list_management.alexalists	ask_sdk_model.services.lwa.lwa_client
249	ask_sdk_model.services.list_management.alexalists	ask_sdk_model.services.monetization.entitled_state
250	ask_sdk_model.services.list_management.alexalists	ask_sdk_model.services.monetization.entitlement_request
251	ask_sdk_model.services.list_management.alexalists	ask_sdk_model.services.monetization.error
251	ask_sdk_model.services.list_management.alexalists	ask_sdk_model.services.monetization.in_skill_product
252	ask_sdk_model.services.list_management.create_list	ask_sdk_model.services.monetization.in_skill_product
252	ask_sdk_model.services.list_management.create_list	ask_sdk_model.services.monetization.in_skill_product
252	ask_sdk_model.services.list_management.error	ask_sdk_model.services.monetization.metadata
253	ask_sdk_model.services.list_management.forbidden	ask_sdk_model.services.monetization.monetization_session
253	ask_sdk_model.services.list_management.links	ask_sdk_model.services.monetization.product_type
253	ask_sdk_model.services.list_management.list_body	

ask_sdk_model.services.monetization.purchaseable_model, services.reminder_management.reminder
 272 286

ask_sdk_model.services.monetization.purchaseable_model, services.reminder_management.reminder
 272 287

ask_sdk_model.services.monetization.result_model, services.reminder_management.reminder
 272 288

ask_sdk_model.services.monetization.status_model, services.reminder_management.reminder
 273 288

ask_sdk_model.services.monetization.transaction_model, services.reminder_management.reminder
 273 289

ask_sdk_model.services.proactive_events.ask_sdk_model.events_reminder_management.reminder
 274 290

ask_sdk_model.services.proactive_events.ask_sdk_model.events_reminder_management.spoken_t
 275 290

ask_sdk_model.services.proactive_events.events_model, services.reminder_management.status,
 275 291

ask_sdk_model.services.proactive_events.primitive_model, services.reminder_management.trigger,
 276 291

ask_sdk_model.services.proactive_events.request_model, services.reminder_management.trigger,
 276 292

ask_sdk_model.services.proactive_events.request_model, serializer, 301
 277 ask_sdk_model.services.service_client_factory,
 ask_sdk_model.services.proactive_events.skill_store,
 277 ask_sdk_model.services.service_client_response,
 ask_sdk_model.services.reminder_management.alert_info,
 278 ask_sdk_model.services.service_exception,
 ask_sdk_model.services.reminder_management.alert_info_spoken_info,
 278 ask_sdk_model.services.skill_messaging.error,
 ask_sdk_model.services.reminder_management.error,
 279 ask_sdk_model.services.skill_messaging.send_skill_r
 ask_sdk_model.services.reminder_management.event,
 279 ask_sdk_model.services.skill_messaging.skill_messa
 ask_sdk_model.services.reminder_management.get_reminder_response,
 280 ask_sdk_model.services.ups.distance_units,
 ask_sdk_model.services.reminder_management.get_reminders_response,
 280 ask_sdk_model.services.ups.error, 294
 ask_sdk_model.services.reminder_management.push_notification.ups.error_code,
 281 295

ask_sdk_model.services.reminder_management.push_notification.steps.phone_number,
 281 295

ask_sdk_model.services.reminder_management.push_notification.steps.temperature_unit,
 282 296

ask_sdk_model.services.reminder_management.push_notification.steps.ups.ups_service_client,
 282 296

ask_sdk_model.services.reminder_management.push_notification.steps.region, 326
 283 ask_sdk_model.session_ended_error, 327

ask_sdk_model.services.reminder_management.push_notification.session_ended_error_type,
 283 327

ask_sdk_model.services.reminder_management.push_notification.created_event.request, 327
 284 ask_sdk_model.session_ended_request, 328

ask_sdk_model.services.reminder_management.push_notification.deleted_event.request,
 285 329

ask_sdk_model.services.reminder_management.push_notification.deleted_event.request,
 285 ask_sdk_model.slot_confirmation_status,

[ask_sdk_model.slu.entityresolution.resolution](#), 330
[ask_sdk_model.slu.entityresolution.resolution](#), 303
[ask_sdk_model.slu.entityresolution.resolution](#), 304
[ask_sdk_model.slu.entityresolution.status](#), 304
[ask_sdk_model.slu.entityresolution.status_code](#), 7
[ask_sdk_model.slu.entityresolution.value](#), 305
[ask_sdk_model.slu.entityresolution.value](#), 305
[ask_sdk_model.status](#), 330
[ask_sdk_model.supported_interfaces](#), 331
[ask_sdk_model.task](#), 332
[ask_sdk_model.ui.ask_for_permissions_confirmation](#), 306
[ask_sdk_model.ui.card](#), 306
[ask_sdk_model.ui.image](#), 307
[ask_sdk_model.ui.link_account_card](#), 307
[ask_sdk_model.ui.output_speech](#), 308
[ask_sdk_model.ui.plain_text_output_speech](#), 308
[ask_sdk_model.ui.play_behavior](#), 309
[ask_sdk_model.ui.reprompt](#), 309
[ask_sdk_model.ui.simple_card](#), 309
[ask_sdk_model.ui.ssmml_output_speech](#), 310
[ask_sdk_model.ui.standard_card](#), 310
[ask_sdk_model.user](#), 332
[ask_sdk_model_runtime.api_client](#), 58
[ask_sdk_model_runtime.api_client_message](#), 59
[ask_sdk_model_runtime.api_client_request](#), 59
[ask_sdk_model_runtime.api_client_response](#), 59
[ask_sdk_model_runtime.api_configuration](#), 60
[ask_sdk_model_runtime.api_response](#), 60
[ask_sdk_model_runtime.authentication_configuration](#), 60
[ask_sdk_model_runtime.base_service_client](#), 61
[ask_sdk_model_runtime.exceptions](#), 61
[ask_sdk_model_runtime.lwa.access_token](#), 55
[ask_sdk_model_runtime.lwa.access_token_request](#), 56
[ask_sdk_model_runtime.lwa.access_token_response](#), 56
[ask_sdk_model_runtime.lwa.error](#), 57
[ask_sdk_model_runtime.lwa.lwa_client](#), 57
[ask_sdk_model_runtime.serializer](#), 62
[ask_sdk_model_runtime.service_client_response](#), 63
[ask_sdk_runtime.dispatch](#), 6
[ask_sdk_runtime.dispatch_components.exception_component](#), 8
[ask_sdk_runtime.dispatch_components.request_component](#), 8
[ask_sdk_runtime.exceptions](#), 13
[ask_sdk_runtime.skill](#), 9
[ask_sdk_runtime.skill_builder](#), 11
[ask_sdk_s3.adapter](#), 51
[ask_sdk_s3.object_keygen](#), 52
[ask_sdk_webservice_support.verifier](#), 44
[ask_sdk_webservice_support.verifier_constants](#), 43
[ask_sdk_webservice_support.webservice_handler](#), 45
[ask_smapi_model.services.skill_management.skill_management](#), 334
[ask_smapi_model.v1.bad_request_error](#), 556
[ask_smapi_model.v1.catalog.create_content_upload_url](#), 387
[ask_smapi_model.v1.catalog.create_content_upload_url](#), 387
[ask_smapi_model.v1.catalog.presigned_upload_part_info](#), 388
[ask_smapi_model.v1.catalog.upload.catalog_upload_batch](#), 382
[ask_smapi_model.v1.catalog.upload.content_upload_file](#), 382
[ask_smapi_model.v1.catalog.upload.file_upload_status](#), 382
[ask_smapi_model.v1.catalog.upload.get_content_upload_url](#), 383
[ask_smapi_model.v1.catalog.upload.ingestion_status](#), 384
[ask_smapi_model.v1.catalog.upload.ingestion_step_name](#), 384
[ask_smapi_model.v1.catalog.upload.location](#), 384
[ask_smapi_model.v1.catalog.upload.pre_signed_url](#), 385
[ask_smapi_model.v1.catalog.upload.pre_signed_url_info](#), 385
[ask_smapi_model.v1.catalog.upload.upload_ingestion_status](#), 386
[ask_smapi_model.v1.catalog.upload.upload_status](#), 386
[ask_smapi_model.v1.error](#), 556
[ask_smapi_model.v1.isp.associated_skill_response](#), 388
[ask_smapi_model.v1.isp.create_in_skill_product_request](#), 388

ask_smapi_model.v1.skill.build_step, 535
ask_smapi_model.v1.skill.build_step_nameask_smapi_model.v1.skill. evaluations.slot_resolution, 536
ask_smapi_model.v1.skill.certification.cask_smapi_model.response, 423
ask_smapi_model.v1.skill.certification.cask_smapi_model.resultskill.export_response_skill, 423
ask_smapi_model.v1.skill.certification.cask_smapi_model.attributeskill.history.confidence, 424
ask_smapi_model.v1.skill.certification.cask_smapi_model.summaryskill.history.confidence_bin, 424
ask_smapi_model.v1.skill.certification.dask_smapi_model.v1.skill.history.dialog_act, 425
ask_smapi_model.v1.skill.certification.esk_smapi_model.v1.skill.history.dialog_act_name, 425
ask_smapi_model.v1.skill.certification.lask_smapi_model.v1.skill.history.intent, 426
ask_smapi_model.v1.skill.certification.pask_smapi_model.v1.skill.history.intent_confidence, 426
ask_smapi_model.v1.skill.certification.rask_smapi_model.v1.skill.history.intent_request, 427
ask_smapi_model.v1.skill.certification.rask_smapi_model.v1.skill.history.intent_request_location, 428
ask_smapi_model.v1.skill.create_skill_requestask_smapi_model.v1.skill.history.intent_requests, 536
ask_smapi_model.v1.skill.create_skill_responseask_smapi_model.v1.skill.history.interaction_type, 537
ask_smapi_model.v1.skill.create_skill_with_bank_profileask_smapi_model.v1.skill.history.locale_in_query, 537
ask_smapi_model.v1.skill.evaluations.confask_smapi_model.v1.skill.history.publication_status, 428
ask_smapi_model.v1.skill.evaluations.diaask_smapi_model.v1.skill.history.slot, 429
ask_smapi_model.v1.skill.evaluations.diaask_smapi_model.v1.skill.history.sort_field_for_intent, 429
ask_smapi_model.v1.skill.evaluations.intenask_smapi_model.v1.skill.image_attributes, 430
ask_smapi_model.v1.skill.evaluations.multask_smapi_model.v1.skill.image_dimension, 430
ask_smapi_model.v1.skill.evaluations.profilesask_smapi_model.v1.skill.image_size, 539
ask_smapi_model.v1.skill.evaluations.profile_n1ask_smapi_model.v1.skill.image_size_unit, 540
ask_smapi_model.v1.skill.evaluations.profile_n1ask_smapi_model.v1.skill.import_response, 540
ask_smapi_model.v1.skill.evaluations.profile_n1ask_smapi_model.v1.skill.import_response_skill, 540
ask_smapi_model.v1.skill.evaluations.resolutionask_smapi_model.v1.skill.selected_intent, 540
ask_smapi_model.v1.skill.evaluations.resolutionask_smapi_model.v1.skill.per_authority_items, 540
ask_smapi_model.v1.skill.evaluations.resask_smapi_model.v1.skill.instance, 541
ask_smapi_model.v1.skill.evaluations.resask_smapi_model.v1.skill.interaction_model.catalog, 541
ask_smapi_model.v1.skill.evaluations.resask_smapi_model.v1.skill.interaction_model.catalog_code, 541
ask_smapi_model.v1.skill.evaluations.resask_smapi_model.v1.skill.value_items, 541
ask_smapi_model.v1.skill.evaluations.sloask_smapi_model.v1.skill.interaction_model.catalog, 541

514 ask_smapi_model.v1.skill.simulations.alexa_executing_response, 514
 ask_smapi_model.v1.skill.manifest.smart_home_api, 525
 515 ask_smapi_model.v1.skill.simulations.alexa_response_payload, 525
 ask_smapi_model.v1.skill.manifest.smart_home_protocol, 525
 515 ask_smapi_model.v1.skill.simulations.alexa_response_payload_type, 525
 ask_smapi_model.v1.skill.manifest.ssl_certificate_type, 526
 516 ask_smapi_model.v1.skill.simulations.device, 526
 ask_smapi_model.v1.skill.manifest.up_channel_items, 526
 516 ask_smapi_model.v1.skill.simulations.input, 526
 ask_smapi_model.v1.skill.manifest.version, 526
 516 ask_smapi_model.v1.skill.simulations.invocation_request, 526
 ask_smapi_model.v1.skill.manifest.video_apis, 527
 517 ask_smapi_model.v1.skill.simulations.invocation_request_payload, 527
 ask_smapi_model.v1.skill.manifest.video_apis_locale, 527
 517 ask_smapi_model.v1.skill.simulations.metrics, 527
 ask_smapi_model.v1.skill.manifest.video_app_interface, 528
 518 ask_smapi_model.v1.skill.simulations.session, 528
 ask_smapi_model.v1.skill.manifest.video_catalog_info, 528
 518 ask_smapi_model.v1.skill.simulations.session_mode, 528
 ask_smapi_model.v1.skill.manifest.video_country_info, 528
 519 ask_smapi_model.v1.skill.simulations.simulation_request, 528
 ask_smapi_model.v1.skill.manifest.video_region, 529
 519 ask_smapi_model.v1.skill.simulations.simulations_api, 529
 ask_smapi_model.v1.skill.manifest.viewport_mode, 529
 519 ask_smapi_model.v1.skill.simulations.simulations_api_payload, 529
 ask_smapi_model.v1.skill.manifest.viewport_shape, 530
 520 ask_smapi_model.v1.skill.simulations.simulations_api_payload_type, 530
 ask_smapi_model.v1.skill.manifest.viewport_specification, 530
 520 ask_smapi_model.v1.skill.skill_interaction_model_status_response, 530
 ask_smapi_model.v1.skill.metrics.get_metric_data_response, 545
 521 ask_smapi_model.v1.skill.skill_status, 545
 ask_smapi_model.v1.skill.metrics.metric, 545
 522 ask_smapi_model.v1.skill.skill_summary, 545
 ask_smapi_model.v1.skill.metrics.period, 546
 522 ask_smapi_model.v1.skill.skill_summary_api, 546
 ask_smapi_model.v1.skill.metrics.skill_type, 547
 523 ask_smapi_model.v1.skill.ssl_certificate_payload, 547
 ask_smapi_model.v1.skill.metrics.stage_for_metric, 547
 523 ask_smapi_model.v1.skill.standardized_error, 547
 ask_smapi_model.v1.skill.private.accept_status, 548
 523 ask_smapi_model.v1.skill.status, 548
 ask_smapi_model.v1.skill.private.list_private_endpoint_invitation_accounts_response, 549
 524 ask_smapi_model.v1.skill.update_skill_with_package_response, 549
 ask_smapi_model.v1.skill.private.private_endpoint_invitation_account, 549
 524 ask_smapi_model.v1.skill.upload_response, 549
 ask_smapi_model.v1.skill.publication_method, 549
 542 ask_smapi_model.v1.skill.validation_data_types, 549
 ask_smapi_model.v1.skill.reason, 543 ask_smapi_model.v1.skill.validation_details, 550
 ask_smapi_model.v1.skill.regional_ssl_certificate, 550
 543 ask_smapi_model.v1.skill.validation_endpoint, 551
 ask_smapi_model.v1.skill.resource_import_status, 551
 544 ask_smapi_model.v1.skill.validation_endpoint, 551
 ask_smapi_model.v1.skill.response_status, 553
 544 ask_smapi_model.v1.skill.validation_feature, 553

554
ask_smapi_model.v1.skill.validations.response_validation,
531
ask_smapi_model.v1.skill.validations.response_validation_importance,
532
ask_smapi_model.v1.skill.validations.response_validation_status,
532
ask_smapi_model.v1.skill.validations.validations_api_request,
532
ask_smapi_model.v1.skill.validations.validations_api_response,
533
ask_smapi_model.v1.skill.validations.validations_api_response_result,
533
ask_smapi_model.v1.skill.validations.validations_api_response_status,
534
ask_smapi_model.v1.skill.withdraw_request,
554
ask_smapi_model.v1.stage_type, 557
ask_smapi_model.v1.stage_v2_type, 557
ask_smapi_model.v1.vendor_management.vendor,
555
ask_smapi_model.v1.vendor_management.vendors,
555
ask_smapi_sdk.smapi_builder, 53
ask_smapi_sdk.utils, 54

A

absolute (*ask_sdk_model.interfaces.alexa.presentation.apl.position.Position* attribute), 99

absolute (*ask_sdk_model.interfaces.alexa.presentation.apl.position.Position* attribute), 117

AbstractExceptionHandler (class in *ask_sdk_core.dispatch_components.exception_components*), 17

AbstractExceptionHandler (class in *ask_sdk_runtime.dispatch_components.exception_components*), 5

AbstractExceptionHandler (class in *ask_sdk_runtime.skill_builder*), 11

AbstractExceptionMapper (class in *ask_sdk_runtime.dispatch_components.exception_components*), 6

AbstractHandlerAdapter (class in *ask_sdk_runtime.dispatch_components.request_components*), 5

AbstractPersistenceAdapter (class in *ask_sdk_core.attributes_manager*), 27

AbstractRequestDispatcher (class in *ask_sdk_runtime.dispatch*), 3

AbstractRequestHandler (class in *ask_sdk_core.dispatch_components.request_components*), 16

AbstractRequestHandler (class in *ask_sdk_runtime.dispatch_components.request_components*), 3

AbstractRequestHandlerChain (class in *ask_sdk_runtime.dispatch_components.request_components*), 4

AbstractRequestInterceptor (class in *ask_sdk_core.dispatch_components.request_components*), 16

AbstractRequestInterceptor (class in *ask_sdk_runtime.dispatch_components.request_components*), 4

AbstractRequestMapper (class in *ask_sdk_runtime.dispatch_components.request_components*), 4

AbstractResponseInterceptor (class in *ask_sdk_core.dispatch_components.request_components*), 17

AbstractResponseInterceptor (class in *ask_sdk_runtime.dispatch_components.request_components*), 4

AbstractSkill (class in *ask_sdk_runtime.skill*), 11

AbstractSkillBuilder (class in *ask_sdk_runtime.skill_builder*), 11

AbstractVerifier (class in *ask_sdk_webservice_support.verifier*), 44

ACCEPTED (*ask_sdk_model.interfaces.monetization.v1.purchase_result.PurchaseResult* attribute), 212

ACCEPTED (*ask_smapi_model.v1.skill.beta_test.testers.invitation_status.InvitationStatus* attribute), 419

ACCEPTED (*ask_smapi_model.v1.skill.private.accept_status.AcceptStatus* attribute), 524

AcceptStatus (class in *ask_smapi_model.v1.skill.private.accept_status*), 523

Access (class in *ask_sdk_model.interfaces.geolocation.access*), 206

AccessToken (class in *ask_sdk_model.services.lwa.access_token*), 263

AccessToken (class in *ask_sdk_model_runtime.lwa.access_token*), 55

AccessTokenRequest (class in *ask_sdk_model.services.lwa.access_token_request*), 263

AccessTokenRequest (class in *ask_sdk_model_runtime.lwa.access_token_request*), 56

AccessTokenResponse (class in *ask_sdk_model.services.lwa.access_token_response*), 264

AccessTokenResponse (class in *ask_sdk_model_runtime.lwa.access_token_response*), 56

AccessTokenSchemeType (class in

`ask_smapi_model.v1.skill.account_linking.access_token_schema` (attribute), 410

`AccountLinkedBody` (class in `ask_sdk.standard.StandardSkillBuilder`), 40

`AccountLinkedRequest` (class in `ask_sdk_core.skill_builder.CustomSkillBuilder`), 24

`AccountLinkingRequest` (class in `ask_sdk_core.skill_builder.SkillBuilder`), 22

`AccountLinkingResponse` (class in `ask_sdk_runtime.skill.RuntimeConfigurationBuilder`), 10

`AccountLinkingType` (class in `ask_sdk_runtime.skill_builder.AbstractSkillBuilder`), 12

`Action` (class in `ask_smapi_model.v1.skill.action`), 534

`active` (`ask_sdk_model.services.list_management.list_item_state.ListItemState` attribute), 256

`active` (`ask_sdk_model.services.list_management.list_state.ListState` attribute), 260

`AD` (`ask_smapi_model.v1.isp.distribution_countries.DistributionCountries` attribute), 390

`AD` (`ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries` attribute), 474

`add_custom_user_agent` (`ask_sdk.standard.StandardSkillBuilder` method), 39

`add_custom_user_agent` (`ask_sdk_core.skill_builder.CustomSkillBuilder` method), 23

`add_custom_user_agent` (`ask_sdk_core.skill_builder.SkillBuilder` method), 22

`add_directive` (`ask_sdk_core.response_helper.ResponseFactory` method), 18

`add_exception_handler` (`ask_sdk.standard.StandardSkillBuilder` method), 39

`add_exception_handler` (`ask_sdk_core.skill_builder.CustomSkillBuilder` method), 24

`add_exception_handler` (`ask_sdk_core.skill_builder.SkillBuilder` method), 22

`add_exception_handler` (`ask_sdk_runtime.dispatch_components.exception_components.GeneralExceptionMapper` method), 9

`add_exception_handler` (`ask_sdk_runtime.skill.RuntimeConfigurationBuilder` method), 10

`add_exception_handler` (`ask_sdk_runtime.skill_builder.AbstractSkillBuilder` method), 12

`add_exception_handler` (`ask_sdk.standard.StandardSkillBuilder` method), 40

`add_exception_handler` (`ask_sdk_core.skill_builder.CustomSkillBuilder` method), 24

`add_exception_handler` (`ask_sdk_core.skill_builder.SkillBuilder` method), 22

`add_exception_handler` (`ask_sdk_runtime.skill_builder.SkillBuilder` method), 10

`add_exception_handler` (`ask_sdk_runtime.skill_builder.SkillBuilder` method), 12

`add_exception_handler` (`ask_sdk.standard.StandardSkillBuilder` method), 40

`add_exception_handler` (`ask_sdk_core.skill_builder.CustomSkillBuilder` method), 24

`add_global_request_interceptor` (`ask_sdk.standard.StandardSkillBuilder` method), 40

`add_global_request_interceptor` (`ask_sdk_core.skill_builder.CustomSkillBuilder` method), 24

`add_global_request_interceptor` (`ask_sdk_core.skill_builder.SkillBuilder` method), 22

`add_global_request_interceptor` (`ask_sdk_runtime.skill.RuntimeConfigurationBuilder` method), 10

`add_global_request_interceptor` (`ask_sdk_runtime.skill_builder.AbstractSkillBuilder` method), 12

`add_global_response_interceptor` (`ask_sdk_runtime.skill.RuntimeConfigurationBuilder` method), 10

`add_global_response_interceptor` (`ask_sdk_runtime.skill_builder.AbstractSkillBuilder` method), 12

`add_loader` (`ask_sdk.standard.StandardSkillBuilder` method), 40

`add_loader` (`ask_sdk_core.skill_builder.CustomSkillBuilder` method), 24

`add_loader` (`ask_sdk_core.skill_builder.SkillBuilder` method), 22

`add_loader` (`ask_sdk_runtime.skill.RuntimeConfigurationBuilder` method), 10

`add_loader` (`ask_sdk_runtime.skill_builder.AbstractSkillBuilder` method), 12

`add_loaders` (`ask_sdk.standard.StandardSkillBuilder` method), 40

`add_loaders` (`ask_sdk_core.skill_builder.CustomSkillBuilder` method), 24

`add_loaders` (`ask_sdk_core.skill_builder.SkillBuilder` method), 22

`add_loaders` (`ask_sdk_runtime.skill_builder.SkillBuilder` method), 10

`add_loaders` (`ask_sdk_runtime.skill_builder.AbstractSkillBuilder` method), 12

`add_renderer` (`ask_sdk.standard.StandardSkillBuilder` method), 40

`add_renderer` (`ask_sdk_core.skill_builder.CustomSkillBuilder` method), 24

method), 24

add_renderer() (ask_sdk_core.skill_builder.SkillBuilder method), 22

add_renderer() (ask_sdk_runtime.skill.RuntimeConfigurationBuilder method), 11

add_renderer() (ask_sdk_runtime.skill_builder.AbstractSkillBuilder method), 12

add_request_handler() (ask_sdk.standard.StandardSkillBuilder method), 40

add_request_handler() (ask_sdk_core.skill_builder.CustomSkillBuilder method), 24

add_request_handler() (ask_sdk_core.skill_builder.SkillBuilder method), 22

add_request_handler() (ask_sdk_runtime.skill.RuntimeConfigurationBuilder method), 10

add_request_handler() (ask_sdk_runtime.skill_builder.AbstractSkillBuilder method), 11

add_request_handler_chain() (ask_sdk_runtime.dispatch_components.request_components method), 8

add_request_handlers() (ask_sdk_runtime.skill.RuntimeConfigurationBuilder method), 10

add_request_interceptor() (ask_sdk_runtime.dispatch_components.request_components.GenericRequestHandlerChain method), 7

add_response_interceptor() (ask_sdk_runtime.dispatch_components.request_components.GenericRequestHandlerChain method), 7

add_testers_to_beta_test_v1() (ask_smapi_model.services.skill_management.skill_management_v1_client.SkillManagementServiceClient method), 334

Address (class in ask_sdk_model.services.device_address.address), attribute), 484

AE (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 390

AE (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 474

AF (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 390

AF (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 474

AG (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 390

AG (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 474

AgreementType (class in ask_smapi_model.v1.skill.agreement_type), attribute), 535

AI (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 390

AI (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 474

AL (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 390

AL (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 474

AlertInfo (class in ask_sdk_model.services.reminder_management.alert_info), 278

alexa_alerts_reminders_skill_readwrite (ask_smapi_model.v1.skill.manifest.permission_name.Permission attribute), 505

alexa_alerts_timers_skill_readwrite (ask_smapi_model.v1.skill.manifest.permission_name.Permission attribute), 505

alexa_async_event_write (ask_smapi_model.v1.skill.manifest.permission_name.Permission attribute), 505

alexa_authenticate_2_mandatory (ask_smapi_model.v1.skill.manifest.permission_name.Permission attribute), 505

alexa_async_event_write (ask_smapi_model.v1.skill.manifest.permission_name.Permission attribute), 505

alexa_authenticate_2_mandatory (ask_smapi_model.v1.skill.manifest.permission_name.Permission attribute), 505

alexa_camera_photo_capture_controller_cancel_capture_failed (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 484

alexa_camera_photo_capture_controller_cancel_capture_failed (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 484

alexa_camera_video_capture_controller_cancel_capture_failed (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 484

alexa_camera_video_capture_controller_capture_failed (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 484

alexa_camera_video_capture_controller_capture_finished (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 484

alexa_camera_video_capture_controller_capture_started (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 484

alexa_customer_id_read

(*ask_smapi_model.v1.skill.manifest.permission_name.PermissionName*), 506
attribute), 505 alexa_personality_explicit_write
alex_a_device_id_read (*ask_smapi_model.v1.skill.manifest.permission_name.PermissionName*), 506
attribute), 505 Alexa_Presentation_APL_UserEvent
alex_a_device_type_read (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType*), 484
attribute), 505 Alexa_Presentation_HTML_Event
alex_a_devices_all_address_country_and_postal_code_read (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType*), 484
attribute), 505 Alexa_Presentation_HTML_LifecycleStateChanged
alex_a_devices_all_address_full_read (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType*), 484
attribute), 505 Alexa_Presentation_PresentationDismissed
alex_a_devices_all_geolocation_read (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType*), 484
attribute), 505 alexa_profile_email_read
alex_a_devices_all_notifications_urgent_write (*ask_smapi_model.v1.skill.manifest.permission_name.PermissionName*), 506
attribute), 505 alexa_profile_given_name_read
alex_a_devices_all_notifications_write (*ask_smapi_model.v1.skill.manifest.permission_name.PermissionName*), 506
attribute), 505 alexa_profile_mobile_number_read
Alexa_FileManager_UploadController_CancelUpload (*ask_smapi_model.v1.skill.manifest.permission_name.PermissionName*), 484
attribute), 484 alexa_profile_name_read
Alexa_FileManager_UploadController_CancelUpload (*ask_smapi_model.v1.skill.manifest.permission_name.PermissionName*), 484
attribute), 484 alexa_raw_person_id_read
Alexa_FileManager_UploadController_UploadFailed (*ask_smapi_model.v1.skill.manifest.permission_name.PermissionName*), 484
attribute), 484 alexa_skill_cds_monetization
Alexa_FileManager_UploadController_UploadFinished (*ask_smapi_model.v1.skill.manifest.permission_name.PermissionName*), 484
attribute), 484 alexa_skill_proactive_enablement
Alexa_FileManager_UploadController_UploadStarted (*ask_smapi_model.v1.skill.manifest.permission_name.PermissionName*), 484
attribute), 484 alexa_skill_products_entitlements
alex_a_health_profile_write (*ask_smapi_model.v1.skill.manifest.permission_name.PermissionName*), 505
attribute), 505 alexa_user_experience_guidance_read
alex_a_household_lists_read (*ask_smapi_model.v1.skill.manifest.permission_name.PermissionName*), 505
attribute), 505 alexa_utterance_id_read
alex_a_household_lists_write (*ask_smapi_model.v1.skill.manifest.permission_name.PermissionName*), 505
attribute), 505 Alexa_Video_Xray_ShowDetailsFailed
alex_a_music_cast (*ask_smapi_model.v1.skill.manifest.permission_name.PermissionName*), 506
attribute), 506 alexa_video_xray_show_details_failed (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType*), 484
attribute), 484
alex_a_person_id_read Alexa_Video_Xray_ShowDetailsSuccessful
(*ask_smapi_model.v1.skill.manifest.permission_name.PermissionName*), 506
attribute), 506 alexa_video_xray_show_details_successful (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType*), 484
attribute), 484
alex_a_personality_explicit_read AlexaExecutionInfo (class in *ask_smapi_model.v1.skill.simulations.alexa_execution_info*),
(*ask_smapi_model.v1.skill.manifest.permission_name.PermissionName*), 506

525
 alexaForBusiness (ask_smapi_model.v1.skill.skill_summaries.skill_summaries.manifest.distribution_countries.DistributionCountries attribute), 547
 alexaForBusinessApis (class in AmazonPayErrorResponse (class in ask_smapi_model.v1.skill.manifest.alex_for_business_apis_ask_sdk_model.interfaces.amazonpay.response.amazon_pay_error_response), 468
 alexaForBusinessInterface (class in AmazonPayErrorResponse (class in ask_smapi_model.v1.skill.manifest.alex_for_business_interfaces_ask_sdk_model.interfaces.amazonpay.v1.amazon_pay_error_response), 469
 AlexaList (class in AN(ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 249
 AlexaListItem (class in AN(ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 250
 AlexaListMetadata (class in AN(ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 251
 AlexaListsMetadata (class in AN(ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 251
 AlexaPresentationAplInterface (class in AN(ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 79
 AlexaPresentationAplInterface (class in AN(ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 470
 AlexaPresentationAplTInterface (class in AN(ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 113
 AlexaPresentationHtmlInterface (class in AN(ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 125
 AlexaResponse (class in AN(ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 525
 AlexaResponseContent (class in AN(ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 526
 Align (class in ask_sdk_model.interfaces.alex.presentation.apl.align), 79
 ALL_LISTS_CHANGED (ask_smapi_model.v1.skill.manifest.event_name_type.EventType), 484
 ALLOWED (ask_smapi_model.v1.skill.alex_hosted.hosted_skill_permissions(ask_sdk_model.interfaces.alex.presentation.apl.align), 415
 ALREADY_PURCHASED (class in ask_sdk_model.interfaces.monetization.v1.purchase_result_purchase_result.services.api_client), 212
 Altitude (class in ask_sdk_model.interfaces.geolocation.altitude), ask_sdk_model_runtime.api_client), 207
 ALWAYS (ask_smapi_model.v1.skill.interaction_model.delegation_strategy_type.DelegationStrategyType), 453
 AM(ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 248

ApiClientMessage (class in attribute), 474
ask_sdk_model_runtime.api_client_message), 59

ApiClientRequest (class in as_view() (django_ask_sdk.skill_adapter.SkillAdapter class method), 49
ask_sdk_model.services.api_client_request), 298
ask() (ask_sdk_core.response_helper.ResponseFactory method), 18
ask_sdk.standard (module), 39

ApiClientRequest (class in ask_sdk_core.api_client (module), 27
ask_sdk_model_runtime.api_client_request), 59
ask_sdk_core.dispatch_components.exception_component (module), 17

ApiClientResponse (class in ask_sdk_core.dispatch_components.request_component (module), 16
ask_sdk_model.services.api_client_response), 299
ask_sdk_core.exceptions (module), 28

ApiClientResponse (class in ask_sdk_core.response_helper (module), 18
ask_sdk_model_runtime.api_client_response), 59
ask_sdk_core.serialize (module), 28
ask_sdk_core.skill (module), 20

ApiConfiguration (class in ask_sdk_core.skill_builder (module), 21
ask_sdk_model.services.api_configuration), 299
ask_sdk_core.utils.predicate (module), 29
ask_sdk_core.utils.request_util (module), 31

ApiConfiguration (class in ask_sdk_core.utils.viewport (module), 30
ask_sdk_model_runtime.api_configuration), 60
ask_sdk_core.utils.viewport (module), 30

ApiResponse (class in ask_sdk_dynamodb.adapter (module), 35
ask_sdk_model.services.api_response), 299
ask_sdk_dynamodb.partition_keygen (module), 36

ApiResponse (class in ask_sdk_model.application (module), 311
ask_sdk_model_runtime.api_response), 60
ask_sdk_model.canfulfill.can_fulfill_intent (module), 65

APLTV viewportState (class in ask_sdk_model.canfulfill.can_fulfill_intent_request (module), 66
ask_sdk_model.interfaces.viewport.aplt_viewport_state), 227
ask_sdk_model.canfulfill.can_fulfill_intent_values (module), 67

APLTV viewportState (class in sdk_model.canfulfill.can_fulfill_intent_values (module), 67
ask_sdk_model.interfaces.viewport.apl_viewport_state), 226
ask_sdk_model.canfulfill.can_fulfill_slot (module), 67

Application (class in ask_sdk_model.application), 311
ask_sdk_model.canfulfill.can_fulfill_slot_values (module), 68

APPROVED_BY_PARENT (ask_sdk_model.services.monetization.status.Status attribute), 273
ask_sdk_model.canfulfill.can_understand_slot_values (module), 68

AQ (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 391
ask_sdk_model.cause (module), 311

AQ (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 474
ask_sdk_model.connection_completed (module), 312

AR (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 391
ask_sdk_model.context (module), 312

AR (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 474
ask_sdk_model.device (module), 313

archived (ask_sdk_model.services.list_management.list_state.ListState attribute), 260
ask_sdk_model.dialog.confirm_intent_directive (module), 69

args (ask_sdk_webservice_support.verifier.VerificationException attribute), 44
ask_sdk_model.dialog.confirm_slot_directive (module), 69

array (ask_smapi_model.v1.skill.validation_data_types.ValidationDataTypes attribute), 550
ask_sdk_model.dialog.delegate_directive (module), 69

ARTS_AND_CULTURE (ask_smapi_model.v1.skill.manifest.flash_briefing_genre.FlashBriefingGenre attribute), 491
ask_sdk_model.dialog.dynamic_entities_directive (module), 70

AS (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 391
ask_sdk_model.dialog_state (module), 314

AS (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 474
ask_sdk_model.directive (module), 314

AS (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 474
ask_sdk_model.dynamic.entity (module),

71
 ask_sdk_model.er.dynamic.entity_list_item (module), 71
 ask_sdk_model.er.dynamic.entity_value_and_synonyms (module), 72
 ask_sdk_model.er.dynamic.update_behavior (module), 72
 ask_sdk_model.events.skillevents.account_ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 73
 ask_sdk_model.events.skillevents.account_ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 73
 ask_sdk_model.events.skillevents.permissions (module), 74
 ask_sdk_model.events.skillevents.permissions (module), 74
 ask_sdk_model.events.skillevents.permissions (module), 75
 ask_sdk_model.events.skillevents.permissions (module), 75
 ask_sdk_model.events.skillevents.proactive_requests (module), 76
 ask_sdk_model.events.skillevents.proactive_requests (module), 76
 ask_sdk_model.events.skillevents.proactive_requests (module), 77
 ask_sdk_model.events.skillevents.skill_disable (module), 77
 ask_sdk_model.events.skillevents.skill_enable (module), 78
 ask_sdk_model.intent (module), 317
 ask_sdk_model.intent_confirmation_status (module), 317
 ask_sdk_model.intent_request (module), 318
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 79
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 79
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 80
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 81
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 81
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 82
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 82
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 83
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 83
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 84
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 84
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 86
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 87
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 87
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 88
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 89
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 89
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 90
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 91
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 91
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 92
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 92
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 93
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 94
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 94
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 95
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 95
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 96
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 96
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 97
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 97
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 98
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 99
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 99
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 100
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 101
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 101
 ask_sdk_model.interfaces.alexapresentation.apl.commands (module), 101

ask_sdk_model.interfaces.connections.entask_sdk_model.interfaces.display.body_template6
 (module), 173 (module), 193

ask_sdk_model.interfaces.connections.entask_sdk_model.interfaces.display.body_template7
 (module), 174 (module), 194

ask_sdk_model.interfaces.connections.entask_sdk_model.interfaces.display.display_interface
 (module), 175 (module), 194

ask_sdk_model.interfaces.connections.reqask_sdk_model.interfaces.display.display_state
 (module), 175 (module), 195

ask_sdk_model.interfaces.connections.reqask_sdk_model.interfaces.display.element_selected_
 (module), 176 (module), 195

ask_sdk_model.interfaces.connections.reqask_sdk_model.interfaces.display.hint
 (module), 177 (module), 196

ask_sdk_model.interfaces.connections.reqask_sdk_model.interfaces.display.hint_directive
 (module), 178 (module), 196

ask_sdk_model.interfaces.connections.reqask_sdk_model.interfaces.display.image_reservation_requ
 (module), 178 (module), 197

ask_sdk_model.interfaces.connections.reqask_sdk_model.interfaces.display.image_instance
 (module), 179 (module), 197

ask_sdk_model.interfaces.connections.sendsk_sdk_model.interfaces.display.image_size
 (module), 183 (module), 197

ask_sdk_model.interfaces.connections.sendsk_sdk_model.interfaces.display.list_item
 (module), 184 (module), 198

ask_sdk_model.interfaces.connections.v1.ask_sdk_model.interfaces.display.list_template1
 (module), 180 (module), 198

ask_sdk_model.interfaces.custom_interfacesask_sdk_model.interfaces.display.list_template2
 (module), 184 (module), 199

ask_sdk_model.interfaces.custom_interfacesask_sdk_model.interfaces.display.plain_text
 (module), 185 (module), 200

ask_sdk_model.interfaces.custom_interfacesask_sdk_model.interfaces.display.plain_text_hint
 (module), 185 (module), 200

ask_sdk_model.interfaces.custom_interfacesask_sdk_model.interfaces.display.requester_template_d
 (module), 186 (module), 200

ask_sdk_model.interfaces.custom_interfacesask_sdk_model.interfaces.display.rich_text
 (module), 187 (module), 201

ask_sdk_model.interfaces.custom_interfacesask_sdk_model.interfaces.display.template
 (module), 187 (module), 201

ask_sdk_model.interfaces.custom_interfacesask_sdk_model.interfaces.display.text_content
 (module), 188 (module), 202

ask_sdk_model.interfaces.custom_interfacesask_sdk_model.interfaces.display.text_field
 (module), 188 (module), 202

ask_sdk_model.interfaces.custom_interfacesask_sdk_model.interfaces.display.toggle.set_ligh
 (module), 189 (module), 203

ask_sdk_model.interfaces.custom_interfacesask_sdk_model.interfaces.display.toggle.handler
 (module), 189 (module), 204

ask_sdk_model.interfaces.custom_interfacesask_sdk_model.interfaces.display.toggle.set_input_ha
 (module), 190 (module), 205

ask_sdk_model.interfaces.display.back_buask_sdk_model.interfaces.game_engine.stop_input_ha
 (module), 190 (module), 206

ask_sdk_model.interfaces.display.body_temask_sdk_model.interfaces.geolocation.access
 (module), 191 (module), 206

ask_sdk_model.interfaces.display.body_temask_sdk_model.interfaces.geolocation.altitude
 (module), 192 (module), 207

ask_sdk_model.interfaces.display.body_temask_sdk_model.interfaces.geolocation.coordinate

ask_sdk_model.interfaces.geolocation.geolocation (module), 207

ask_sdk_model.interfaces.geolocation.geolocation (module), 208

ask_sdk_model.interfaces.geolocation.geolocation (module), 208

ask_sdk_model.interfaces.geolocation.heading (module), 209

ask_sdk_model.interfaces.geolocation.location (module), 209

ask_sdk_model.interfaces.geolocation.speed (module), 210

ask_sdk_model.interfaces.geolocation.status (module), 210

ask_sdk_model.interfaces.messaging.message (module), 211

ask_sdk_model.interfaces.monetization.video (module), 212

ask_sdk_model.interfaces.monetization.video (module), 212

ask_sdk_model.interfaces.navigation.assistive (module), 213

ask_sdk_model.interfaces.navigation.navigation (module), 213

ask_sdk_model.interfaces.playbackcontrol (module), 214

ask_sdk_model.interfaces.playbackcontrol (module), 214

ask_sdk_model.interfaces.playbackcontrol (module), 215

ask_sdk_model.interfaces.playbackcontrol (module), 215

ask_sdk_model.interfaces.system.error (module), 216

ask_sdk_model.interfaces.system.error_cause (module), 217

ask_sdk_model.interfaces.system.error_type (module), 217

ask_sdk_model.interfaces.system.exceptions (module), 217

ask_sdk_model.interfaces.system.system_status (module), 218

ask_sdk_model.interfaces.tasks.complete_task_directive (module), 219

ask_sdk_model.interfaces.videoapp.launch_request (module), 220

ask_sdk_model.interfaces.videoapp.metadata (module), 220

ask_sdk_model.interfaces.videoapp.video_app_item (module), 220

ask_sdk_model.interfaces.videoapp.video_item (module), 221

ask_sdk_model.interfaces.viewport.apl.cursor (module), 221

ask_sdk_model.interfaces.viewport.apl.viewport_state (module), 222

ask_sdk_model.interfaces.viewport.apl.viewport_state (module), 226

ask_sdk_model.interfaces.viewport.apl.viewport_state (module), 222

ask_sdk_model.interfaces.viewport.apl.viewport_state (module), 223

ask_sdk_model.interfaces.viewport.apl.viewport_state (module), 223

ask_sdk_model.interfaces.viewport.apl.viewport_state (module), 227

ask_sdk_model.interfaces.viewport.experience (module), 228

ask_sdk_model.interfaces.viewport.keyboard (module), 228

ask_sdk_model.interfaces.viewport.mode (module), 229

ask_sdk_model.interfaces.viewport.presentation_type (module), 229

ask_sdk_model.interfaces.viewport.shape (module), 229

ask_sdk_model.interfaces.viewport.size.continuous_viewport (module), 224

ask_sdk_model.interfaces.viewport.size.discrete_viewport (module), 224

ask_sdk_model.interfaces.viewport.size.viewport_size (module), 225

ask_sdk_model.interfaces.viewport.touch (module), 230

ask_sdk_model.interfaces.viewport.viewports (module), 230

ask_sdk_model.interfaces.viewport.video.codecs (module), 226

ask_sdk_model.interfaces.viewport.viewport_state (module), 231

ask_sdk_model.interfaces.viewport.viewport_state_viewport (module), 232

ask_sdk_model.interfaces.viewport.viewport_video (module), 232

ask_sdk_model.launch_request (module), 318

ask_sdk_model.permission_status (module), 319

ask_sdk_model.permissions (module), 319

ask_sdk_model.person (module), 320

ask_sdk_model.request (module), 320

ask_sdk_model.request_envelope (module), 324

ask_sdk_model.response (module), 324

ask_sdk_model.response_envelope (module), 325

ask_sdk_model.scope (module), 326

ask_sdk_model.configurations.api_client (module), 298

ask_sdk_model.configurations.api_client_message (module), 298

ask_sdk_model.services.api_client_request (module), 298

ask_sdk_model.services.api_client_response (module), 299

ask_sdk_model.services.api_configuration (module), 299

ask_sdk_model.services.api_response (module), 299

ask_sdk_model.services.authentication_cookie (module), 300

ask_sdk_model.services.base_service_client (module), 300

ask_sdk_model.services.device_address.address (module), 233

ask_sdk_model.services.device_address.device_address_model (module), 234

ask_sdk_model.services.device_address.error (module), 234

ask_sdk_model.services.device_address.share_address (module), 235

ask_sdk_model.services.directive.directive (module), 235

ask_sdk_model.services.directive.directive_model (module), 236

ask_sdk_model.services.directive.error (module), 236

ask_sdk_model.services.directive.header (module), 237

ask_sdk_model.services.directive.send_directive (module), 237

ask_sdk_model.services.directive.speak_directive (module), 238

ask_sdk_model.services.endpoint_enumeration (module), 238

ask_sdk_model.services.endpoint_enumeration_model (module), 239

ask_sdk_model.services.endpoint_enumeration_model_line (module), 240

ask_sdk_model.services.endpoint_enumeration_model_line_type (module), 240

ask_sdk_model.services.gadget_controller (module), 241

ask_sdk_model.services.gadget_controller_model (module), 241

ask_sdk_model.services.gadget_controller_model_parameters (module), 242

ask_sdk_model.services.gadget_controller_model_type (module), 242

ask_sdk_model.services.game_engine.deviation (module), 243

ask_sdk_model.services.game_engine.event_reporting (module), 244

ask_sdk_model.services.game_engine.input_event (module), 245

ask_sdk_model.services.game_engine.input_event_action (module), 245

ask_sdk_model.services.game_engine.input_handler_event (module), 246

ask_sdk_model.services.game_engine.pattern (module), 246

ask_sdk_model.services.game_engine.pattern_recognition (module), 247

ask_sdk_model.services.game_engine.pattern_recognition_model (module), 247

ask_sdk_model.services.game_engine.progress_recognition (module), 248

ask_sdk_model.services.game_engine.recognizer (module), 248

ask_sdk_model.services.list_management.alex_list (module), 249

ask_sdk_model.services.list_management.alex_list_model (module), 250

ask_sdk_model.services.list_management.alex_list_model_line (module), 251

ask_sdk_model.services.list_management.alex_lists (module), 251

ask_sdk_model.services.list_management.create_list (module), 252

ask_sdk_model.services.list_management.create_list_model (module), 252

ask_sdk_model.services.list_management.error (module), 252

ask_sdk_model.services.list_management.forbidden_error (module), 253

ask_sdk_model.services.list_management.links (module), 253

ask_sdk_model.services.list_management.management_list_body (module), 253

ask_sdk_model.services.list_management.list_created (module), 254

ask_sdk_model.services.list_management.list_deleted (module), 255

ask_sdk_model.services.list_management.list_item_body (module), 255

ask_sdk_model.services.list_management.list_item_status (module), 256

ask_sdk_model.services.list_management.list_items_created (module), 256

ask_sdk_model.services.list_management.list_items_deleted (module), 257

ask_sdk_model.services.list_management.list_items_updated (module), 257

ask_sdk_model.services.list_management.list_manager (module), 257

(*module*), 258

ask_sdk_model.services.list_management.lask_sdk_model.services.proactive_events.proactive_events (*module*), 260

ask_sdk_model.services.list_management.lask_sdk_model.services.proactive_events.proactive_events.proactive_events.relevant_a (*module*), 261

ask_sdk_model.services.list_management.lask_sdk_model.services.proactive_events.proactive_events.relevant_a (*module*), 261

ask_sdk_model.services.list_management.lask_sdk_model.services.proactive_events.proactive_events.skill_stage (*module*), 262

ask_sdk_model.services.list_management.lask_sdk_model.services.proactive_events.proactive_events.skill_stage (*module*), 262

ask_sdk_model.services.lwa.access_token ask_sdk_model.services.reminder_management.alert_in (*module*), 263

ask_sdk_model.services.lwa.access_token ask_sdk_model.services.reminder_management.alert_in (*module*), 263

ask_sdk_model.services.lwa.access_token ask_sdk_model.services.reminder_management.error (*module*), 264

ask_sdk_model.services.lwa.access_token ask_sdk_model.services.reminder_management.event (*module*), 264

ask_sdk_model.services.lwa.error (*module*), 264

ask_sdk_model.services.lwa.lwa_client ask_sdk_model.services.reminder_management.get_rem (*module*), 265

ask_sdk_model.services.lwa.lwa_client ask_sdk_model.services.reminder_management.get_rem (*module*), 265

ask_sdk_model.services.monetization.entiask_sdk_model.services.reminder_management.push_not (*module*), 266

ask_sdk_model.services.monetization.entiask_sdk_model.services.reminder_management.push_not (*module*), 266

ask_sdk_model.services.monetization.errorask_sdk_model.services.reminder_management.recurr (*module*), 267

ask_sdk_model.services.monetization.in_skill_sdk_model.services.reminder_management.recurr (*module*), 267

ask_sdk_model.services.monetization.in_skill_sdk_model.services.reminder_management.recurr (*module*), 267

ask_sdk_model.services.monetization.in_skill_sdk_model.services.reminder_management.recurr (*module*), 268

ask_sdk_model.services.monetization.in_skill_sdk_model.services.response.reminder_management.reminder (*module*), 269

ask_sdk_model.services.monetization.in_skill_sdk_model.services.response.reminder_management.reminder (*module*), 269

ask_sdk_model.services.monetization.metadask_sdk_model.services.reminder_management.reminder (*module*), 269

ask_sdk_model.services.monetization.metadask_sdk_model.services.reminder_management.reminder (*module*), 269

ask_sdk_model.services.monetization.moneask_sdk_model.services.reminder_management.reminder (*module*), 269

ask_sdk_model.services.monetization.prodask_sdk_model.services.reminder_management.reminder (*module*), 271

ask_sdk_model.services.monetization.prodask_sdk_model.services.reminder_management.reminder (*module*), 271

ask_sdk_model.services.monetization.purchask_sdk_model.services.reminder_management.reminder (*module*), 272

ask_sdk_model.services.monetization.purchask_sdk_model.services.reminder_management.reminder (*module*), 272

ask_sdk_model.services.monetization.purchask_sdk_model.services.reminder_management.reminder (*module*), 272

ask_sdk_model.services.monetization.resulask_sdk_model.services.reminder_management.reminder (*module*), 272

ask_sdk_model.services.monetization.resulask_sdk_model.services.reminder_management.reminder (*module*), 272

ask_sdk_model.services.monetization.statask_sdk_model.services.reminder_management.reminder (*module*), 273

ask_sdk_model.services.monetization.statask_sdk_model.services.reminder_management.reminder (*module*), 273

ask_sdk_model.services.monetization.transask_sdk_model.services.reminder_management.reminder (*module*), 273

ask_sdk_model.services.monetization.transask_sdk_model.services.reminder_management.reminder (*module*), 273

ask_sdk_model.services.proactive_events.ask_sdk_model.services.reminder_management.reminder (*module*), 274

ask_sdk_model.services.proactive_events.ask_sdk_model.services.reminder_management.reminder (*module*), 274

ask_sdk_model.services.proactive_events.ask_sdk_model.services.reminder_management.spoken_t (*module*), 275

ask_sdk_model.services.proactive_events.ask_sdk_model.services.reminder_management.spoken_t (*module*), 275

ask_sdk_model.services.proactive_events.ask_sdk_model.services.reminder_management.status (*module*), 275

(module), 291
 ask_sdk_model.services.reminder_management (module), 291
 ask_sdk_model.services.reminder_management (module), 292
 ask_sdk_model.services.serializer (module), 301
 ask_sdk_model.services.service_client_factory (module), 301
 ask_sdk_model.services.service_client_response (module), 302
 ask_sdk_model.services.service_exception (module), 303
 ask_sdk_model.services.skill_messaging_error (module), 292
 ask_sdk_model.services.skill_messaging_send_skill_message_in_request_text_output_speech (module), 293
 ask_sdk_model.services.skill_messaging_skill_message_in_request_text_output_speech (module), 293
 ask_sdk_model.services.ups.distance_unit (module), 294
 ask_sdk_model.services.ups.error (module), 294
 ask_sdk_model.services.ups.error_code (module), 295
 ask_sdk_model.services.ups.phone_number (module), 295
 ask_sdk_model.services.ups.temperature_unit (module), 296
 ask_sdk_model.services.ups.ups_service_client (module), 296
 ask_sdk_model.session (module), 326
 ask_sdk_model.session_ended_error (module), 327
 ask_sdk_model.session_ended_error_type (module), 327
 ask_sdk_model.session_ended_reason (module), 327
 ask_sdk_model.session_ended_request (module), 328
 ask_sdk_model.session_resumed_request (module), 329
 ask_sdk_model.slot (module), 329
 ask_sdk_model.slot_confirmation_status (module), 330
 ask_sdk_model.slu.entityresolution.resolution (module), 303
 ask_sdk_model.slu.entityresolution.resolutions (module), 304
 ask_sdk_model.slu.entityresolution.status (module), 304
 ask_sdk_model.slu.entityresolution.status_code (module), 305
 ask_sdk_model.slu.entityresolution.value (module), 305
 ask_sdk_model.slu.entityresolution.value_wrapper (module), 305
 ask_sdk_model.typestatus (module), 330
 ask_sdk_model.supported_interfaces (module), 331
 ask_sdk_model.task (module), 332
 ask_sdk_model.ui.ask_for_permissions_consent_card (module), 306
 ask_sdk_model.ui.card (module), 306
 ask_sdk_model.ui.image (module), 307
 ask_sdk_model.ui.link_account_card (module), 307
 ask_sdk_model.ui.output_speech (module), 308
 ask_sdk_model.ui.private_behavior (module), 309
 ask_sdk_model.ui.reprompt (module), 309
 ask_sdk_model.ui.simple_card (module), 309
 ask_sdk_model.ui.ssmml_output_speech (module), 310
 ask_sdk_model.ui.standard_card (module), 310
 ask_sdk_model.user (module), 332
 ask_sdk_model_runtime.api_client (module), 58
 ask_sdk_model_runtime.api_client_message (module), 59
 ask_sdk_model_runtime.api_client_request (module), 59
 ask_sdk_model_runtime.api_client_response (module), 59
 ask_sdk_model_runtime.api_configuration (module), 60
 ask_sdk_model_runtime.api_response (module), 60
 ask_sdk_model_runtime.authentication_configuration (module), 60
 ask_sdk_model_runtime.base_service_client (module), 61
 ask_sdk_model_runtime.exceptions (module), 61
 ask_sdk_model_runtime.lwa.access_token (module), 55
 ask_sdk_model_runtime.lwa.access_token_request (module), 56
 ask_sdk_model_runtime.lwa.access_token_response (module), 56
 ask_sdk_model_runtime.lwa.error (module), 57
 ask_sdk_model_runtime.lwa.lwa_client (module), 57

ask_sdk_model_runtime.serializer (module), 62

ask_sdk_model_runtime.service_client_response (module), 63

ask_sdk_runtime.dispatch (module), 3, 6

ask_sdk_runtime.dispatch_components.exceptions (module), 5, 8

ask_sdk_runtime.dispatch_components.request_components (module), 3, 7

ask_sdk_runtime.exceptions (module), 13

ask_sdk_runtime.skill (module), 9

ask_sdk_runtime.skill_builder (module), 11

ask_sdk_s3.adapter (module), 51

ask_sdk_s3.object_keygen (module), 52

ask_sdk_webservice_support.verifier (module), 44

ask_sdk_webservice_support.verifier_constants (module), 43

ask_sdk_webservice_support.webservice_handler (module), 45

ask_smapi_model.services.skill_management.skill_management (module), 334

ask_smapi_model.v1.bad_request_error (module), 556

ask_smapi_model.v1.catalog.create_content_upload_request (module), 387

ask_smapi_model.v1.catalog.create_content_upload_response (module), 387

ask_smapi_model.v1.catalog.presigned_upload_parameters (module), 388

ask_smapi_model.v1.catalog.upload.catalog_upload (module), 382

ask_smapi_model.v1.catalog.upload.content_upload (module), 382

ask_smapi_model.v1.catalog.upload.file_upload_step (module), 382

ask_smapi_model.v1.catalog.upload.get_content_upload_response (module), 383

ask_smapi_model.v1.catalog.upload.ingestion_step (module), 384

ask_smapi_model.v1.catalog.upload.ingestion_step (module), 384

ask_smapi_model.v1.catalog.upload.location (module), 384

ask_smapi_model.v1.catalog.upload.pre_signed_upload (module), 385

ask_smapi_model.v1.catalog.upload.pre_signed_upload_step (module), 385

ask_smapi_model.v1.catalog.upload.upload_step (module), 386

ask_smapi_model.v1.catalog.upload.upload_step (module), 386

ask_smapi_model.v1.error (module), 556

ask_smapi_model.v1.isp.associated_skill_response (module), 388

ask_smapi_model.v1.isp.create_in_skill_product_request (module), 389

ask_smapi_model.v1.isp.currency (module), 389

ask_smapi_model.v1.isp.custom_product_prompts (module), 390

ask_smapi_model.v1.isp.distribution_countries (module), 390

ask_smapi_model.v1.isp.editable_state (module), 397

ask_smapi_model.v1.isp.in_skill_product_definition (module), 398

ask_smapi_model.v1.isp.in_skill_product_definition_step (module), 399

ask_smapi_model.v1.isp.in_skill_product_summary (module), 399

ask_smapi_model.v1.isp.in_skill_product_summary_request (module), 399

ask_smapi_model.v1.isp.isp_summary_links (module), 400

ask_smapi_model.v1.isp.in_skill_product_summary_request (module), 400

ask_smapi_model.v1.isp.list_in_skill_product (module), 401

ask_smapi_model.v1.isp.list_in_skill_product_response (module), 401

ask_smapi_model.v1.isp.localized_privacy_and_compliance (module), 402

ask_smapi_model.v1.isp.localized_publishing_information (module), 402

ask_smapi_model.v1.isp.marketplace_pricing (module), 403

ask_smapi_model.v1.isp.price_listing (module), 404

ask_smapi_model.v1.isp.summary (module), 404

ask_smapi_model.v1.isp.privacy_and_compliance (module), 404

ask_smapi_model.v1.isp.product_response (module), 404

ask_smapi_model.v1.isp.product_type (module), 405

ask_smapi_model.v1.isp.publishing_information (module), 405

ask_smapi_model.v1.isp.purchasable_state (module), 406

ask_smapi_model.v1.isp.stage (module), 406

ask_smapi_model.v1.isp.status (module), 407

ask_smapi_model.v1.isp.subscription_information (module), 407

ask_smapi_model.v1.isp.subscription_payment_frequency (module), 407

ask_smapi_model.v1.isp.summary_marketplace_pricing (module), 408

ask_smapi_model.v1.isp.summary_price_listing (module), 408

ask_smapi_model.v1.skill.evaluations.resask_smapi_model.v1.skill.instance (mod-
 (module), 433 (module), 541
 ask_smapi_model.v1.skill.evaluations.resask_smapi_model.v1.skill.interaction_model.catalog
 (module), 433 (module), 442
 ask_smapi_model.v1.skill.evaluations.resask_smapi_model.v1.skill.interaction_model.catalog
 (module), 434 (module), 443
 ask_smapi_model.v1.skill.evaluations.sloask_smapi_model.v1.skill.interaction_model.catalog
 (module), 434 (module), 443
 ask_smapi_model.v1.skill.evaluations.sloask_smapi_model.v1.skill.interaction_model.catalog
 (module), 435 (module), 444
 ask_smapi_model.v1.skill.export_responseask_smapi_model.v1.skill.interaction_model.catalog
 (module), 537 (module), 444
 ask_smapi_model.v1.skill.export_responseask_smapi_model.v1.skill.interaction_model.catalog
 (module), 538 (module), 445
 ask_smapi_model.v1.skill.history.confideask_smapi_model.v1.skill.interaction_model.catalog
 (module), 435 (module), 445
 ask_smapi_model.v1.skill.history.confideask_smapi_model.v1.skill.interaction_model.catalog
 (module), 436 (module), 445
 ask_smapi_model.v1.skill.history.dialog_ask_smapi_model.v1.skill.interaction_model.catalog
 (module), 436 (module), 446
 ask_smapi_model.v1.skill.history.dialog_ask_smapi_model.v1.skill.interaction_model.catalog
 (module), 436 (module), 446
 ask_smapi_model.v1.skill.history.intent ask_smapi_model.v1.skill.interaction_model.catalog
 (module), 437 (module), 447
 ask_smapi_model.v1.skill.history.intent_ask_smapi_model.v1.skill.interaction_model.catalog
 (module), 437 (module), 453
 ask_smapi_model.v1.skill.history.intent_rekask_smapi_model.v1.skill.interaction_model.delegat
 (module), 438 (module), 453
 ask_smapi_model.v1.skill.history.intent_rekask_smapi_model.v1.skill.interaction_model.dialog
 (module), 439 (module), 453
 ask_smapi_model.v1.skill.history.intent_rekask_smapi_model.v1.skill.interaction_model.dialog
 (module), 439 (module), 454
 ask_smapi_model.v1.skill.history.interactask_smapi_model.v1.skill.interaction_model.dialog
 (module), 440 (module), 455
 ask_smapi_model.v1.skill.history.locale_ask_smapi_model.v1.skill.interaction_model.dialog_p
 (module), 440 (module), 455
 ask_smapi_model.v1.skill.history.publicatask_smapi_model.v1.skill.interaction_model.dialog_p
 (module), 441 (module), 456
 ask_smapi_model.v1.skill.history.slot ask_smapi_model.v1.skill.interaction_model.has_ent
 (module), 441 (module), 456
 ask_smapi_model.v1.skill.history.sort_fieask_smapi_model.v1.skill.interaction_model.intent
 (module), 441 (module), 457
 ask_smapi_model.v1.skill.image_attributask_smapi_model.v1.skill.interaction_model.interact
 (module), 538 (module), 458
 ask_smapi_model.v1.skill.image_dimensionask_smapi_model.v1.skill.interaction_model.interact
 (module), 539 (module), 458
 ask_smapi_model.v1.skill.image_size ask_smapi_model.v1.skill.interaction_model.is_great
 (module), 539 (module), 459
 ask_smapi_model.v1.skill.image_size_unitask_smapi_model.v1.skill.interaction_model.is_great
 (module), 540 (module), 459
 ask_smapi_model.v1.skill.import_responseask_smapi_model.v1.skill.interaction_model.is_in_du
 (module), 540 (module), 460
 ask_smapi_model.v1.skill.import_responseask_smapi_model.v1.skill.interaction_model.is_in_se
 (module), 540 (module), 460

ask_smapi_model.v1.skill.interaction_model.kissmbdhan.v1.skill.manifest.audio_interface
 (module), 461 (module), 470

ask_smapi_model.v1.skill.interaction_model.kissmbdhan.vr_skill_manifest.connections
 (module), 461 (module), 470

ask_smapi_model.v1.skill.interaction_model.kissmbdhan.vr_skill_manifest.connections_payload
 (module), 462 (module), 471

ask_smapi_model.v1.skill.interaction_model.kissmbdhan.v1.skill.manifest.custom_apis
 (module), 462 (module), 471

ask_smapi_model.v1.skill.interaction_model.kissmbdhan.v1.skill.manifest.custom_connection
 (module), 463 (module), 472

ask_smapi_model.v1.skill.interaction_model.kissmbdhan.v1.skill.manifest.custom_interface
 (module), 463 (module), 472

ask_smapi_model.v1.skill.interaction_model.kissmbdhan.v1.skill.manifest.display_interface
 (module), 464 (module), 473

ask_smapi_model.v1.skill.interaction_model.kissmbdhan.v1.skill.manifest.display_interface_type
 (module), 464 (module), 473

ask_smapi_model.v1.skill.interaction_model.kissmbdhan.v1.skill.manifest.display_interface_definition
 (module), 465 (module), 474

ask_smapi_model.v1.skill.interaction_model.kissmbdhan.v1.skill.manifest.distribution_count
 (module), 465 (module), 474

ask_smapi_model.v1.skill.interaction_model.kissmbdhan.v1.skill.manifest.distribution_model
 (module), 466 (module), 481

ask_smapi_model.v1.skill.interaction_model.kissmbdhan.v1.skill.manifest.event_name
 (module), 467 (module), 481

ask_smapi_model.v1.skill.interaction_model.kissmbdhan.v1.skill.manifest.event_name_type
 (module), 467 (module), 482

ask_smapi_model.v1.skill.interaction_model.kissmbdhan.v1.skill.manifest.event_publication
 (module), 448 (module), 490

ask_smapi_model.v1.skill.interaction_model.kissmbdhan.v1.skill.manifest.flash_briefing_ap
 (module), 448 (module), 491

ask_smapi_model.v1.skill.interaction_model.kissmbdhan.v1.skill.manifest.flash_briefing_co
 (module), 449 (module), 491

ask_smapi_model.v1.skill.interaction_model.kissmbdhan.v1.skill.manifest.flash_briefing_ge
 (module), 449 (module), 491

ask_smapi_model.v1.skill.interaction_model.kissmbdhan.v1.skill.manifest.flash_briefing_up
 (module), 450 (module), 492

ask_smapi_model.v1.skill.interaction_model.kissmbdhan.v1.skill.manifest.gadget_controlle
 (module), 450 (module), 492

ask_smapi_model.v1.skill.interaction_model.kissmbdhan.v1.skill.manifest.gadget_support
 (module), 450 (module), 493

ask_smapi_model.v1.skill.interaction_model.kissmbdhan.v1.skill.manifest.game_engine_inter
 (module), 451 (module), 493

ask_smapi_model.v1.skill.interaction_model.kissmbdhan.v1.skill.manifest.health_alias
 (module), 451 (module), 493

ask_smapi_model.v1.skill.interaction_model.kissmbdhan.v1.skill.manifest.health_apis
 (module), 452 (module), 494

ask_smapi_model.v1.skill.list_skill_response.kissmbdhan.v1.skill.manifest.health_interface
 (module), 542 (module), 494

ask_smapi_model.v1.skill.manifest.alexaskissmbdhan.v1.skill.manifest.health_protocol_v
 (module), 468 (module), 495

ask_smapi_model.v1.skill.manifest.alexaskissmbdhan.v1.skill.manifest.health_request
 (module), 469 (module), 495

ask_smapi_model.v1.skill.manifest.alexaskissmbdhan.v1.skill.manifest.house_hold_list
 (module), 470 (module), 496

ask_smapi_model.v1.skill.manifest.interfacask_smapi_model.v1.skill.manifest.skill_manifest_ev
 (module), 496 (module), 510

ask_smapi_model.v1.skill.manifest.lambdaask_smapi_model.v1.skill.manifest.skill_manifest_l
 (module), 497 (module), 511

ask_smapi_model.v1.skill.manifest.lambdaask_smapi_model.v1.skill.manifest.skill_manifest_l
 (module), 497 (module), 512

ask_smapi_model.v1.skill.manifest.localizask_smapi_model.v1.skill.manifest.skill_manifest_pr
 (module), 498 (module), 513

ask_smapi_model.v1.skill.manifest.localizask_smapi_model.v1.skill.manifest.skill_manifest_pr
 (module), 498 (module), 514

ask_smapi_model.v1.skill.manifest.localizask_smapi_model.v1.skill.manifest.smart_home_apis
 (module), 499 (module), 515

ask_smapi_model.v1.skill.manifest.localizask_smapi_model.v1.skill.manifest.smart_home_protoc
 (module), 500 (module), 515

ask_smapi_model.v1.skill.manifest.manifestask_smapi_model.v1.skill.manifest.ssl_certificate_t
 (module), 500 (module), 516

ask_smapi_model.v1.skill.manifest.music_askask_smapi_model.v1.skill.manifest.up_channel_items
 (module), 501 (module), 516

ask_smapi_model.v1.skill.manifest.music_apkask_smapi_model.v1.skill.manifest.version
 (module), 501 (module), 516

ask_smapi_model.v1.skill.manifest.music_apask_smapi_model.v1.skill.manifest.video_apis
 (module), 502 (module), 517

ask_smapi_model.v1.skill.manifest.music_ask_smapi_model.v1.skill.manifest.video_apis_locale
 (module), 502 (module), 517

ask_smapi_model.v1.skill.manifest.music_ask_smapi_model.v1.skill.manifest.video_app_interfa
 (module), 503 (module), 518

ask_smapi_model.v1.skill.manifest.music_fask_smapi_model.v1.skill.manifest.video_catalog_in
 (module), 503 (module), 518

ask_smapi_model.v1.skill.manifest.music_ask_smapi_model.v1.skill.manifest.video_country_in
 (module), 503 (module), 519

ask_smapi_model.v1.skill.manifest.music_reask_smapi_model.v1.skill.manifest.video_region
 (module), 504 (module), 519

ask_smapi_model.v1.skill.manifest.music_wask_smapi_model.v1.skill.manifest.viewport_mode
 (module), 504 (module), 519

ask_smapi_model.v1.skill.manifest.permissask_smapi_model.v1.skill.manifest.viewport_shape
 (module), 504 (module), 520

ask_smapi_model.v1.skill.manifest.permissask_smapi_model.v1.skill.manifest.viewport_specifi
 (module), 505 (module), 520

ask_smapi_model.v1.skill.manifest.regionask_smapi_model.v1.skill.metrics.get_metric_data_re
 (module), 506 (module), 521

ask_smapi_model.v1.skill.manifest.requestask_smapi_model.v1.skill.metrics.metric
 (module), 507 (module), 522

ask_smapi_model.v1.skill.manifest.requestask_smapi_model.v1.skill.metrics.period
 (module), 507 (module), 522

ask_smapi_model.v1.skill.manifest.skill_makask_smapi_model.v1.skill.metrics.skill_type
 (module), 507 (module), 523

ask_smapi_model.v1.skill.manifest.skill_makask_smapi_model.v1.skill.metrics.stage_for_metric
 (module), 508 (module), 523

ask_smapi_model.v1.skill.manifest.skill_makask_smapi_model.v1.skill.private.accept_status
 (module), 509 (module), 523

ask_smapi_model.v1.skill.manifest.skill_makask_smapi_model.v1.skill.private.list_private_dist
 (module), 509 (module), 524

ask_smapi_model.v1.skill.manifest.skill_makask_smapi_model.v1.skill.private.private_distribut
 (module), 510 (module), 524

[attribute](#)), 391
[AT \(ask_smapl_model.v1.skill.manifest.distribution_countries_distribution_capability\)](#) (ask_sdk_model.events.skill_events.skill_disabled_request.attribute), 474
[attribute_map \(ask_sdk_model.application.Application.attribute_map\)](#) (ask_sdk_model.events.skill_events.skill_enabled_request.attribute), 311
[attribute_map \(ask_sdk_model.canfulfill.can_fulfill_intent_can_fulfill_intent\)](#) (ask_sdk_model.intent.Intent.attribute), 66
[attribute_map \(ask_sdk_model.canfulfill.can_fulfill_intent_request_can_fulfill_intent_request\)](#) (ask_sdk_model.intent.IntentRequest.attribute), 66
[attribute_map \(ask_sdk_model.canfulfill.can_fulfill_slot_can_fulfill_slot\)](#) (ask_sdk_model.interfaces.alexapresentation.apl.alexapresentation.attribute), 67
[attribute_map \(ask_sdk_model.cause.Cause.attribute\)](#) (ask_sdk_model.interfaces.alexapresentation.apl.animation.attribute), 311
[attribute_map \(ask_sdk_model.connection_completed.ConnectionCompleted\)](#) (ask_sdk_model.interfaces.alexapresentation.apl.animation.attribute), 312
[attribute_map \(ask_sdk_model.context.Context.attribute\)](#) (ask_sdk_model.interfaces.alexapresentation.apl.animation.attribute), 313
[attribute_map \(ask_sdk_model.device.Device.attribute\)](#) (ask_sdk_model.interfaces.alexapresentation.apl.animation.attribute), 313
[attribute_map \(ask_sdk_model.dialog.confirm_intent_directive_confirm_intent_directive\)](#) (ask_sdk_model.interfaces.alexapresentation.apl.autoattribute), 69
[attribute_map \(ask_sdk_model.dialog.confirm_slot_directive_confirm_slot_directive\)](#) (ask_sdk_model.interfaces.alexapresentation.apl.clearattribute), 69
[attribute_map \(ask_sdk_model.dialog.delegate_directive_delegate_directive\)](#) (ask_sdk_model.interfaces.alexapresentation.apl.command.attribute), 69
[attribute_map \(ask_sdk_model.dialog.dynamic_entities_directive_dynamic_entities_directive\)](#) (ask_sdk_model.interfaces.alexapresentation.apl.compattribute), 70
[attribute_map \(ask_sdk_model.dialog.elicit_slot_directive_elicit_slot_directive\)](#) (ask_sdk_model.interfaces.alexapresentation.apl.compattribute), 70
[attribute_map \(ask_sdk_model.directive.Directive.attribute\)](#) (ask_sdk_model.interfaces.alexapresentation.apl.compattribute), 316
[attribute_map \(ask_sdk_model.er.dynamic.entity.Entity.attribute\)](#) (ask_sdk_model.interfaces.alexapresentation.apl.compattribute), 71
[attribute_map \(ask_sdk_model.er.dynamic.entity_list_item.EntityListItem\)](#) (ask_sdk_model.interfaces.alexapresentation.apl.compattribute), 71
[attribute_map \(ask_sdk_model.er.dynamic.entity_value_and_synonyms.EntityValueAndSynonyms\)](#) (ask_sdk_model.interfaces.alexapresentation.apl.compattribute), 72
[attribute_map \(ask_sdk_model.events.skill_events.account_linked_body.AccountLinkedBody\)](#) (ask_sdk_model.interfaces.alexapresentation.apl.compattribute), 73
[attribute_map \(ask_sdk_model.events.skill_events.account_linked_request.AccountLinkedRequest\)](#) (ask_sdk_model.interfaces.alexapresentation.apl.compattribute), 74
[attribute_map \(ask_sdk_model.events.skill_events.permission.Permission\)](#) (ask_sdk_model.interfaces.alexapresentation.apl.compattribute), 74
[attribute_map \(ask_sdk_model.events.skill_events.permission_accepted_request.PermissionAcceptedRequest\)](#) (ask_sdk_model.interfaces.alexapresentation.apl.contribute), 75
[attribute_map \(ask_sdk_model.events.skill_events.permission_body.PermissionBody\)](#) (ask_sdk_model.interfaces.alexapresentation.apl.executeattribute), 75
[attribute_map \(ask_sdk_model.events.skill_events.permission_change_request.PermissionChangeRequest\)](#) (ask_sdk_model.interfaces.alexapresentation.apl.idleattribute), 76
[attribute_map \(ask_sdk_model.events.skill_events.proactive_subscription_change_body.ProactiveSubscriptionChangeBody\)](#) (ask_sdk_model.interfaces.alexapresentation.apl.moveattribute), 76
[attribute_map \(ask_sdk_model.events.skill_events.proactive_subscription_change_request.ProactiveSubscriptionChangeRequest\)](#) (ask_sdk_model.interfaces.alexapresentation.apl.moveattribute), 77
[attribute_map \(ask_sdk_model.events.skill_events.proactive_subscription_cancel_request.ProactiveSubscriptionCancelRequest\)](#) (ask_sdk_model.interfaces.alexapresentation.apl.parallelattribute), 77

- `attribute`), 98
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.play_media`), 118
- `attribute`), 99
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 118
- `attribute`), 100
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 119
- `attribute`), 100
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 120
- `attribute`), 101
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 121
- `attribute`), 101
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 122
- `attribute`), 101
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 123
- `attribute`), 102
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 124
- `attribute`), 103
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 125
- `attribute`), 104
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 125
- `attribute`), 105
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 126
- `attribute`), 106
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 126
- `attribute`), 107
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 127
- `attribute`), 108
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 128
- `attribute`), 108
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 128
- `attribute`), 109
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 129
- `attribute`), 110
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 131
- `attribute`), 110
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 132
- `attribute`), 111
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 133
- `attribute`), 112
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 134
- `attribute`), 112
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 135
- `attribute`), 113
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 135
- `attribute`), 114
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 136
- `attribute`), 115
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 137
- `attribute`), 116
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 139
- `attribute`), 116
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 140
- `attribute`), 117
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 141
- `attribute`), 118
- `attribute_map` (`ask_sdk_model.interfaces.alexapresentation.apl.render_audio`), 141

attribute), 180
 attribute_map(ask_sdk_model.interfaces.custom_interface_controller.RenderTaskSdkModel.interfaces.display.render_template_dir
 attribute), 184
 attribute_map(ask_sdk_model.interfaces.custom_interface_controller.RenderTaskSdkModel.interfaces.display.rich_text.RichText
 attribute), 185
 attribute_map(ask_sdk_model.interfaces.custom_interface_controller.RenderTaskSdkModel.interfaces.display.template.Template
 attribute), 185
 attribute_map(ask_sdk_model.interfaces.custom_interface_controller.RenderTaskSdkModel.interfaces.display.text_content.TextContent
 attribute), 186
 attribute_map(ask_sdk_model.interfaces.custom_interface_controller.RenderTaskSdkModel.interfaces.display.text_field.TextField
 attribute), 187
 attribute_map(ask_sdk_model.interfaces.custom_interface_controller.RenderTaskSdkModel.interfaces.display.widget_controller.set_light_
 attribute), 188
 attribute_map(ask_sdk_model.interfaces.custom_interface_controller.RenderTaskSdkModel.interfaces.game_engine.input_handler.
 attribute), 188
 attribute_map(ask_sdk_model.interfaces.custom_interface_controller.RenderTaskSdkModel.interfaces.sand_digital_digital_start_input_ha
 attribute), 189
 attribute_map(ask_sdk_model.interfaces.custom_interface_controller.RenderTaskSdkModel.interfaces.sand_digital_digital_start_input_ha
 attribute), 190
 attribute_map(ask_sdk_model.interfaces.custom_interface_controller.RenderTaskSdkModel.interfaces.sand_digital_digital_start_input_ha
 attribute), 190
 attribute_map(ask_sdk_model.interfaces.display.body_template1.BodyTemplateSdkModel.interfaces.geolocation.coordinate.Coordinate
 attribute), 191
 attribute_map(ask_sdk_model.interfaces.display.body_template2.BodyTemplateSdkModel.interfaces.geolocation.geolocation_inte
 attribute), 192
 attribute_map(ask_sdk_model.interfaces.display.body_template3.BodyTemplateSdkModel.interfaces.geolocation.geolocation_sta
 attribute), 193
 attribute_map(ask_sdk_model.interfaces.display.body_template6.BodyTemplateSdkModel.interfaces.geolocation.heading.Heading
 attribute), 193
 attribute_map(ask_sdk_model.interfaces.display.body_template7.BodyTemplateSdkModel.interfaces.geolocation.location_service
 attribute), 194
 attribute_map(ask_sdk_model.interfaces.display.display_interface.DisplayInterfaceSdkModel.interfaces.geolocation.speed.Speed
 attribute), 194
 attribute_map(ask_sdk_model.interfaces.display.display_state.DisplayStateSdkModel.interfaces.messaging.message_receive
 attribute), 195
 attribute_map(ask_sdk_model.interfaces.display.element_renderer_request(ElementRendererRequestSdkModel.interfaces.monetization.v1.in_skill_pro
 attribute), 195
 attribute_map(ask_sdk_model.interfaces.display.hint.HintSdkModel.interfaces.navigation.assistance.announcement.Announcement
 attribute), 196
 attribute_map(ask_sdk_model.interfaces.display.hint_directive.HintDirectiveSdkModel.interfaces.navigation.navigation_interj
 attribute), 196
 attribute_map(ask_sdk_model.interfaces.display.image.ImageSdkModel.interfaces.playbackcontroller.next_command.NextCommand
 attribute), 197
 attribute_map(ask_sdk_model.interfaces.display.image_instance.ImageInstanceSdkModel.interfaces.playbackcontroller.pause_co
 attribute), 197
 attribute_map(ask_sdk_model.interfaces.display.list_item.ListItemSdkModel.interfaces.playbackcontroller.play_command.PlayCommand
 attribute), 198
 attribute_map(ask_sdk_model.interfaces.display.list_template1.ListTemplateSdkModel.interfaces.playbackcontroller.previous_
 attribute), 199
 attribute_map(ask_sdk_model.interfaces.display.list_template2.ListTemplateSdkModel.interfaces.system.error.Error
 attribute), 199
 attribute_map(ask_sdk_model.interfaces.display.plain_text.PlainTextSdkModel.interfaces.system.error_cause.ErrorCause
 attribute), 200
 attribute_map(ask_sdk_model.interfaces.display.plain_text_hint.PlainTextHintSdkModel.interfaces.system.exception_encounter

[attribute](#)), 218
[attribute_map](#) ([ask_sdk_model.interfaces.system.system_state.SystemState](#) ([ask_sdk_model.services.device_address.address.Address](#)
[attribute](#)), 218
[attribute_map](#) ([ask_sdk_model.interfaces.tasks.complete_task_directive.CompleteTaskDirective](#) ([ask_sdk_model.services.device_address.error.Error](#)
[attribute](#)), 219
[attribute_map](#) ([ask_sdk_model.interfaces.videoapp.launch_directive.LaunchDirective](#) ([ask_sdk_model.services.device_address.short_address.ShortAddress](#)
[attribute](#)), 220
[attribute_map](#) ([ask_sdk_model.interfaces.videoapp.metadata.Metadata](#) ([ask_sdk_model.services.directive.directive.Directive](#)
[attribute](#)), 220
[attribute_map](#) ([ask_sdk_model.interfaces.videoapp.video_app_interface.VideoAppInterface](#) ([ask_sdk_model.services.directive.error.Error](#)
[attribute](#)), 220
[attribute_map](#) ([ask_sdk_model.interfaces.videoapp.video_title.VideoTitle](#) ([ask_sdk_model.services.directive.header.Header](#)
[attribute](#)), 221
[attribute_map](#) ([ask_sdk_model.interfaces.viewport.apl.current_configuration.CurrentConfiguration](#) ([ask_sdk_model.services.directive.send_directive_request.SendDirectiveRequest](#)
[attribute](#)), 222
[attribute_map](#) ([ask_sdk_model.interfaces.viewport.apl.viewport_configuration.ViewportConfiguration](#) ([ask_sdk_model.services.directive.speak_directive.SpeakDirective](#)
[attribute](#)), 222
[attribute_map](#) ([ask_sdk_model.interfaces.viewport.apl.viewport_state.APLViewportState](#) ([ask_sdk_model.services.endpoint_enumeration.endpoint.Endpoint](#)
[attribute](#)), 227
[attribute_map](#) ([ask_sdk_model.interfaces.viewport.apl.intersegment_data.IntersegmentData](#) ([ask_sdk_model.services.endpoint_enumeration.endpoint.Endpoint](#)
[attribute](#)), 223
[attribute_map](#) ([ask_sdk_model.interfaces.viewport.apl.viewport_state.APLViewportState](#) ([ask_sdk_model.services.endpoint_enumeration.endpoint.Endpoint](#)
[attribute](#)), 228
[attribute_map](#) ([ask_sdk_model.interfaces.viewport.experience.Experience](#) ([ask_sdk_model.services.endpoint_enumeration.error.Error](#)
[attribute](#)), 228
[attribute_map](#) ([ask_sdk_model.interfaces.viewport.size_continuous_viewport_size.ContinuousViewportSize](#) ([ask_sdk_model.services.gadget_controller.animation.Animation](#)
[attribute](#)), 224
[attribute_map](#) ([ask_sdk_model.interfaces.viewport.size_discrete_viewport_size.DiscreteViewportSize](#) ([ask_sdk_model.services.gadget_controller.light_animation.LightAnimation](#)
[attribute](#)), 224
[attribute_map](#) ([ask_sdk_model.interfaces.viewport.size_viewport_size.ViewportSize](#) ([ask_sdk_model.services.gadget_controller.set_light_palette.SetLightPalette](#)
[attribute](#)), 225
[attribute_map](#) ([ask_sdk_model.interfaces.viewport.type_viewport_type.ViewportType](#) ([ask_sdk_model.services.game_engine.deviation_recognition.DeviationRecognition](#)
[attribute](#)), 230
[attribute_map](#) ([ask_sdk_model.interfaces.viewport.viewport_state.ViewportState](#) ([ask_sdk_model.services.game_engine.event.Event](#)
[attribute](#)), 232
[attribute_map](#) ([ask_sdk_model.interfaces.viewport.viewport_state_video.Video](#) ([ask_sdk_model.services.game_engine.input_event.InputEvent](#)
[attribute](#)), 232
[attribute_map](#) ([ask_sdk_model.interfaces.viewport.viewport_video.Video](#) ([ask_sdk_model.services.game_engine.input_handler_event.InputHandlerEvent](#)
[attribute](#)), 232
[attribute_map](#) ([ask_sdk_model.launch_request.LaunchRequest](#) ([ask_sdk_model.services.game_engine.pattern.Pattern](#)
[attribute](#)), 319
[attribute_map](#) ([ask_sdk_model.permissions.Permissions](#) ([ask_sdk_model.services.game_engine.pattern_recognition.PatternRecognition](#)
[attribute](#)), 320
[attribute_map](#) ([ask_sdk_model.person.Person](#) ([ask_sdk_model.services.game_engine.progress_recognition.ProgressRecognition](#)
[attribute](#)), 320
[attribute_map](#) ([ask_sdk_model.request.Request](#) ([ask_sdk_model.services.game_engine.recognizer.Recognizer](#)
[attribute](#)), 323
[attribute_map](#) ([ask_sdk_model.request_envelope.RequestEnvelope](#) ([ask_sdk_model.services.list_management.alex_list.AlexaList](#)
[attribute](#)), 324
[attribute_map](#) ([ask_sdk_model.response.Response](#) ([ask_sdk_model.services.list_management.alex_list_item.AlexaListItem](#)
[attribute](#)), 325
[attribute_map](#) ([ask_sdk_model.response_envelope.ResponseEnvelope](#) ([ask_sdk_model.services.list_management.alex_list_management.AlexaListManagement](#)
[attribute](#)), 325
[attribute_map](#) ([ask_sdk_model.scope.Scope](#) ([ask_sdk_model.services.list_management.alex_lists.AlexaLists](#)

attribute), 438
 attribute_map(*ask_smap_i_model.v1.skill.history.intent_requests.IntentRequest.attribute*), 439
 attribute_map(*ask_smap_i_model.v1.skill.history.slot.Slot.attribute*), 441
 attribute_map(*ask_smap_i_model.v1.skill.image_attributes.ImageAttributes.attribute*), 538
 attribute_map(*ask_smap_i_model.v1.skill.image_dimensions.ImageDimensions.attribute*), 539
 attribute_map(*ask_smap_i_model.v1.skill.image_size.ImageSize.attribute*), 539
 attribute_map(*ask_smap_i_model.v1.skill.import_response.ImportResponse.attribute*), 540
 attribute_map(*ask_smap_i_model.v1.skill.import_response_skill.ImportResponseSkill.attribute*), 541
 attribute_map(*ask_smap_i_model.v1.skill.instance.Instance.attribute*), 541
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_catalog_catalog_skill_in_progress.Output.is_not_in_catalog*), 442
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_catalog_catalog_skill_in_progress.Output.is_in_catalog*), 443
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_catalog_catalog_skill_in_progress.Output.prompt*), 443
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_catalog_catalog_skill_in_progress.Output.prompt_id*), 444
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_catalog_catalog_skill_in_progress.Output.prompt_text*), 444
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_catalog_catalog_skill_in_progress.Output.status*), 445
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_catalog_catalog_skill_in_progress.Output.slot_definition*), 445
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_catalog_catalog_skill_in_progress.Output.slot_type*), 446
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_catalog_catalog_skill_in_progress.Output.slot_value*), 446
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_catalog_catalog_skill_in_progress.Output.value_category*), 447
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_catalog_catalog_skill_in_progress.Output.value_supplement*), 447
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_catalog_catalog_skill_in_progress.Output.version*), 448
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_catalog_catalog_skill_in_progress.Output.version_code*), 448
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_catalog_catalog_skill_in_progress.Output.version_id*), 448
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_dialog_dialog_skill_in_progress.Output.version*), 454
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_dialog_dialog_skill_in_progress.Output.version_id*), 454
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_dialog_dialog_skill_in_progress.Output.version_increment*), 455
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_dialog_dialog_skill_in_progress.Output.version_list*), 455
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_dialog_dialog_skill_in_progress.Output.version_list_increment*), 455
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_dialog_dialog_skill_in_progress.Output.version_list_increment_increment*), 456
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_dialog_dialog_skill_in_progress.Output.version_list_increment_increment_increment*), 457
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_dialog_dialog_skill_in_progress.Output.version_list_increment_increment_increment_increment*), 457
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_dialog_dialog_skill_in_progress.Output.version_list_increment_increment_increment_increment_increment*), 457
 attribute_map(*ask_smap_i_model.v1.skill.interaction_model_dialog_dialog_skill_in_progress.Output.version_list_increment_increment_increment_increment_increment_increment*), 458

[attribute](#), 452
[attribute_map\(ask_smapi_model.v1.skill.list_skill_response.ListSkillResponse\)](#), 499
[attribute_map\(ask_smapi_model.v1.skill.manifest.localized_music_info.LocalizedMusicInfo\)](#), 500
[attribute_map\(ask_smapi_model.v1.skill.manifest.alexat_for_business_api.AlexaForBusinessApi\)](#), 501
[attribute_map\(ask_smapi_model.v1.skill.manifest.alexat_for_business_api.AlexaForBusinessSkillManifest\)](#), 501
[attribute_map\(ask_smapi_model.v1.skill.manifest.alexat_for_business_api.AlexaForBusinessSkillManifestMusicAlias\)](#), 501
[attribute_map\(ask_smapi_model.v1.skill.manifest.alexat_for_business_api.AlexaForBusinessSkillManifestMusicAliasApis\)](#), 502
[attribute_map\(ask_smapi_model.v1.skill.manifest.audio_interface.AudioInterface\)](#), 502
[attribute_map\(ask_smapi_model.v1.skill.manifest.music_capability.MusicCapability\)](#), 502
[attribute_map\(ask_smapi_model.v1.skill.manifest.connection.Connection\)](#), 503
[attribute_map\(ask_smapi_model.v1.skill.manifest.music_content_type.MusicContentType\)](#), 503
[attribute_map\(ask_smapi_model.v1.skill.manifest.connection_payload.ConnectionPayload\)](#), 503
[attribute_map\(ask_smapi_model.v1.skill.manifest.music_feature.MusicFeature\)](#), 503
[attribute_map\(ask_smapi_model.v1.skill.manifest.custom_api.CustomApi\)](#), 504
[attribute_map\(ask_smapi_model.v1.skill.manifest.music_interfaces.MusicInterfaces\)](#), 504
[attribute_map\(ask_smapi_model.v1.skill.manifest.custom_connections.CustomConnections\)](#), 504
[attribute_map\(ask_smapi_model.v1.skill.manifest.music_request.MusicRequest\)](#), 504
[attribute_map\(ask_smapi_model.v1.skill.manifest.custom_interface.CustomInterface\)](#), 504
[attribute_map\(ask_smapi_model.v1.skill.manifest.music_wordmark.MusicWordmark\)](#), 504
[attribute_map\(ask_smapi_model.v1.skill.manifest.display_interface.DisplayInterface\)](#), 505
[attribute_map\(ask_smapi_model.v1.skill.manifest.permission_items.PermissionItems\)](#), 505
[attribute_map\(ask_smapi_model.v1.skill.manifest.event_name.EventName\)](#), 506
[attribute_map\(ask_smapi_model.v1.skill.manifest.region.Region\)](#), 506
[attribute_map\(ask_smapi_model.v1.skill.manifest.event_publications.EventPublications\)](#), 507
[attribute_map\(ask_smapi_model.v1.skill.manifest.request.Request\)](#), 507
[attribute_map\(ask_smapi_model.v1.skill.manifest.flash_briefing_topics.FlashBriefingTopics\)](#), 508
[attribute_map\(ask_smapi_model.v1.skill.manifest.skill_manifest.SkillManifest\)](#), 508
[attribute_map\(ask_smapi_model.v1.skill.manifest.gadget_controller_interface.GadgetControllerInterface\)](#), 509
[attribute_map\(ask_smapi_model.v1.skill.manifest.skill_manifest_apis.SkillManifestApis\)](#), 509
[attribute_map\(ask_smapi_model.v1.skill.manifest.game_engine_interface.GameEngineInterface\)](#), 509
[attribute_map\(ask_smapi_model.v1.skill.manifest.skill_manifest_custom_apis.SkillManifestCustomApis\)](#), 509
[attribute_map\(ask_smapi_model.v1.skill.manifest.health_status.HealthStatus\)](#), 510
[attribute_map\(ask_smapi_model.v1.skill.manifest.skill_manifest_endpoints.SkillManifestEndpoints\)](#), 510
[attribute_map\(ask_smapi_model.v1.skill.manifest.health_api.HealthApi\)](#), 510
[attribute_map\(ask_smapi_model.v1.skill.manifest.skill_manifest_events.SkillManifestEvents\)](#), 510
[attribute_map\(ask_smapi_model.v1.skill.manifest.health_interface.HealthInterface\)](#), 511
[attribute_map\(ask_smapi_model.v1.skill.manifest.skill_manifest_event_publications.SkillManifestEventPublications\)](#), 511
[attribute_map\(ask_smapi_model.v1.skill.manifest.health_request.HealthRequest\)](#), 511
[attribute_map\(ask_smapi_model.v1.skill.manifest.skill_manifest_localizations.SkillManifestLocalizations\)](#), 511
[attribute_map\(ask_smapi_model.v1.skill.manifest.house_hold_list.HouseHoldList\)](#), 512
[attribute_map\(ask_smapi_model.v1.skill.manifest.skill_manifest_localizations.SkillManifestLocalizations\)](#), 512
[attribute_map\(ask_smapi_model.v1.skill.manifest.interface.Interface\)](#), 513
[attribute_map\(ask_smapi_model.v1.skill.manifest.skill_manifest_privacy.SkillManifestPrivacy\)](#), 513
[attribute_map\(ask_smapi_model.v1.skill.manifest.lambda_endpoint.LambdaEndpoint\)](#), 515
[attribute_map\(ask_smapi_model.v1.skill.manifest.skill_manifest_publications.SkillManifestPublications\)](#), 515
[attribute_map\(ask_smapi_model.v1.skill.manifest.lambda_region.LambdaRegion\)](#), 515
[attribute_map\(ask_smapi_model.v1.skill.manifest.smart_home_apis.SmartHomeApis\)](#), 515
[attribute_map\(ask_smapi_model.v1.skill.manifest.localized_flash_briefing_info.LocalizedFlashBriefingInfo\)](#), 516
[attribute_map\(ask_smapi_model.v1.skill.manifest.up_channel_items.UpChannelItems\)](#), 516
[attribute_map\(ask_smapi_model.v1.skill.manifest.localized_flash_briefing_info.LocalizedFlashBriefingInfoApis\)](#), 517
[attribute_map\(ask_smapi_model.v1.skill.manifest.video_api.VideoApi\)](#), 517
[attribute_map\(ask_smapi_model.v1.skill.manifest.localized_health_info.LocalizedHealthInfo\)](#), 517
[attribute_map\(ask_smapi_model.v1.skill.manifest.video_api_locale.VideoApiLocale\)](#), 517

[attribute\), 518](#)
[attribute_map\(ask_smapi_model.v1.skill.manifest.video_api_interface.VideoApiInterfaceAttribute\), 518](#)
[attribute_map\(ask_smapi_model.v1.skill.manifest.video_catalog_info.VideoCatalogInfoAttribute\), 518](#)
[attribute_map\(ask_smapi_model.v1.skill.manifest.video_country_info.VideoCountryInfoAttribute\), 519](#)
[attribute_map\(ask_smapi_model.v1.skill.manifest.video_region_info.VideoRegionInfoAttribute\), 519](#)
[attribute_map\(ask_smapi_model.v1.skill.manifest.viewport_specification.ViewportSpecificationAttribute\), 520](#)
[attribute_map\(ask_smapi_model.v1.skill.metrics.get_metric_data_response.GetMetricDataResponseAttribute\), 521](#)
[attribute_map\(ask_smapi_model.v1.skill.private.list_private_distribution_packages\(ListPrivateDistributionPackagesAttribute\), 524](#)
[attribute_map\(ask_smapi_model.v1.skill.private.private_distribution_package.PrivateDistributionPackageAttribute\), 524](#)
[attribute_map\(ask_smapi_model.v1.skill.regional_ssl_certificate.RegionalSSLCertificateAttribute\), 543](#)
[attribute_map\(ask_smapi_model.v1.skill.resource_import_status.ResourceImportStatusAttribute\), 544](#)
[attribute_map\(ask_smapi_model.v1.skill.simulations.device_execution_info\(DeviceExecutionInfoAttribute\), 525](#)
[attribute_map\(ask_smapi_model.v1.skill.simulations.device_response\(DeviceResponseAttribute\), 525](#)
[attribute_map\(ask_smapi_model.v1.skill.simulations.device_response_map\(DeviceResponseMapAttribute\), 526](#)
[attribute_map\(ask_smapi_model.v1.skill.simulations.device.DeviceEventManager \(class in ask_sdk_core.attributes_manager\), 526](#)
[attribute_map\(ask_smapi_model.v1.skill.simulations.input.InputManagerException, 526](#)
[attribute_map\(ask_smapi_model.v1.skill.simulations.invocation_archives.InvocationRequestAttribute\), 527](#)
[attribute_map\(ask_smapi_model.v1.skill.simulations.invocation_archives.InvocationResponseAttribute\), 527](#)
[attribute_map\(ask_smapi_model.v1.skill.simulations.metrics.MetricAttribute\), 528](#)
[attribute_map\(ask_smapi_model.v1.skill.simulations.session.SessionAttribute\), 528](#)
[attribute_map\(ask_smapi_model.v1.skill.simulations.simulation_request.SimulationRequestAttribute\), 529](#)
[attribute_map\(ask_smapi_model.v1.skill.simulations.simulation_response.SimulationResponseAttribute\), 530](#)
[attribute_map\(ask_smapi_model.v1.skill.skill_interaction_model.AudioVsSkillModelAttribute\), 545](#)
[attribute_map\(ask_smapi_model.v1.skill.skill_status.SkillStatusAttribute\), 546](#)
[attribute_map\(ask_smapi_model.v1.skill.skill_summary.SkillSummaryAttribute\), 546](#)
[attribute_map\(ask_smapi_model.v1.skill.ssl_certificate_payload.SSLCertificatePayloadAttribute\), 547](#)
[attribute_map\(ask_smapi_model.v1.skill.standardized_error.StandardizedError \(class in](#)

`ask_sdk_model.interfaces.audioplayer.audio_item`),
 162 `(ask_sdk_model.interfaces.amazonpay.model.request.payment_action`
`ask_sdk_model.interfaces.audioplayer.audio_item_metadata` `(ask_sdk_model.interfaces.amazonpay.model.v1.payment_action`
 163 `attribute)`, 151

`AudioPlayer_PlaybackFailed` `AuthorizeAttributes` `(class in`
`(ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType`
`attribute)`, 484 130 `ask_sdk_model.interfaces.amazonpay.model.request.authorize_at`

`AudioPlayer_PlaybackFinished` `AuthorizeAttributes` `(class in`
`(ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType``ask_sdk_model.interfaces.amazonpay.model.v1.authorize_attri`
`attribute)`, 484 146

`AudioPlayer_PlaybackNearlyFinished` `AUTO` `(ask_sdk_model.interfaces.viewport.mode.Mode`
`(ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType`
`attribute)`, 485 229

`AudioPlayer_PlaybackStarted` `AUTO_ENTITLED` `(ask_sdk_model.services.monetization.entitlement_reas`
`(ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType`
`attribute)`, 485 `ATTRIBUTE_TYPING` `(ask_smapi_model.v1.skill.publication_method.Publ`
`attribute)`, 542

`AudioPlayer_PlaybackStopped` `AutomotiveState` `(class in`
`(ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType`
`attribute)`, 485 172 `ask_sdk_model.interfaces.automotive.automotive_state)`,

`AudioPlayerInterface` `(class in` `AutoPageCommand` `(class in`
`ask_sdk_model.interfaces.audioplayer.audio_player_interfa`
 163 83 `ask_sdk_model.interfaces.alexapresentation.apl.auto_page_com`

`AudioPlayerState` `(class in` `AutoPageCommand` `(class in`
`ask_sdk_model.interfaces.audioplayer.audio_player_state)`, `ask_sdk_model.interfaces.alexapresentation.apl.auto_page_com`
 164 113

`AudioTrack` `(class in` `AVAILABLE` `(ask_smapi_model.v1.catalog.upload.file_upload_status.File`
`ask_sdk_model.interfaces.alexapresentation.apl.audio_track`
 83 `attribute)`, 382
`avs_distributed_audio`

`AUTH_CODE` `(ask_smapi_model.v1.skill.account_linking.account_linking_synapiconduLinkSkillType`
`attribute)`, 413 `ask_sdk_model.interfaces.amazonpay.model.request.payment_action`
`attribute)`, 506

`AuthenticationConfiguration` `(class in` `AW` `(ask_smapi_model.v1.isp.distribution_countries.DistributionCountries`
`ask_sdk_model.services.authentication_configuration)`, `attribute)`, 391
 300

`AuthenticationConfiguration` `(class in` `attribute)`, 475
`ask_sdk_model_runtime.authentication_configuration` `(ask_smapi_model.v1.isp.distribution_countries.DistributionC`
 60 `attribute)`, 391

`AuthorizationDetails` `(class in` `AX` `(ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC`
`ask_sdk_model.interfaces.amazonpay.model.response.authorization_details)`,
 138 `attribute)`, 475

`AuthorizationDetails` `(class in` `attribute)`, 391
`ask_sdk_model.interfaces.amazonpay.model.v1.authorization_details` `(ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC`
 144 `attribute)`, 475

`AuthorizationStatus` `(class in` `attribute)`, 475
`ask_sdk_model.interfaces.amazonpay.model.response.authorization_status)`,
 139

`AuthorizationStatus` `(class in` `attribute)`, 391
`ask_sdk_model.interfaces.amazonpay.model.v1.authorization_status` `(ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC`
 145 `attribute)`, 475

`Authorize` `(ask_sdk_model.interfaces.amazonpay.model.request.payment_action.PaymentAction` `(class in`
`attribute)`, 134 `ask_sdk_model.interfaces.display.back_button_behavior)`,

`Authorize` `(ask_sdk_model.interfaces.amazonpay.model.v1.payment_action.PaymentAction`
`attribute)`, 151

`AuthorizeAndCapture` `BadRequestError` `(class in`
`ask_smapi_model.v1.bad_request_error)`,

556
BaseAmazonPayEntity (class in BillingAgreementDetails (class in
ask_sdk_model.interfaces.amazonpay.model.request.base_amazonpay_entity),
131
BaseEntity (class in BillingAgreementStatus (class in
ask_sdk_model.interfaces.connections.entities.base_entity),ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement
173
BaseRequest (class in BillingAgreementType (class in
ask_sdk_model.interfaces.connections.requests.base_request),ask_sdk_model.interfaces.amazonpay.model.request.billing_agreem
175
BaseServiceClient (class in BillingAgreementType (class in
ask_sdk_model.services.base_service_client),ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement
300
BaseServiceClient (class in BJ (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
ask_sdk_model_runtime.base_service_client), attribute), 391
61
BB (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
attribute), 475
BB (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
attribute), 475
BD (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
attribute), 475
BD (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
attribute), 475
BE (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
attribute), 391
BE (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
attribute), 475
BetaTest (class in ask_smapi_model.v1.skill.beta_test.beta_test), attribute), 391
421
BF (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
attribute), 475
BF (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
attribute), 475
BG (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
attribute), 475
BG (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
attribute), 475
BH (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
attribute), 391
BH (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
attribute), 475
BI (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
attribute), 391
BI (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
attribute), 475
BillingAgreementAttributes (class in BillingAgreementAttributes (class in
ask_sdk_model.interfaces.amazonpay.model.request.billing_agreement_attributes), (class in
132 ask_sdk_model.interfaces.display.body_template7),
BillingAgreementAttributes (class in BillingAgreementAttributes (class in
ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_attributes), (class in
147 ask_sdk_model.v1.skill.validation_data_types.ValidationDataTypes
attribute), 550
BillingAgreementDetails (class in BR (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
ask_sdk_model.interfaces.amazonpay.model.response.billing_agreement_details),
191

BR (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 475
ask_sdk_runtime.dispatch_components.request_components (class in *ask_sdk_runtime.dispatch_components.request_components*), 3
 BS (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 391
 BS (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 475
 BS (*ask_smapi_model.v1.catalog.upload.ingestion_status.IngestionStatus* attribute), 384
 BT (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 391
 BT (*ask_smapi_model.v1.skill.certification.certification_status.CertificationStatus* attribute), 424
 BT (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 475
 BT (*ask_sdk_model.interfaces.audioplayer.activity.PlayerActivity* class in *ask_sdk_model.interfaces.audioplayer.activity*), 65
 BUFFER_UNDERRUN (*ask_sdk_model.interfaces.audioplayer.activity.PlayerActivity* class in *ask_sdk_model.interfaces.audioplayer.activity*), 171
 BuildDetails (class in *ask_smapi_model.v1.skill.build_details*), 535
 BuildStep (class in *ask_smapi_model.v1.skill.build_step*), 535
 BuildStepName (class in *ask_smapi_model.v1.skill.build_step_name*), 536
 BUSINESS (*ask_smapi_model.v1.skill.manifest.flash_briefing_genre.FlashBriefingGenre* attribute), 492
 buttonDown (*ask_sdk_model.services.gadget_controller.trigger_event_type.TriggerEventType* class in *ask_sdk_model.services.gadget_controller.trigger_event_type*), 243
 buttonUp (*ask_sdk_model.services.gadget_controller.trigger_event_type.TriggerEventType* class in *ask_sdk_model.services.gadget_controller.trigger_event_type*), 243
 BV (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 391
 BV (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 475
 BW (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 391
 BW (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 475
 BY (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 391
 BY (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 475
 BZ (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 391
 BZ (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 475
C
 CA (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 391
 CA (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 475
 can_handle () (*ask_sdk_core.dispatch_components.exception_components.AbstractExceptionHandler* method), 17
 can_handle () (*ask_sdk_core.dispatch_components.request_components.AbstractRequestHandler* method), 16
 can_handle () (*ask_sdk_runtime.dispatch_components.exception_components.AbstractExceptionHandler* method), 5
 Card (class in *ask_sdk_model.ui.card*), 306
 CardData (class in *ask_sdk_model.interfaces.audioplayer.caption_data*), 164
 CardRenderer (class in *ask_sdk_model.interfaces.audioplayer.caption_data*), 164
 CardRenderer_DisplayContentFinished (class in *ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType*), 485
 CardRenderer_DisplayContentStarted (class in *ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType*), 485
 CardRenderer_ReadContentFinished (class in *ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType*), 485
 CardRenderer_ReadContentStarted (class in *ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType*), 485
 CatalogDefinitionOutput (class in *ask_smapi_model.v1.skill.interaction_model.catalog.catalog_definition_output*), 442
 CatalogEntity (class in *ask_smapi_model.v1.skill.interaction_model.catalog.catalog_entity*), 443
 CatalogInput (class in *ask_smapi_model.v1.skill.interaction_model.catalog.catalog_input*), 443
 CatalogItem (class in *ask_smapi_model.v1.skill.interaction_model.catalog.catalog_item*), 443

`ask_smapi_model.v1.skill.interaction_model.catalog.catalog_item` (class in `ask_smapi_model.v1.isp.status.Status` attribute), 407

`ask_smapi_model.v1.skill.interaction_model.catalog.catalog_item` (class in `ask_smapi_model.v1.isp.status.Status` attribute), 444

`CatalogResponse` (class in `Certification(ask_smapi_model.v1.skill.history.publication_status.PublicationStatus)` attribute), 441

`ask_smapi_model.v1.skill.interaction_model.catalog.catalog_item` (class in `CertificationResponse` attribute), 444

`CatalogStatus` (class in `ask_smapi_model.v1.skill.certification.certification_response`), 443

`ask_smapi_model.v1.skill.interaction_model.catalog.catalog_item` (class in `CertificationResult` attribute), 445

`CatalogStatusType` (class in `ask_smapi_model.v1.skill.certification.certification_result`), 443

`ask_smapi_model.v1.skill.interaction_model.catalog.catalog_item` (class in `CertificationStatus` attribute), 445

`CatalogUpdate` (class in `ask_smapi_model.v1.skill.certification.certification_status`), 444

`ask_smapi_model.v1.skill.interaction_model.version.catalog_item` (class in `CertificationSummary` attribute), 448

`CatalogUploadBase` (class in `ask_smapi_model.v1.skill.certification.certification_summary`), 424

`ask_smapi_model.v1.catalog.upload.catalog_upload_base` (class in `certified(ask_smapi_model.v1.stage_v2_type.StageV2Type)` attribute), 382

`CatalogValues` (class in `ask_smapi_model.v1.isp.distribution_countries.DistributionCountries` attribute), 557

`ask_smapi_model.v1.skill.interaction_model.version.catalog_item` (class in `ask_smapi_model.v1.isp.distribution_countries.DistributionCountries` attribute), 448

`CatalogValueSupplier` (class in `CF(ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries)` attribute), 475

`ask_smapi_model.v1.skill.interaction_model.catalog_value_supplier` (class in `CG(ask_smapi_model.v1.isp.distribution_countries.DistributionCountries)` attribute), 453

`CatalogVersionData` (class in `ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries` attribute), 391

`ask_smapi_model.v1.skill.interaction_model.version.catalog_item` (class in `ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries` attribute), 449

`Cause` (class in `ask_sdk_model.cause`), 311

`CH` (`ask_smapi_model.v1.isp.distribution_countries.DistributionCountries` attribute), 391

`CC` (`ask_smapi_model.v1.isp.distribution_countries.DistributionCountries` attribute), 391

`CH` (`ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries` attribute), 475

`CC` (`ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries` attribute), 475

`CHARACTER_ENCODING` (in `module` `ask_sdk_webservice_support.verifier_constants`), 43

`CD` (`ask_smapi_model.v1.isp.distribution_countries.DistributionCountries` attribute), 391

`CD` (`ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries` attribute), 475

`ask_sdk_model.interfaces.viewport.aplt.character_format` (class in `ask_sdk_model.interfaces.viewport.aplt.character_format`), 207

`CELSIUS` (`ask_sdk_model.services.ups.temperature_unit.TemperatureUnit` attribute), 296

`ChargeAmazonPay` (class in `ask_sdk_model.interfaces.amazonpay.v1.charge_amazon_pay`), 159

`center` (`ask_sdk_model.interfaces.alexa.presentation.apl.align.Align` attribute), 80

`CERT_CHAIN_DOMAIN` (in `module` `ask_sdk_webservice_support.verifier_constants`), 43

`ChargeAmazonPayRequest` (class in `ask_sdk_model.interfaces.amazonpay.request.charge_amazon_pay_request`), 155

`CERT_CHAIN_URL_HOSTNAME` (in `module` `ask_sdk_webservice_support.verifier_constants`), 43

`ChargeAmazonPayResult` (class in `ask_sdk_model.interfaces.amazonpay.response.charge_amazon_pay_response`), 157

`CERT_CHAIN_URL_PORT` (in `module` `ask_sdk_webservice_support.verifier_constants`), 43

`ChargeAmazonPayResult` (class in `ask_sdk_model.interfaces.amazonpay.v1.charge_amazon_pay_request`), 160

`CERT_CHAIN_URL_PROTOCOL` (in `module` `ask_sdk_webservice_support.verifier_constants`), 43

`checked` (`ask_sdk_model.interfaces.alexa.presentation.apl.component_state` attribute), 87

`CERT_CHAIN_URL_STARTPATH` (in `module` `ask_sdk_webservice_support.verifier_constants`), 43

`CI` (`ask_smapi_model.v1.isp.distribution_countries.DistributionCountries` attribute), 391

`CI` (`ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries` attribute), 475

CK (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 391
 CK (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 475
 CK (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 475
 CL (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 392
 CL (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 475
 CLEAR (*ask_sdk_model.er.dynamic.update_behavior.UpdateBehavior* attribute), 72
 CLEAR (*ask_sdk_model.er.dynamic.update_behavior.UpdateBehavior* attribute), 72
 CLEAR_ALL (*ask_sdk_model.interfaces.audioplayer.clear_behavior.ClearBehavior* attribute), 165
 CLEAR_ENQUEUED (*ask_sdk_model.interfaces.audioplayer.clear_behavior.ClearBehavior* attribute), 165
 CLEAR_ENQUEUED (*ask_sdk_model.interfaces.audioplayer.clear_behavior.ClearBehavior* attribute), 165
 ClearBehavior (class in *ask_sdk_model.interfaces.audioplayer.clear_behavior* attribute), 165
 ClearBehavior (class in *ask_sdk_model.interfaces.audioplayer.clear_behavior* attribute), 165
 ClearFocusCommand (class in *ask_sdk_model.interfaces.alexapresentation.apl.clear_focus_command* attribute), 84
 ClearFocusCommand (class in *ask_sdk_model.interfaces.alexapresentation.apl.clear_focus_command* attribute), 84
 ClearQueueDirective (class in *ask_sdk_model.interfaces.audioplayer.clear_queue_directive* attribute), 165
 ClearQueueDirective (class in *ask_sdk_model.interfaces.audioplayer.clear_queue_directive* attribute), 165
 client () (*ask_smapi_sdk.smapi_builder.CustomSmapiClientBuilder* method), 54
 client () (*ask_smapi_sdk.smapi_builder.SmapiClientBuilder* method), 53
 client () (*ask_smapi_sdk.smapi_builder.StandardSmapiClientBuilder* method), 53
 CLIENT_CREDENTIALS_GRANT_TYPE (class in *ask_sdk_model.services.lwa.lwa_client.LwaClient* attribute), 265
 CLIENT_CREDENTIALS_GRANT_TYPE (class in *ask_sdk_model.services.lwa.lwa_client.LwaClient* attribute), 265
 CLIENT_CREDENTIALS_GRANT_TYPE (class in *ask_sdk_model_runtime.lwa.lwa_client.LwaClient* attribute), 57
 clone_locale_v1 () (*ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient* method), 335
 Closed (*ask_sdk_model.interfaces.amazonpay.model.response.state.State* attribute), 143
 Closed (*ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_state.State* attribute), 149
 Closed (*ask_sdk_model.interfaces.amazonpay.model.v1.state.State* attribute), 154
 CM (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 392
 CM (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 392
 CM (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 475
 CM (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 475
 CN (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 392
 CN (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 392
 CN (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 475
 CN (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 475
 CO (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 392

ComponentVisibleOnScreenTags (class in Context (class in ask_sdk_model.context), 312
ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_tags), (class in
92 ask_sdk_model.interfaces.viewport.size.continuous_viewport_size)

ComponentVisibleOnScreenViewportTag 224
(class in ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_viewport_tag), in
93 ask_sdk_model.interfaces.alexa.presentation.apl.control_media_controls)

Confidence (class in 94
ask_smapi_model.v1.skill.history.confidence), Coordinate (class in
435 ask_sdk_model.interfaces.geolocation.coordinate),

ConfidenceBin (class in 207
ask_smapi_model.v1.skill.history.confidence_bin), CR (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
436 attribute), 392

Configuration (class in CR (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
ask_sdk_model.interfaces.alexa.presentation.html.configuration_attribute), 476
125 attribute), 534

ConfirmationStatusType (class in 534
ask_smapi_model.v1.skill.evaluations.confirmation_status_type), (ask_smapi_model.v1.skill.manifest.request_name.RequestName
428 attribute), 507

CONFIRMED (ask_sdk_model.intent_confirmation_status.IntentConfirmationStatus, ask_sdk.standard.StandardSkillBuilder
attribute), 317 method), 40

CONFIRMED (ask_sdk_model.slot_confirmation_status.SlotConfirmationStatus, ask_sdk_core.skill_builder.CustomSkillBuilder
attribute), 330 method), 24

CONFIRMED (ask_smapi_model.v1.skill.evaluations.confirmation_status_type.IntentConfirmationStatusType, SkillBuilder
attribute), 428 method), 21

ConfirmIntentDirective (class in create () (ask_sdk_runtime.skill_builder.AbstractSkillBuilder
ask_sdk_model.dialog.confirm_intent_directive), method), 13
69 create_asr_annotation_set_v1 ()

ConfirmSlotDirective (class in (ask_smapi_model.services.skill_management.skill_management.
ask_sdk_model.dialog.confirm_slot_directive), method), 335
69 create_asr_evaluation_v1 ()

ConnectionCompleted (class in (ask_smapi_model.services.skill_management.skill_management.
ask_sdk_model.connection_completed), 312 method), 336

Connections (class in create_beta_test_v1 ()
ask_smapi_model.v1.skill.manifest.connections), (ask_smapi_model.services.skill_management.skill_management.
470 method), 336

ConnectionsPayload (class in create_catalog_upload_v1 ()
ask_smapi_model.v1.skill.manifest.connections_payload), (ask_smapi_model.services.skill_management.skill_management.
471 method), 336

ConnectionsRequest (class in create_catalog_v0 ()
ask_sdk_model.interfaces.connections.connections_request), ask_smapi_model.services.skill_management.skill_management.
181 method), 336

ConnectionsResponse (class in create_content_upload_v0 ()
ask_sdk_model.interfaces.connections.connections_response), ask_smapi_model.services.skill_management.skill_management.
182 method), 337

ConnectionsStatus (class in create_export_request_for_skill_v1 ()
ask_sdk_model.interfaces.connections.connections_status), (ask_smapi_model.services.skill_management.skill_management.
182 method), 337

CONSUMABLE (ask_sdk_model.services.monetization.product_type.ProductType, ProductType_model_catalog_v1 ()
attribute), 271 (ask_smapi_model.services.skill_management.skill_management.
method), 337

CONSUMABLE (ask_smapi_model.v1.isp.product_type.ProductType, ProductType
attribute), 405 create_interaction_model_catalog_version_v1 ()

ContentUploadFileSummary (class in (ask_smapi_model.services.skill_management.skill_management.
ask_smapi_model.v1.catalog.upload.content_upload_file_summary), 337
382 create_interaction_model_slot_type_v1 ()

(ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient method), 338

create_interaction_model_slot_type_version_v1() ask_sdk_model.services.proactive_events.create_proactive_event_request (class in ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient method), 338

create_isp_for_vendor_v1() ask_smapi_model.v1.skill.create_skill_request, (ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient method), 338

create_list() (ask_sdk_model.services.list_management.list_management_service_client.ListManagementServiceClient method), 258

create_list_item() CreateSkillWithPackageRequest (class in ask_sdk_model.services.list_management.list_management_service_client.ListManagementServiceClient method), 258

create_nlu_annotation_set_v1() Currency (class in ask_smapi_model.v1.isp.currency), (ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient method), 338

create_nlu_evaluations_v1() ask_sdk_model.interfaces.viewport.apl.current_configuration, (ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient method), 339

create_proactive_event() ask_sdk_model.interfaces.audioplayer.current_playback_state, (ask_sdk_model.services.proactive_events.proactive_events_service_client.ProactiveEventsServiceClient method), 276

create_reminder() custom(ask_smapi_model.v1.skill.metrics.skill_type.SkillType attribute), 523 (ask_sdk_model.services.reminder_management.reminder_management_service_client.ReminderManagementServiceClient method), 286

create_skill_for_vendor_v1() CustomApis (class in ask_smapi_model.v1.skill_manifest.event_name_type.EventNameType method), 339

create_skill_package_v1() CustomConnections (class in ask_smapi_model.v1.skill_manifest.event_name_type.EventNameType method), 339

create_subscriber_for_development_events CustomerInitiatedTransaction (ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient method), 340

create_subscription_for_development_events CustomerInitiatedTransaction (ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient method), 340

create_upload_url_v1() CustomInterface (class in ask_smapi_model.v1.skill_manifest.event_name_type.EventNameType method), 340

CreateContentUploadUrlRequest (class in CustomInterfaceController_EventsReceived ask_smapi_model.v1.catalog.create_content_upload_url_request), 387

CreateContentUploadUrlResponse (class in CustomInterfaceController_Expired ask_smapi_model.v1.catalog.create_content_upload_url_response), 387

CreateInSkillProductRequest (class in CustomProductPrompts (class in ask_smapi_model.v1.isp.create_in_skill_product_request), ask_smapi_model.v1.isp.custom_product_prompts), 389

CreateListItemRequest (class in CustomSkill (class in ask_sdk_core.skill), 21 ask_sdk_model.services.list_management.create_list_item_request_builder (class in ask_sdk_core.skill_builder), 23 252

CreateListRequest (class in CustomSmapiClientBuilder (class in ask_sdk_model.services.list_management.create_list_request), ask_smapi_sdk.smapi_builder), 54

CV (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 392
 CV (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 476
 CX (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 392
 CX (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 476
 CY (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 392
 CY (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 476
 CZ (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 392
 CZ (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 476

D

DAILY (*ask_sdk_model.services.reminder_management.recurrence_frequency.RecurrenceFrequency* attribute), 283
 DAILY (*ask_smapi_model.v1.skill.manifest.flash_briefing_update_frequency.FlashBriefingUpdateFrequency* attribute), 492
 DE (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 392
 DE (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 476
 de_DE (*ask_smapi_model.v1.skill.history.intent_request_locales.IntentRequestLocales* attribute), 439
 de_DE (*ask_smapi_model.v1.skill.history.locale_in_query.LocaleInQuery* attribute), 440
 Declined (*ask_sdk_model.interfaces.amazonpay.model.response.state.State* attribute), 143
 Declined (*ask_sdk_model.interfaces.amazonpay.model.v1.state.State* attribute), 154
 DECLINED (*ask_sdk_model.interfaces.monetization.v1.purchase_result.PurchaseResult* attribute), 212
 DEFAULT (*ask_smapi_model.v1.skill.simulations.session_mode.SessionMode* attribute), 528
 DEFAULT_LWA_ENDPOINT (*ask_sdk_model.services.lwa.lwa_client.LwaClient* attribute), 265
 DEFAULT_LWA_ENDPOINT (*ask_sdk_model_runtime.lwa.lwa_client.LwaClient* attribute), 57
 DEFAULT_PATH_PREFIX (*ask_sdk_s3.adapter.S3Adapter* attribute), 51
 DEFAULT_TIMESTAMP_TOLERANCE_IN_MILLIS (in module *ask_sdk_webservice_support.verifier_constants*), 43
 DefaultApiClient (class in *ask_sdk_core.api_client*), 27
 DefaultApiClient (class in *ask_sdk_model_runtime.api_client*), 58

DistributionCountriesSerializer (class in *ask_sdk_core.serialize*), 28
 DistributionCountriesSerializer (class in *ask_sdk_model_runtime.serialize*), 62
 DistributionCountriesData (class in *ask_smapi_model.v1.skill.interaction_model.catalog.definition_data*), 445
 DelegateDirective (class in *ask_sdk_model.dialog.delegate_directive*), 69
 DelegationStrategyType (class in *ask_smapi_model.v1.skill.interaction_model.delegation_strategy*), 452
 delete_account_linking_info_v1 () (*ask_sdk_model.services.skill_management.skill_management* method), 340
 delete_asr_annotation_set_v1 () (*ask_smapi_model.services.skill_management.skill_management* method), 340
 delete_asr_evaluation_v1 () (*ask_smapi_model.services.skill_management.skill_management* method), 341
 delete_attributes () (*ask_sdk_core.attributes_manager.AbstractPersistenceAdapter* method), 27
 delete_attributes () (*ask_sdk_dynamodb.adapter.DynamoDbAdapter* method), 35
 delete_attributes () (*ask_sdk_s3.adapter.S3Adapter* method), 51
 delete_interaction_model_catalog_v1 () (*ask_smapi_model.services.skill_management.skill_management* method), 341
 delete_interaction_model_catalog_version_v1 () (*ask_smapi_model.services.skill_management.skill_management* method), 341
 delete_interaction_model_slot_type_v1 () (*ask_smapi_model.services.skill_management.skill_management* method), 341
 delete_interaction_model_slot_type_version_v1 () (*ask_smapi_model.services.skill_management.skill_management* method), 341
 delete_isp_for_product_v1 () (*ask_smapi_model.services.skill_management.skill_management* method), 342
 delete_list () (*ask_sdk_model.services.list_management.list_management* method), 259
 delete_list_item () (*ask_sdk_model.services.list_management.list_management_serv* method), 259
 delete_persistent_attributes () (*ask_sdk_core.attributes_manager.AttributesManager* method), 26

delete_private_distribution_account_id_value(serialized_types
(ask_smapi_model.services.skill_management.skill_management_client.SkillManagementServiceClientCompleted
method), 342 attribute), 312

delete_properties_for_nlu_annotation_set(serialized_types
(ask_smapi_model.services.skill_management.skill_management_client.SkillManagementServiceClient
method), 342 313

delete_reminder() deserialized_types
(ask_sdk_model.services.reminder_management.reminder_management_client.ReminderManagementServiceClient
method), 286 314

delete_skill_enablement_v1() deserialized_types
(ask_smapi_model.services.skill_management.skill_management_client.SkillManagementServiceClientConfirmIntentDirect
method), 342 attribute), 69

delete_skill_v1() deserialized_types
(ask_smapi_model.services.skill_management.skill_management_client.SkillManagementServiceClientConfirmSlotDirect
method), 343 attribute), 69

delete_subscriber_for_development_events(serialized_types
(ask_smapi_model.services.skill_management.skill_management_client.SkillManagementServiceClientDeleteDataDirect
method), 343 attribute), 69

delete_subscription_for_development_events(serialized_types
(ask_smapi_model.services.skill_management.skill_management_client.SkillManagementServiceClientDynamicEntity
method), 343 attribute), 70

DENIED(ask_sdk_model.intent_confirmation_status.IntentConfirmationStatus) types
attribute), 317 (ask_sdk_model.dialog.elicit_slot_directive.ElicitSlotDirective

DENIED(ask_sdk_model.permission_status.PermissionStatus) attribute), 70

DENIED(ask_sdk_model.slot_confirmation_status.SlotConfirmationStatus) deserialized_types
attribute), 330 (ask_sdk_model.directive.Directive attribute), 316

DENIED(ask_smapi_model.v1.skill.evaluations.confirmation_status_type.ConfirmationStatusType)
attribute), 428 (ask_sdk_model.er.dynamic.entity.Entity

DENIED_BY_PARENT(ask_sdk_model.services.monetization.status.Status) attribute), 71

Density (class in ask_sdk_core.utils.viewport), 30 deserialized_types
(ask_sdk_model.er.dynamic.entity_list_item.EntityListItem

deserialize() (ask_sdk_core.serialize.DefaultSerializer) attribute), 71

deserialize() (ask_sdk_model.services.serializer.Serializer) deserialized_types
method), 301 (ask_sdk_model.er.dynamic.entity_value_and_synonyms.EntityValueAndSynonyms

deserialize() (ask_sdk_model_runtime.serializer.DefaultSerializer) attribute), 72

deserialize() (ask_sdk_model_runtime.serializer.Serializer) deserialized_types
method), 62 (ask_sdk_model.events.skillevents.account_linked_body.AccountLinkedBody

deserialize() (ask_sdk_model_runtime.serializer.Serializer) attribute), 73

deserialized_types deserialized_types
(ask_sdk_model.application.Application attribute), 74

deserialized_types deserialized_types
(ask_sdk_model.canfulfill.can_fulfill_intent.CanFulfillIntent attribute), 74

deserialized_types deserialized_types
(ask_sdk_model.canfulfill.can_fulfill_intent_request.CanFulfillIntentRequest attribute), 74

deserialized_types deserialized_types
(ask_sdk_model.canfulfill.can_fulfill_slot.CanFulfillSlot attribute), 75

deserialized_types deserialized_types
(ask_sdk_model.cause.Cause attribute), 311 (ask_sdk_model.events.skillevents.permission_changed_request.PermissionChangedRequest

deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.component_visibility_changed_body.ProactiveSubscriptionChangedBody attribute), 76	deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.component_visibility_changed_request.ProactiveSubscriptionChangedRequest attribute), 77
deserialized_types	(ask_sdk_model.events.skillevents.proactive_subscription_event.ProactiveSubscriptionEvent attribute), 77	deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.component_visibility_disabled_request.SkillDisabledRequest attribute), 78
deserialized_types	(ask_sdk_model.events.skillevents.skill_enabled_request.SkillEnabledRequest attribute), 78	deserialized_types	(ask_sdk_model.intent.Intent attribute), 317
deserialized_types	(ask_sdk_model.intent_request.IntentRequest attribute), 318	deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.alexa_presentation_interface.AlexaPresentationInterface attribute), 79
deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.animate_command.Command attribute), 81	deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.animate_command.Command attribute), 81
deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.animated_opacity_property.AnimatedOpacityProperty attribute), 81	deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.animated_opacity_property.AnimatedOpacityProperty attribute), 82
deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.animated_opacity_property.AnimatedOpacityProperty attribute), 82	deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.animated_opacity_property.AnimatedOpacityProperty attribute), 82
deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.auto_page_command.Command attribute), 84	deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.auto_page_command.Command attribute), 84
deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.clear_focus_command.Command attribute), 84	deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.clear_focus_command.Command attribute), 84
deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.command.Command attribute), 86	deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.command.Command attribute), 86
deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.component_visibility_changed_body.ProactiveSubscriptionChangedBody attribute), 86	deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.component_visibility_changed_body.ProactiveSubscriptionChangedBody attribute), 86
deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.component_visibility_disabled_request.SkillDisabledRequest attribute), 88	deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.component_visibility_disabled_request.SkillDisabledRequest attribute), 88
deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.component_visibility_enabled_request.SkillEnabledRequest attribute), 88	deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.component_visibility_enabled_request.SkillEnabledRequest attribute), 88
deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.component_visibility_enabled_request.SkillEnabledRequest attribute), 88	deserialized_types	(ask_sdk_model.interfaces.alexa.presentation.apl.component_visibility_enabled_request.SkillEnabledRequest attribute), 88

<code>(ask_sdk_model.interfaces.alexa.presentation.apl.scroll_command.attribute)</code> , 102	<code>(ask_sdk_model.interfaces.alexa.presentation.apl.idle_command.attribute)</code> , 116
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.scroll_to_command.attribute)</code> , 103	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.parallel_command.attribute)</code> , 117
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.send_event_command.attribute)</code> , 104	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.render_document_command.attribute)</code> , 118
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.sequential_command.attribute)</code> , 105	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.runtime.RuntimeCommand.attribute)</code> , 118
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.set_focus_command.attribute)</code> , 106	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.scroll_command.attribute)</code> , 119
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.set_page_command.attribute)</code> , 107	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.send_event_command.attribute)</code> , 120
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.set_state_command.attribute)</code> , 108	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.sequential_command.attribute)</code> , 121
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.set_value_command.attribute)</code> , 108	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.set_page_command.attribute)</code> , 122
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.skew_transform_command.attribute)</code> , 109	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.set_value_command.attribute)</code> , 123
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.speak_item_command.attribute)</code> , 110	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.user_event.UserEvent.attribute)</code> , 124
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.speak_list_command.attribute)</code> , 110	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.html.alexa_presentation.html.attribute)</code> , 125
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.transform_command.attribute)</code> , 111	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.html.configuration.attribute)</code> , 125
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.user_event_command.attribute)</code> , 112	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.html.handle_message.attribute)</code> , 126
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.video_source_command.attribute)</code> , 112	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.html.message_request.attribute)</code> , 126
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.alexa_presentation_interface.attribute)</code> , 113	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.interface.attribute)</code> , 127
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.auto_page_command.attribute)</code> , 114	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.html.start_directive.attribute)</code> , 128
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.command_command.attribute)</code> , 115	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.html.start_request.attribute)</code> , 128
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.execute_command.attribute)</code> , 116	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.html.transformer.Transformers.attribute)</code> , 129
<code>deserialized_types</code>	<code>deserialized_types</code>

(ask_sdk_model.interfaces.amazonpay.model.request.authorization_details_attribute), 131	(ask_sdk_model.interfaces.amazonpay.model.v1.destination_destination_attribute), 150
deserialized_types	deserialized_types
(ask_sdk_model.interfaces.amazonpay.model.request.base_destination_attribute), 132	(ask_sdk_model.interfaces.amazonpay.model.v1.price_price_attribute), 151
deserialized_types	deserialized_types
(ask_sdk_model.interfaces.amazonpay.model.request.billing_agreement_provider_attribute), 133	(ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit_limit_provider_credit_limit_attribute), 152
deserialized_types	deserialized_types
(ask_sdk_model.interfaces.amazonpay.model.request.price_provider_credit_limit_provider_credit_limit_attribute), 134	(ask_sdk_model.interfaces.amazonpay.model.v1.seller_billing_agreement_provider_billing_agreement_provider_billing_agreement_attribute), 153
deserialized_types	deserialized_types
(ask_sdk_model.interfaces.amazonpay.model.request.provider_billing_agreement_provider_billing_agreement_attribute), 135	(ask_sdk_model.interfaces.amazonpay.model.v1.seller_order_attributes_provider_order_attributes_provider_order_attributes_attribute), 154
deserialized_types	deserialized_types
(ask_sdk_model.interfaces.amazonpay.model.request.seller_billing_agreement_provider_billing_agreement_attribute), 136	(ask_sdk_model.interfaces.amazonpay.model.v1.setup_amazon_pay_setup_amazon_pay_attribute), 155
deserialized_types	deserialized_types
(ask_sdk_model.interfaces.amazonpay.model.request.seller_order_attributes_provider_order_attributes_provider_order_attributes_attribute), 137	(ask_sdk_model.interfaces.amazonpay.model.v1.setup_amazon_pay_setup_amazon_pay_attribute), 156
deserialized_types	deserialized_types
(ask_sdk_model.interfaces.amazonpay.model.response.authorization_details_provider_order_attributes_provider_order_attributes_attribute), 139	(ask_sdk_model.interfaces.amazonpay.model.v1.amazon_pay_error_response_amazon_pay_error_response_attribute), 157
deserialized_types	deserialized_types
(ask_sdk_model.interfaces.amazonpay.model.response.authorization_status_provider_order_attributes_provider_order_attributes_attribute), 140	(ask_sdk_model.interfaces.amazonpay.model.v1.charge_amazon_pay_charge_amazon_pay_attribute), 158
deserialized_types	deserialized_types
(ask_sdk_model.interfaces.amazonpay.model.response.billing_agreement_provider_billing_agreement_provider_billing_agreement_attribute), 141	(ask_sdk_model.interfaces.amazonpay.model.v1.charge_amazon_pay_charge_amazon_pay_attribute), 158
deserialized_types	deserialized_types
(ask_sdk_model.interfaces.amazonpay.model.response.destination_provider_billing_agreement_provider_billing_agreement_attribute), 142	(ask_sdk_model.interfaces.amazonpay.model.v1.amazon_pay_error_response_amazon_pay_error_response_attribute), 159
deserialized_types	deserialized_types
(ask_sdk_model.interfaces.amazonpay.model.response.price_provider_billing_agreement_provider_billing_agreement_attribute), 142	(ask_sdk_model.interfaces.amazonpay.model.v1.charge_amazon_pay_charge_amazon_pay_attribute), 160
deserialized_types	deserialized_types
(ask_sdk_model.interfaces.amazonpay.model.v1.authorization_details_provider_billing_agreement_provider_billing_agreement_attribute), 145	(ask_sdk_model.interfaces.amazonpay.model.v1.charge_amazon_pay_charge_amazon_pay_attribute), 160
deserialized_types	deserialized_types
(ask_sdk_model.interfaces.amazonpay.model.v1.authorization_status_provider_billing_agreement_provider_billing_agreement_attribute), 146	(ask_sdk_model.interfaces.amazonpay.model.v1.setup_amazon_pay_setup_amazon_pay_attribute), 161
deserialized_types	deserialized_types
(ask_sdk_model.interfaces.amazonpay.model.v1.authorize_provider_billing_agreement_provider_billing_agreement_attribute), 146	(ask_sdk_model.interfaces.amazonpay.model.v1.setup_amazon_pay_setup_amazon_pay_attribute), 162
deserialized_types	deserialized_types
(ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_provider_billing_agreement_provider_billing_agreement_attribute), 147	(ask_sdk_model.interfaces.amazonpay.model.v1.audio_item_audio_item_attribute), 162
deserialized_types	deserialized_types
(ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_provider_billing_agreement_provider_billing_agreement_attribute), 148	(ask_sdk_model.interfaces.amazonpay.model.v1.audio_item_metadata_audio_item_metadata_attribute), 163
deserialized_types	deserialized_types

<code>(ask_sdk_model.interfaces.audioplayer.audio_player_interface.AudioPlayerInterface.attribute)</code> , 163	<code>(ask_sdk_model.interfaces.connections.entities.base_entity.BaseEntity.attribute)</code> , 173
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.audioplayer.audio_player_state.AudioPlayerState.attribute)</code> , 164	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.connections.entities.postal_address.PostalAddress.attribute)</code> , 174
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.audioplayer.caption_data.CaptionData.attribute)</code> , 164	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.connections.entities.restaurant.Restaurant.attribute)</code> , 175
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.audioplayer.clear_queue_directive.ClearQueueDirective.attribute)</code> , 165	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.connections.requests.base_request.BaseRequest.attribute)</code> , 176
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.audioplayer.current_playback_status.CurrentPlaybackStatus.attribute)</code> , 166	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.connections.requests.print_image_request.PrintImageRequest.attribute)</code> , 177
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.audioplayer.error.Error.attribute)</code> , 166	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.connections.requests.print_pdf_request.PrintPdfRequest.attribute)</code> , 177
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.audioplayer.play_directive.PlayDirective.attribute)</code> , 167	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.connections.requests.print_web_page_request.PrintWebPageRequest.attribute)</code> , 178
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.audioplayer.playback_failed_request.PlaybackFailedRequest.attribute)</code> , 168	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.connections.requests.schedule_food_order_request.ScheduleFoodOrderRequest.attribute)</code> , 178
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.audioplayer.playback_finished_request.PlaybackFinishedRequest.attribute)</code> , 169	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.connections.requests.schedule_taxi_request.ScheduleTaxiRequest.attribute)</code> , 179
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.audioplayer.playback_nearly_finished_request.PlaybackNearlyFinishedRequest.attribute)</code> , 169	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.connections.requests.send_response_directive.SendResponseDirective.attribute)</code> , 183
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.audioplayer.playback_started_request.PlaybackStartedRequest.attribute)</code> , 170	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.connections.send_response_directive.SendResponseDirective.attribute)</code> , 184
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.audioplayer.playback_stopped_request.PlaybackStoppedRequest.attribute)</code> , 171	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.connections.v1.start_connection_directive.V1StartConnectionDirective.attribute)</code> , 180
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.audioplayer.stop_directive.StopDirective.attribute)</code> , 171	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.custom_interface_controller.endpoint.Endpoint.attribute)</code> , 184
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.audioplayer.stream.Stream.attribute)</code> , 172	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.custom_interface_controller.event.Event.attribute)</code> , 185
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.automotive.automotive_state.AutomotiveState.attribute)</code> , 173	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.custom_interface_controller.event_filter.EventFilter.attribute)</code> , 185
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.connections.connections_request.ConnectionRequest.attribute)</code> , 181	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.custom_interface_controller.events_request.EventsRequest.attribute)</code> , 186
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.connections.connections_response.ConnectionResponse.attribute)</code> , 182	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.custom_interface_controller.expiration_request.ExpirationRequest.attribute)</code> , 187
<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.connections.connections_status.ConnectionStatus.attribute)</code> , 183	<code>deserialized_types</code> <code>(ask_sdk_model.interfaces.custom_interface_controller.expired_request.ExpiredRequest.attribute)</code> , 188
<code>deserialized_types</code>	<code>deserialized_types</code>

<code>(ask_sdk_model.interfaces.custom_interface_controller.head_as_header_model.interfaces.display.list_template2.ListTemplate2 attribute)</code> , 188	<code>(ask_sdk_model.interfaces.display.list_template2.ListTemplate2 attribute)</code> , 199
deserialized_types <code>(ask_sdk_model.interfaces.custom_interface_controller.send_address_and_intent_directive.PlainText attribute)</code> , 189	deserialized_types <code>(ask_sdk_model.interfaces.display.directive.PlainText attribute)</code> , 200
deserialized_types <code>(ask_sdk_model.interfaces.custom_interface_controller.start_ask_sdk_handler_interfaces.SuspenseHandlerDirective.PlainTextHint attribute)</code> , 190	deserialized_types <code>(ask_sdk_model.interfaces.suspense_handler_directive.PlainTextHint attribute)</code> , 200
deserialized_types <code>(ask_sdk_model.interfaces.custom_interface_controller.stop_ask_sdk_handler_directive.SuspenseHandlerDirective.Render attribute)</code> , 190	deserialized_types <code>(ask_sdk_model.interfaces.suspense_handler_directive.Render attribute)</code> , 200
deserialized_types <code>(ask_sdk_model.interfaces.display.body_template1.BodyTemplate1 attribute)</code> , 191	deserialized_types <code>(ask_sdk_model.interfaces.display.rich_text.RichText attribute)</code> , 201
deserialized_types <code>(ask_sdk_model.interfaces.display.body_template2.BodyTemplate2 attribute)</code> , 192	deserialized_types <code>(ask_sdk_model.interfaces.display.template.Template attribute)</code> , 202
deserialized_types <code>(ask_sdk_model.interfaces.display.body_template3.BodyTemplate3 attribute)</code> , 193	deserialized_types <code>(ask_sdk_model.interfaces.display.text_content.TextContent attribute)</code> , 202
deserialized_types <code>(ask_sdk_model.interfaces.display.body_template6.BodyTemplate6 attribute)</code> , 193	deserialized_types <code>(ask_sdk_model.interfaces.display.text_field.TextField attribute)</code> , 203
deserialized_types <code>(ask_sdk_model.interfaces.display.body_template7.BodyTemplate7 attribute)</code> , 194	deserialized_types <code>(ask_sdk_model.interfaces.gadget_controller.set_light_directive.SetLight attribute)</code> , 204
deserialized_types <code>(ask_sdk_model.interfaces.display.display_interface.DisplayInterface attribute)</code> , 194	deserialized_types <code>(ask_sdk_model.interfaces.game_engine.input_handler_event_request.EventRequest attribute)</code> , 205
deserialized_types <code>(ask_sdk_model.interfaces.display.display_state.DisplayState attribute)</code> , 195	deserialized_types <code>(ask_sdk_model.interfaces.game_engine.start_input_handler_directive.StartInputHandlerDirective attribute)</code> , 205
deserialized_types <code>(ask_sdk_model.interfaces.display.element_selected_request.ElementSelectedRequest attribute)</code> , 195	deserialized_types <code>(ask_sdk_model.interfaces.game_engine.stop_input_handler_directive.StopInputHandlerDirective attribute)</code> , 206
deserialized_types <code>(ask_sdk_model.interfaces.display.hint.Hint attribute)</code> , 196	deserialized_types <code>(ask_sdk_model.interfaces.geolocation.altitude.Altitude attribute)</code> , 207
deserialized_types <code>(ask_sdk_model.interfaces.display.hint_directive.HintDirective attribute)</code> , 196	deserialized_types <code>(ask_sdk_model.interfaces.geolocation.coordinate.Coordinate attribute)</code> , 207
deserialized_types <code>(ask_sdk_model.interfaces.display.image.Image attribute)</code> , 197	deserialized_types <code>(ask_sdk_model.interfaces.geolocation.geolocation_interface.GeolocationInterface attribute)</code> , 208
deserialized_types <code>(ask_sdk_model.interfaces.display.image_instance.ImageInstance attribute)</code> , 197	deserialized_types <code>(ask_sdk_model.interfaces.geolocation.geolocation_state.GeolocationState attribute)</code> , 208
deserialized_types <code>(ask_sdk_model.interfaces.display.list_item.ListItem attribute)</code> , 198	deserialized_types <code>(ask_sdk_model.interfaces.geolocation.heading.Heading attribute)</code> , 209
deserialized_types <code>(ask_sdk_model.interfaces.display.list_template1.ListTemplate1 attribute)</code> , 199	deserialized_types <code>(ask_sdk_model.interfaces.geolocation.location_services.LocationServices attribute)</code> , 209
deserialized_types	deserialized_types

<code>(ask_sdk_model.interfaces.geolocation.speed.Speed</code>	<code>(ask_sdk_model.interfaces.viewport.apl.current_configuration.CurrentConfiguration</code>	
<code>attribute)</code> , 210	<code>attribute)</code> , 222	
<code>deserialized_types</code>	<code>deserialized_types</code>	
<code>(ask_sdk_model.interfaces.messaging.message_received_request.MessageReceivedRequest</code>	<code>(ask_sdk_model.interfaces.viewport.apl.viewport_configuration.ViewportConfiguration</code>	
<code>attribute)</code> , 211	<code>attribute)</code> , 222	
<code>deserialized_types</code>	<code>deserialized_types</code>	
<code>(ask_sdk_model.interfaces.monetization.v1.in_skill_product_request.InSkillProductRequest</code>	<code>(ask_sdk_model.interfaces.viewport.apl_viewport_state.APLViewportState</code>	
<code>attribute)</code> , 212	<code>attribute)</code> , 227	
<code>deserialized_types</code>	<code>deserialized_types</code>	
<code>(ask_sdk_model.interfaces.navigation.assistance.announce_request.AnnounceRequest</code>	<code>(ask_sdk_model.interfaces.viewport.apl_viewport_state.APLViewportState</code>	
<code>attribute)</code> , 213	<code>attribute)</code> , 223	
<code>deserialized_types</code>	<code>deserialized_types</code>	
<code>(ask_sdk_model.interfaces.navigation.navigation_interface.NavigationInterface</code>	<code>(ask_sdk_model.interfaces.viewport.apl_viewport_state.APLViewportState</code>	
<code>attribute)</code> , 213	<code>attribute)</code> , 228	
<code>deserialized_types</code>	<code>deserialized_types</code>	
<code>(ask_sdk_model.interfaces.playbackcontroller.next_command_request.NextCommandRequest</code>	<code>(ask_sdk_model.interfaces.viewport.apl_viewport_state.APLViewportState</code>	
<code>attribute)</code> , 214	<code>attribute)</code> , 228	
<code>deserialized_types</code>	<code>deserialized_types</code>	
<code>(ask_sdk_model.interfaces.playbackcontroller.pause_command_request.PauseCommandRequest</code>	<code>(ask_sdk_model.interfaces.viewport.apl_viewport_state.APLViewportState</code>	
<code>attribute)</code> , 215	<code>attribute)</code> , 224	
<code>deserialized_types</code>	<code>deserialized_types</code>	
<code>(ask_sdk_model.interfaces.playbackcontroller.play_command_request.PlayCommandRequest</code>	<code>(ask_sdk_model.interfaces.viewport.apl_viewport_state.APLViewportState</code>	
<code>attribute)</code> , 215	<code>attribute)</code> , 224	
<code>deserialized_types</code>	<code>deserialized_types</code>	
<code>(ask_sdk_model.interfaces.playbackcontroller.previous_command_request.PreviousCommandRequest</code>	<code>(ask_sdk_model.interfaces.viewport.apl_viewport_state.APLViewportState</code>	
<code>attribute)</code> , 216	<code>attribute)</code> , 225	
<code>deserialized_types</code>	<code>deserialized_types</code>	
<code>(ask_sdk_model.interfaces.system.error.Error</code>	<code>(ask_sdk_model.interfaces.viewport.typed_viewport_state.TypedViewportState</code>	
<code>attribute)</code> , 216	<code>attribute)</code> , 230	
<code>deserialized_types</code>	<code>deserialized_types</code>	
<code>(ask_sdk_model.interfaces.system.error_cause.ErrorCause</code>	<code>(ask_sdk_model.interfaces.viewport.viewport_state.ViewportState</code>	
<code>attribute)</code> , 217	<code>attribute)</code> , 232	
<code>deserialized_types</code>	<code>deserialized_types</code>	
<code>(ask_sdk_model.interfaces.system.exception_encountered_request.ExceptionEncounteredRequest</code>	<code>(ask_sdk_model.interfaces.viewport.viewport_state_video.VideoViewportStateVideo</code>	
<code>attribute)</code> , 218	<code>attribute)</code> , 232	
<code>deserialized_types</code>	<code>deserialized_types</code>	
<code>(ask_sdk_model.interfaces.system.system_state.SystemState</code>	<code>(ask_sdk_model.interfaces.viewport.viewport_video.ViewportVideo</code>	
<code>attribute)</code> , 218	<code>attribute)</code> , 232	
<code>deserialized_types</code>	<code>deserialized_types</code>	
<code>(ask_sdk_model.interfaces.tasks.complete_task_directive.CompleteTaskDirective</code>	<code>(ask_sdk_model.interfaces.viewport.viewport_video.ViewportVideo</code>	
<code>attribute)</code> , 219	<code>attribute)</code> , 319	
<code>deserialized_types</code>	<code>deserialized_types</code>	
<code>(ask_sdk_model.interfaces.videoapp.launch_directive.LaunchDirective</code>	<code>(ask_sdk_model.permissions.Permissions</code>	
<code>attribute)</code> , 220	<code>attribute)</code> , 320	
<code>deserialized_types</code>	<code>deserialized_types</code>	
<code>(ask_sdk_model.interfaces.videoapp.metadata.Metadata</code>	<code>(ask_sdk_model.person.Person</code>	<code>attribute)</code> ,
<code>attribute)</code> , 220	320	
<code>deserialized_types</code>	<code>deserialized_types</code>	
<code>(ask_sdk_model.interfaces.videoapp.video_app_interface.VideoAppInterface</code>	<code>(ask_sdk_model.request.Request</code>	<code>attribute)</code> ,
<code>attribute)</code> , 220	323	
<code>deserialized_types</code>	<code>deserialized_types</code>	
<code>(ask_sdk_model.interfaces.videoapp.video_item.VideoItem</code>	<code>(ask_sdk_model.request_envelope.RequestEnvelope</code>	
<code>attribute)</code> , 221	<code>attribute)</code> , 324	
<code>deserialized_types</code>	<code>deserialized_types</code>	

(ask_sdk_model.response.Response attribute), 325

deserialized_types (ask_sdk_model.response_envelope.ResponseEnvelope attribute), 325

deserialized_types (ask_sdk_model.scope.Scope attribute), 326

deserialized_types (ask_sdk_model.services.device_address.address.Address attribute), 233

deserialized_types (ask_sdk_model.services.device_address.error.Error attribute), 235

deserialized_types (ask_sdk_model.services.device_address.short_address.ShortAddress attribute), 235

deserialized_types (ask_sdk_model.services.directive.directive.Directive attribute), 236

deserialized_types (ask_sdk_model.services.directive.error.Error attribute), 237

deserialized_types (ask_sdk_model.services.directive.header.Header attribute), 237

deserialized_types (ask_sdk_model.services.directive.send_directive_request.SendDirectiveRequest attribute), 237

deserialized_types (ask_sdk_model.services.directive.speak_directive.SpeakDirective attribute), 238

deserialized_types (ask_sdk_model.services.endpoint_enumeration.endpoint_capability.EndpointCapability attribute), 238

deserialized_types (ask_sdk_model.services.endpoint_enumeration.endpoint_enumeration.EndpointEnumeration attribute), 239

deserialized_types (ask_sdk_model.services.endpoint_enumeration.endpoint_info.EndpointInfo attribute), 240

deserialized_types (ask_sdk_model.services.endpoint_enumeration.error.Error attribute), 240

deserialized_types (ask_sdk_model.services.gadget_controller.animation_step.AnimationStep attribute), 241

deserialized_types (ask_sdk_model.services.gadget_controller.light_animation.LightAnimation attribute), 242

deserialized_types (ask_sdk_model.services.gadget_controller.set_light_parameters.SetLightParameters attribute), 242

deserialized_types (ask_sdk_model.services.game_engine.deviation_recognizer.DeviationRecognizer attribute), 243

deserialized_types (ask_sdk_model.services.game_engine.event.Event attribute), 244

deserialized_types (ask_sdk_model.services.game_engine.input_event.InputEvent attribute), 245

deserialized_types (ask_sdk_model.services.game_engine.input_handler_event.InputHandlerEvent attribute), 246

deserialized_types (ask_sdk_model.services.game_engine.pattern.Pattern attribute), 246

deserialized_types (ask_sdk_model.services.game_engine.pattern_recognizer.PatternRecognizer attribute), 247

deserialized_types (ask_sdk_model.services.game_engine.progress_recognizer.ProgressRecognizer attribute), 248

deserialized_types (ask_sdk_model.services.game_engine.recognizer.Recognizer attribute), 249

deserialized_types (ask_sdk_model.services.list_management.alexa_list.AlexaList attribute), 250

deserialized_types (ask_sdk_model.services.list_management.alexa_list_item.AlexaListItem attribute), 250

deserialized_types (ask_sdk_model.services.list_management.alexa_list_metadata.AlexaListMetadata attribute), 251

deserialized_types (ask_sdk_model.services.list_management.alexa_lists_metadata.AlexaListsMetadata attribute), 251

deserialized_types (ask_sdk_model.services.list_management.create_list_request.CreateListRequest attribute), 252

deserialized_types (ask_sdk_model.services.list_management.error.Error attribute), 253

deserialized_types (ask_sdk_model.services.list_management.forbidden_error.ForbiddenError attribute), 253

deserialized_types (ask_sdk_model.services.list_management.links.Links attribute), 253

deserialized_types (ask_sdk_model.services.list_management.list_body.ListBody attribute), 254

deserialized_types (ask_sdk_model.services.list_management.list_created_event_request.ListCreatedEventRequest attribute), 254

attribute), 254	attribute), 272
deserialized_types	deserialized_types
(ask_sdk_model.services.list_management.list_deleted_event_request.ListDeletedEventRequest.attribute), 255	(ask_sdk_model.services.list_management.list_deleted_event_request.ListDeletedEventRequest.transactions.Transactions.attribute), 274
deserialized_types	deserialized_types
(ask_sdk_model.services.list_management.list_item_body.ListItemBody.attribute), 255	(ask_sdk_model.services.proactive_events.create_proactive_event_request.CreateProactiveEventRequest.attribute), 275
deserialized_types	deserialized_types
(ask_sdk_model.services.list_management.list_items_create_event_request.ListItemsCreateEventRequest.attribute), 256	(ask_sdk_model.services.proactive_events.create_proactive_event_request.CreateProactiveEventRequest.Error.attribute), 275
deserialized_types	deserialized_types
(ask_sdk_model.services.list_management.list_items_deleted_event_request.ListItemsDeletedEventRequest.attribute), 257	(ask_sdk_model.services.proactive_events.create_proactive_event_request.CreateProactiveEventRequest.Event.attribute), 275
deserialized_types	deserialized_types
(ask_sdk_model.services.list_management.list_items_updated_event_request.ListItemsUpdatedEventRequest.attribute), 258	(ask_sdk_model.services.proactive_events.create_proactive_event_request.CreateProactiveEventRequest.next_audience.RelatedAudience.attribute), 277
deserialized_types	deserialized_types
(ask_sdk_model.services.list_management.list_updated_event_request.ListUpdatedEventRequest.attribute), 261	(ask_sdk_model.services.proactive_events.create_proactive_event_request.CreateProactiveEventRequest.alert_info.AlertInfo.attribute), 278
deserialized_types	deserialized_types
(ask_sdk_model.services.list_management.status.Status.attribute), 262	(ask_sdk_model.services.reminder_management.alert_info_spoke_alert_info.AlertInfoSpokeAlertInfo.attribute), 278
deserialized_types	deserialized_types
(ask_sdk_model.services.list_management.update_list_item_request.UpdateListItemRequest.attribute), 262	(ask_sdk_model.services.reminder_management.error.Error.attribute), 279
deserialized_types	deserialized_types
(ask_sdk_model.services.list_management.update_list_request.UpdateListRequest.attribute), 263	(ask_sdk_model.services.reminder_management.event.Event.attribute), 279
deserialized_types	deserialized_types
(ask_sdk_model.services.lwa.access_token_request.AccessTokenRequest.attribute), 264	(ask_sdk_model.services.reminder_management.get_reminder_request.GetReminderRequest.attribute), 280
deserialized_types	deserialized_types
(ask_sdk_model.services.lwa.access_token_response.AccessTokenResponse.attribute), 264	(ask_sdk_model.services.reminder_management.get_reminders_request.GetRemindersRequest.attribute), 281
deserialized_types	deserialized_types
(ask_sdk_model.services.lwa.error.Error.attribute), 264	(ask_sdk_model.services.reminder_management.push_notification.PushNotification.attribute), 281
deserialized_types	deserialized_types
(ask_sdk_model.services.monetization.error.Error.attribute), 267	(ask_sdk_model.services.reminder_management.recurrence.Recurrence.attribute), 282
deserialized_types	deserialized_types
(ask_sdk_model.services.monetization.in_skill_product.InSkillProduct.attribute), 268	(ask_sdk_model.services.reminder_management.reminder.Reminder.attribute), 284
deserialized_types	deserialized_types
(ask_sdk_model.services.monetization.in_skill_product_transaction_response.InSkillProductTransactionResponse.attribute), 268	(ask_sdk_model.services.reminder_management.reminder_create_request.ReminderCreateRequest.attribute), 284
deserialized_types	deserialized_types
(ask_sdk_model.services.monetization.in_skill_products_response.InSkillProductsResponse.attribute), 269	(ask_sdk_model.services.reminder_management.reminder_delete_request.ReminderDeleteRequest.attribute), 285
deserialized_types	deserialized_types
(ask_sdk_model.services.monetization.metadata.Metadata.attribute), 269	(ask_sdk_model.services.reminder_management.reminder_delete_request.ReminderDeleteRequest.attribute), 285
deserialized_types	deserialized_types
(ask_sdk_model.services.monetization.result_set.ResultSet.attribute), 269	(ask_sdk_model.services.reminder_management.reminder_request.ReminderRequest.attribute), 285

attribute), 287
 deserialized_types
 (ask_sdk_model.services.reminder_management.reminder_management_response.ReminderResponse
 attribute), 288
 deserialized_types
 (ask_sdk_model.services.reminder_management.reminder_management_response.ReminderResponse
 attribute), 289
 deserialized_types
 (ask_sdk_model.services.reminder_management.reminder_status_changed_event_request.ReminderStatusChangedEventRequest
 attribute), 289
 deserialized_types
 (ask_sdk_model.services.reminder_management.reminder_updated_event_request.ReminderUpdatedEventRequest
 attribute), 290
 deserialized_types
 (ask_sdk_model.services.reminder_management.spoken_text(SpeakableText
 attribute), 290
 deserialized_types
 (ask_sdk_model.services.reminder_management.trigger.Trigger
 attribute), 291
 deserialized_types
 (ask_sdk_model.services.skill_messaging.error.Error
 attribute), 292
 deserialized_types
 (ask_sdk_model.services.skill_messaging.send_skill_messaging_request.SendSkillMessagingRequest
 attribute), 293
 deserialized_types
 (ask_sdk_model.services.ups.error.Error
 attribute), 295
 deserialized_types
 (ask_sdk_model.services.ups.phone_number.PhoneNumber
 attribute), 295
 deserialized_types
 (ask_sdk_model.session.Session
 attribute),
 326
 deserialized_types
 (ask_sdk_model.session_ended_error.SessionEndedError
 attribute), 327
 deserialized_types
 (ask_sdk_model.session_ended_request.SessionEndedRequest
 attribute), 328
 deserialized_types
 (ask_sdk_model.session_resumed_request.SessionResumedRequest
 attribute), 329
 deserialized_types (ask_sdk_model.slot.Slot
 attribute), 330
 deserialized_types
 (ask_sdk_model.slu.entityresolution.resolution.Resolution
 attribute), 304
 deserialized_types
 (ask_sdk_model.slu.entityresolution.resolutions.Resolutions
 attribute), 304
 deserialized_types
 (ask_sdk_model.slu.entityresolution.status.Status
 attribute), 304
 deserialized_types
 (ask_sdk_model.slu.entityresolution.value.Value
 attribute), 305
 deserialized_types
 (ask_sdk_model.slu.entityresolution.value_wrapper.ValueWrapper
 attribute), 305
 deserialized_types (ask_sdk_model.status.Status
 attribute), 330
 deserialized_types
 (ask_sdk_model.supported_interfaces.SupportedInterfaces
 attribute), 331
 deserialized_types
 (ask_sdk_model.supported_interfaces.SupportedInterfaces
 attribute), 332
 deserialized_types
 (ask_sdk_model.ui.ask_for_permissions_consent_card.AskForPermissionsConsentCard
 attribute), 306
 deserialized_types (ask_sdk_model.ui.card.Card
 attribute), 307
 deserialized_types
 (ask_sdk_model.ui.image.Image
 attribute),
 307
 deserialized_types
 (ask_sdk_model.ui.link_account_card.LinkAccountCard
 attribute), 308
 deserialized_types
 (ask_sdk_model.ui.output_speech.OutputSpeech
 attribute), 308
 deserialized_types
 (ask_sdk_model.ui.plain_text_output_speech.PlainTextOutputSpeech
 attribute), 308
 deserialized_types
 (ask_sdk_model.ui.reprompt.Reprompt
 attribute), 309
 deserialized_types
 (ask_sdk_model.ui.simple_card.SimpleCard
 attribute), 310
 deserialized_types
 (ask_sdk_model.ui.ssmml_output_speech.SsmmlOutputSpeech
 attribute), 310
 deserialized_types
 (ask_sdk_model.ui.standard_card.StandardCard
 attribute), 310
 deserialized_types (ask_sdk_model.user.User
 attribute), 332
 deserialized_types
 (ask_sdk_model_runtime.lwa.access_token_request.AccessTokenRequest
 attribute), 56
 deserialized_types
 (ask_sdk_model_runtime.lwa.access_token_response.AccessTokenResponse
 attribute), 56
 deserialized_types
 (ask_sdk_model_runtime.lwa.error.Error
 attribute), 57
 deserialized_types

<code>(ask_smapi_model.v1.bad_request_error.BadRequestError</code>	<code>(ask_smapi_model.v1.isp.in_skill_product_summary_response.InSkillProductSummaryResponse</code>
<code>attribute)</code> , 556	<code>attribute)</code> , 400
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.catalog.create_content_upload_url_request.CreateContentUploadUrlRequest</code>	<code>(ask_smapi_model.v1.links.IspSummaryLinks</code>
<code>attribute)</code> , 387	<code>attribute)</code> , 400
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.catalog.create_content_upload_url_response.CreateContentUploadUrlResponse</code>	<code>(ask_smapi_model.v1.isp.in_skill_product_response.InSkillProductResponse</code>
<code>attribute)</code> , 387	<code>attribute)</code> , 401
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.catalog.presigned_upload_part_items.PresignedUploadPartItems</code>	<code>(ask_smapi_model.v1.isp.in_skill_product_response.ListInSkillProductResponse</code>
<code>attribute)</code> , 388	<code>attribute)</code> , 401
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.catalog.upload.catalog_upload_base.CatalogUploadBase</code>	<code>(ask_smapi_model.v1.isp.localized_privacy_and_compliance.LocalizedPrivacyAndCompliance</code>
<code>attribute)</code> , 382	<code>attribute)</code> , 402
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.catalog.upload.content_upload_file_source.ContentUploadFileSource</code>	<code>(ask_smapi_model.v1.isp.publishing_information.LocalizedPublishingInformation</code>
<code>attribute)</code> , 382	<code>attribute)</code> , 403
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.catalog.upload.get_content_upload_response.GetContentUploadResponse</code>	<code>(ask_smapi_model.v1.isp.marketplace_pricing.MarketplacePricing</code>
<code>attribute)</code> , 383	<code>attribute)</code> , 403
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.catalog.upload.location.Location</code>	<code>(ask_smapi_model.v1.isp.price_listing.PriceListing</code>
<code>attribute)</code> , 384	<code>attribute)</code> , 404
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.catalog.upload.pre_signed_url.PreSignedUrl</code>	<code>(ask_smapi_model.v1.isp.privacy_and_compliance.PrivacyAndCompliance</code>
<code>attribute)</code> , 385	<code>attribute)</code> , 404
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.catalog.upload.pre_signed_url_item.PreSignedUrlItem</code>	<code>(ask_smapi_model.v1.isp.product_response.ProductResponse</code>
<code>attribute)</code> , 385	<code>attribute)</code> , 405
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.catalog.upload.upload_ingestion_step.UploadIngestionStep</code>	<code>(ask_smapi_model.v1.isp.publishing_information.PublishingInformation</code>
<code>attribute)</code> , 386	<code>attribute)</code> , 406
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.error.Error</code>	<code>(ask_smapi_model.v1.isp.subscription_information.SubscriptionInformation</code>
<code>attribute)</code> , 556	<code>attribute)</code> , 407
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.isp.associated_skill_response.AssociatedSkillResponse</code>	<code>(ask_smapi_model.v1.isp.summary_marketplace_pricing.SummaryMarketplacePricing</code>
<code>attribute)</code> , 389	<code>attribute)</code> , 408
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.isp.create_in_skill_product_request.CreateInSkillProductRequest</code>	<code>(ask_smapi_model.v1.isp.summary_price_listing.SummaryPriceListing</code>
<code>attribute)</code> , 389	<code>attribute)</code> , 409
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.isp.custom_product_prompts.CustomProductPrompts</code>	<code>(ask_smapi_model.v1.isp.tax_information.TaxInformation</code>
<code>attribute)</code> , 390	<code>attribute)</code> , 409
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.isp.in_skill_product_definition.InSkillProductDefinition</code>	<code>(ask_smapi_model.v1.isp.update_in_skill_product_request.UpdateInSkillProductRequest</code>
<code>attribute)</code> , 398	<code>attribute)</code> , 410
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.isp.in_skill_product_definition_response.InSkillProductDefinitionResponse</code>	<code>(ask_smapi_model.v1.isp.in_skill_product_definition_response.InSkillProductDefinitionResponse</code>
<code>attribute)</code> , 399	<code>attribute)</code> , 557
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.isp.in_skill_product_summary.InSkillProductSummary</code>	<code>(ask_smapi_model.v1.links.Links</code>
<code>attribute)</code> , 400	<code>attribute)</code> , 557
<code>deserialized_types</code>	<code>deserialized_types</code>

<code>(ask_smapi_model.v1.skill.evaluations.resolutions_per_auth_attribute)</code> , 433	<code>(ask_smapi_model.v1.skill.evaluations.resolutions_per_auth_attribute)</code> , 442
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.evaluations.resolutions_per_auth_attribute)</code> , 434	<code>(ask_smapi_model.v1.skill.evaluations.resolutions_per_auth_attribute)</code> , 443
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.evaluations.slot.SlotAttribute)</code> , 434	<code>(ask_smapi_model.v1.skill.interaction_model.catalog.catalog_info_attribute)</code> , 443
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.evaluations.slot_resolutions.SlotResolutionsAttribute)</code> , 435	<code>(ask_smapi_model.v1.skill.interaction_model.catalog.catalog_item_attribute)</code> , 444
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.export_response.ExportResponseAttribute)</code> , 538	<code>(ask_smapi_model.v1.skill.interaction_model.catalog.catalog_response_attribute)</code> , 444
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.export_response_skill.ExportResponseSkillAttribute)</code> , 538	<code>(ask_smapi_model.v1.skill.interaction_model.catalog.catalog_status_attribute)</code> , 445
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.history.confidence.ConfidenceAttribute)</code> , 435	<code>(ask_smapi_model.v1.skill.interaction_model.catalog.definition_catalog_attribute)</code> , 445
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.history.dialog_act.DialogActAttribute)</code> , 436	<code>(ask_smapi_model.v1.skill.interaction_model.catalog.last_update_attribute)</code> , 446
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.history.intent.IntentAttribute)</code> , 437	<code>(ask_smapi_model.v1.skill.interaction_model.catalog.list_catalog_attribute)</code> , 447
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.history.intent_request.IntentRequestAttribute)</code> , 438	<code>(ask_smapi_model.v1.skill.interaction_model.catalog.update_request_attribute)</code> , 447
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.history.intent_requests.IntentRequestsAttribute)</code> , 440	<code>(ask_smapi_model.v1.skill.interaction_model.catalog_value_support_attribute)</code> , 453
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.history.slot.SlotAttribute)</code> , 441	<code>(ask_smapi_model.v1.skill.interaction_model.dialog.DialogAttribute)</code> , 454
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.image_attributes.ImageAttribute)</code> , 539	<code>(ask_smapi_model.v1.skill.interaction_model.dialog_intents.DialogIntentsAttribute)</code> , 454
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.image_dimension.ImageDimensionAttribute)</code> , 539	<code>(ask_smapi_model.v1.skill.interaction_model.dialog_intents_prompt_attributes.Attribute)</code> , 455
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.image_size.ImageSizeAttribute)</code> , 539	<code>(ask_smapi_model.v1.skill.interaction_model.dialog_prompts.DialogPromptsAttribute)</code> , 455
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.import_response.ImportResponseAttribute)</code> , 540	<code>(ask_smapi_model.v1.skill.interaction_model.dialog_slot_items.DialogSlotItemsAttribute)</code> , 456
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.import_response_skill.ImportResponseSkillAttribute)</code> , 541	<code>(ask_smapi_model.v1.skill.interaction_model.has_entity_resolution_attribute)</code> , 457
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.instance.InstanceAttribute)</code> , 541	<code>(ask_smapi_model.v1.skill.interaction_model.intent.IntentAttribute)</code> , 457
<code>deserialized_types</code>	<code>deserialized_types</code>

(ask_smapi_model.v1.skill.interaction_model.interaction_model_definition_model.version.catalog_value_attribute), 458

deserialized_types (ask_smapi_model.v1.skill.interaction_model.interaction_model_definition_model.version.catalog_value_attribute), 458

deserialized_types (ask_smapi_model.v1.skill.interaction_model.is_greater_than_ask_smapi_model.v1.skill.interaction_model.version.catalog_value_attribute), 459

deserialized_types (ask_smapi_model.v1.skill.interaction_model.is_greater_than_ask_smapi_model.v1.skill.interaction_model.version.input_source_attribute), 459

deserialized_types (ask_smapi_model.v1.skill.interaction_model.is_in_duration_ask_smapi_model.v1.skill.interaction_model.version.links.links_attribute), 460

deserialized_types (ask_smapi_model.v1.skill.interaction_model.is_in_set.IsInSet_ask_smapi_model.v1.skill.interaction_model.version.list_response_attribute), 460

deserialized_types (ask_smapi_model.v1.skill.interaction_model.is_less_than.IsLessThan_ask_smapi_model.v1.skill.interaction_model.version.value_schema_attribute), 461

deserialized_types (ask_smapi_model.v1.skill.interaction_model.is_less_than.IsLessThan_ask_smapi_model.v1.skill.interaction_model.version.value_schema_attribute), 461

deserialized_types (ask_smapi_model.v1.skill.interaction_model.is_not_in_duration_ask_smapi_model.v1.skill.interaction_model.version.version_data_attribute), 462

deserialized_types (ask_smapi_model.v1.skill.interaction_model.is_not_in_set.IsNotInSet_ask_smapi_model.v1.skill.interaction_model.version.version_item_attribute), 462

deserialized_types (ask_smapi_model.v1.skill.interaction_model.language_model_ask_smapi_model.v1.skill.list_skill_response.ListSkillResponse_attribute), 463

deserialized_types (ask_smapi_model.v1.skill.interaction_model.prompt.Prompt_ask_smapi_model.v1.skill.manifest.alex_for_business_apis.AlexaManifestAttribute), 464

deserialized_types (ask_smapi_model.v1.skill.interaction_model.prompt_items.PromptItems_ask_smapi_model.v1.skill.manifest.alex_for_business_interface.AlexaManifestAttribute), 464

deserialized_types (ask_smapi_model.v1.skill.interaction_model.slot_definition.SlotDefinition_ask_smapi_model.v1.skill.manifest.alex_presentation_apl_interface.AlexaManifestAttribute), 465

deserialized_types (ask_smapi_model.v1.skill.interaction_model.slot_type.SlotType_ask_smapi_model.v1.skill.manifest.audio_interface.AudioInterfaceAttribute), 466

deserialized_types (ask_smapi_model.v1.skill.interaction_model.slot_validation.SlotValidation_ask_smapi_model.v1.skill.manifest.connections.ConnectionsAttribute), 467

deserialized_types (ask_smapi_model.v1.skill.interaction_model.value_catalog_value_catalog_ask_smapi_model.v1.skill.manifest.connections_payload.ConnectionsPayloadAttribute), 467

deserialized_types (ask_smapi_model.v1.skill.interaction_model.value_supplier.ValueSupplier_ask_smapi_model.v1.skill.manifest.custom_apis.CustomApisAttribute), 468

deserialized_types

<code>(ask_smapi_model.v1.skill.manifest.custom_connections.CustomConnectionsAttribute)</code> , 472	<code>(ask_smapi_model.v1.skill.manifest.localized_health_info.LocalizedHealthInfoAttribute)</code> , 499
deserialized_types <code>(ask_smapi_model.v1.skill.manifest.custom_interface.CustomInterfaceAttribute)</code> , 472	deserialized_types <code>(ask_smapi_model.v1.skill.manifest.localized_music_info.LocalizedMusicInfoAttribute)</code> , 500
deserialized_types <code>(ask_smapi_model.v1.skill.manifest.display_interface.DisplayInterfaceAttribute)</code> , 473	deserialized_types <code>(ask_smapi_model.v1.skill.manifest.manifest_gadget_support.ManifestGadgetSupportAttribute)</code> , 501
deserialized_types <code>(ask_smapi_model.v1.skill.manifest.event_name.EventNameAttribute)</code> , 482	deserialized_types <code>(ask_smapi_model.v1.skill.manifest.music_alias.MusicAliasAttribute)</code> , 501
deserialized_types <code>(ask_smapi_model.v1.skill.manifest.event_publications.EventPublicationsAttribute)</code> , 490	deserialized_types <code>(ask_smapi_model.v1.skill.manifest.music_apis.MusicApisAttribute)</code> , 502
deserialized_types <code>(ask_smapi_model.v1.skill.manifest.flash_briefing_apis.FlashBriefingApisAttribute)</code> , 491	deserialized_types <code>(ask_smapi_model.v1.skill.manifest.music_capability.MusicCapabilityAttribute)</code> , 502
deserialized_types <code>(ask_smapi_model.v1.skill.manifest.gadget_controller_interface.GadgetControllerInterfaceAttribute)</code> , 492	deserialized_types <code>(ask_smapi_model.v1.skill.manifest.music_content_type.MusicContentTypeAttribute)</code> , 503
deserialized_types <code>(ask_smapi_model.v1.skill.manifest.game_engine_interface.GameEngineInterfaceAttribute)</code> , 493	deserialized_types <code>(ask_smapi_model.v1.skill.manifest.music_feature.MusicFeatureAttribute)</code> , 503
deserialized_types <code>(ask_smapi_model.v1.skill.manifest.health_alias.HealthAliasAttribute)</code> , 493	deserialized_types <code>(ask_smapi_model.v1.skill.manifest.music_interfaces.MusicInterfacesAttribute)</code> , 504
deserialized_types <code>(ask_smapi_model.v1.skill.manifest.health_apis.HealthApisAttribute)</code> , 494	deserialized_types <code>(ask_smapi_model.v1.skill.manifest.music_request.MusicRequestAttribute)</code> , 504
deserialized_types <code>(ask_smapi_model.v1.skill.manifest.health_interface.HealthInterfaceAttribute)</code> , 495	deserialized_types <code>(ask_smapi_model.v1.skill.manifest.music_wordmark.MusicWordmarkAttribute)</code> , 504
deserialized_types <code>(ask_smapi_model.v1.skill.manifest.health_request.HealthRequestAttribute)</code> , 495	deserialized_types <code>(ask_smapi_model.v1.skill.manifest.permission_items.PermissionItemsAttribute)</code> , 505
deserialized_types <code>(ask_smapi_model.v1.skill.manifest.house_hold_list.HouseHoldListAttribute)</code> , 496	deserialized_types <code>(ask_smapi_model.v1.skill.manifest.region.RegionAttribute)</code> , 506
deserialized_types <code>(ask_smapi_model.v1.skill.manifest.interface.InterfaceAttribute)</code> , 497	deserialized_types <code>(ask_smapi_model.v1.skill.manifest.request.RequestAttribute)</code> , 507
deserialized_types <code>(ask_smapi_model.v1.skill.manifest.lambda_endpoint.LambdaEndpointAttribute)</code> , 497	deserialized_types <code>(ask_smapi_model.v1.skill.manifest.skill_manifest.SkillManifestAttribute)</code> , 508
deserialized_types <code>(ask_smapi_model.v1.skill.manifest.lambda_region.LambdaRegionAttribute)</code> , 497	deserialized_types <code>(ask_smapi_model.v1.skill.manifest.skill_manifest_apis.SkillManifestApisAttribute)</code> , 509
deserialized_types <code>(ask_smapi_model.v1.skill.manifest.localized_flash_briefing_info.LocalizedFlashBriefingInfoAttribute)</code> , 498	deserialized_types <code>(ask_smapi_model.v1.skill.manifest_custom_task.SkillManifestCustomTaskAttribute)</code> , 509
deserialized_types <code>(ask_smapi_model.v1.skill.manifest.localized_flash_briefing_info.LocalizedFlashBriefingInfoAttribute)</code> , 499	deserialized_types <code>(ask_smapi_model.v1.skill.manifest_endpoint.SkillManifestEndpointAttribute)</code> , 510
deserialized_types	deserialized_types

<code>(ask_smapi_model.v1.skill.manifest.skill_manifest_envelope.SkillManifestEnvelope)</code>	<code>(ask_smapi_model.v1.skill.manifest.skill_manifest_envelope.SkillManifestEnvelope)</code>
attribute), 510	attribute), 543
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.manifest.skill_manifest_events.SkillManifestEvents)</code>	<code>(ask_smapi_model.v1.skill.resource_import_status.ResourceImportStatus)</code>
attribute), 511	attribute), 544
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.manifest.skill_manifest_localized_skill_manifest.LocalizedSkillManifest)</code>	<code>(ask_smapi_model.v1.skill.manifest.skill_manifest_localized_skill_manifest.LocalizedSkillManifest)</code>
attribute), 511	attribute), 525
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.manifest.skill_manifest_localized_skill_manifest.LocalizedSkillManifest)</code>	<code>(ask_smapi_model.v1.skill.manifest.skill_manifest_localized_skill_manifest.LocalizedSkillManifest)</code>
attribute), 512	attribute), 525
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.manifest.skill_manifest_privacy_policy.PrivacyPolicy)</code>	<code>(ask_smapi_model.v1.skill.manifest_privacy_policy.PrivacyPolicy)</code>
attribute), 513	attribute), 526
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.manifest.skill_manifest_publishing_info.PublishingInfo)</code>	<code>(ask_smapi_model.v1.skill.manifest_publishing_info.PublishingInfo)</code>
attribute), 515	attribute), 526
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.manifest.smart_home_apis.SmartHomeApis)</code>	<code>(ask_smapi_model.v1.skill.simulations.input.Input)</code>
attribute), 515	attribute), 527
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.manifest.up_channel_items.UpChannelItems)</code>	<code>(ask_smapi_model.v1.skill.simulations.invocation_request.InvocationRequest)</code>
attribute), 516	attribute), 527
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.manifest.video_apis.VideoApis)</code>	<code>(ask_smapi_model.v1.skill.simulations.invocation_response.InvocationResponse)</code>
attribute), 517	attribute), 527
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.manifest.video_apis_locale.VideoApisLocale)</code>	<code>(ask_smapi_model.v1.skill.simulations.metrics.Metrics)</code>
attribute), 518	attribute), 528
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.manifest.video_app_interface.VideoAppInterface)</code>	<code>(ask_smapi_model.v1.skill.simulations.session.Session)</code>
attribute), 518	attribute), 528
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.manifest.video_catalog_info.VideoCatalogInfo)</code>	<code>(ask_smapi_model.v1.skill.simulations.simulation_result.SimulationResult)</code>
attribute), 518	attribute), 529
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.manifest.video_country_info.VideoCountryInfo)</code>	<code>(ask_smapi_model.v1.skill.simulations.simulations_api_request.SimulationsApiRequest)</code>
attribute), 519	attribute), 529
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.manifest.video_region.VideoRegion)</code>	<code>(ask_smapi_model.v1.skill.simulations.simulations_api_response.SimulationsApiResponse)</code>
attribute), 519	attribute), 530
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.manifest.viewport_specification.ViewportSpecification)</code>	<code>(ask_smapi_model.v1.skill.skill_interaction_model_status.SkillInteractionModelStatus)</code>
attribute), 521	attribute), 545
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.metrics.get_metric_data_response.GetMetricDataResponse)</code>	<code>(ask_smapi_model.v1.skill.status.SkillStatus)</code>
attribute), 521	attribute), 546
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.private.list_private_distribution_accounts_response.ListPrivateSkillDistributionsResponse)</code>	<code>(ask_smapi_model.v1.skill.status.SkillStatusResponse)</code>
attribute), 524	attribute), 546
<code>deserialized_types</code>	<code>deserialized_types</code>
<code>(ask_smapi_model.v1.skill.private.private_distribution_account.PrivateDistributionAccount)</code>	<code>(ask_smapi_model.v1.skill.ssl_certificate_payload.SSLCertificatePayload)</code>
attribute), 524	attribute), 547
<code>deserialized_types</code>	<code>deserialized_types</code>

(ask_smapi_model.v1.skill.standardized_error.StandardizedError attribute), 523

attribute), 548

development (ask_smapi_model.v1.stage_type.StageType attribute), 557

deserialized_types (ask_smapi_model.v1.skill.submit_skill_for_certification_request(SkillSubmitForCertificationRequestV2Type.StageV2Type attribute), 549

deserialized_types DeviationRecognizer (class in ask_sdk_model.interfaces.system.error_type.ErrorType attribute), 549

deserialized_types (ask_smapi_model.v1.skill.upload_skill_with_package_request(UploadSkillWithPackageRequestV2Type.StageV2Type attribute), 549

deserialized_types Device (class in ask_sdk_model.device), 313

(ask_smapi_model.v1.skill.upload_response.UploadResponseV2Type.StageV2Type attribute), 550

deserialized_types DEVICE_COMMUNICATION_ERROR

(ask_smapi_model.v1.skill.validation_details.ValidationDetails attribute), 553

deserialized_types DEVICE_COMMUNICATION_ERROR

(ask_smapi_model.v1.skill.validation_endpoint.ValidationEndpoint attribute), 553

deserialized_types (ask_smapi_model.v1.skill.validation_feature.ValidationFeature attribute), 554

deserialized_types (ask_smapi_model.v1.skill.validations.response_validation.ResponseValidation attribute), 531

deserialized_types (ask_smapi_model.v1.skill.validations.validations_device_address_validation.DeviceAddressValidation attribute), 532

deserialized_types (ask_smapi_model.v1.skill.validations.validations_device_address_validation.DeviceAddressValidation attribute), 533

deserialized_types (ask_smapi_model.v1.skill.validations.validations_device_address_validation.DeviceAddressValidation attribute), 533

deserialized_types (ask_smapi_model.v1.skill.validations.validations_device_address_validation.DeviceAddressValidation attribute), 533

deserialized_types Dialog_ConfirmIntent

(ask_smapi_model.v1.skill.withdraw_request.WithdrawRequest attribute), 554

deserialized_types Dialog_ConfirmIntent

(ask_smapi_model.v1.vendor_management.vendor.Vendor attribute), 555

deserialized_types Dialog_ConfirmSlot

(ask_smapi_model.v1.vendor_management.vendors.Vendors attribute), 555

Destination (class in Dialog_ConfirmSlot

ask_sdk_model.interfaces.amazonpay.model.response.destination(destination) attribute), 141

Destination (class in Dialog_ElicitSlot

ask_sdk_model.interfaces.amazonpay.model.v1.destination(destination) attribute), 150

DEVELOPMENT (ask_sdk_model.services.proactive_events.skill_stage.SkillStage attribute), 277

development (ask_smapi_model.v1.isp.stage.Stage attribute), 406

Development (ask_smapi_model.v1.skill.history.publication_status(publication_status) attribute), 441

development (ask_smapi_model.v1.skill.metrics.stage_for_metric.StageForMetric (class in

<code>ask_smapl_model.v1.skill.evaluations.dialog_act</code>),	311
429	discriminator_value_class_map
DialogAct (class in	(ask_sdk_model.directive.Directive attribute),
<code>ask_smapl_model.v1.skill.history.dialog_act</code>),	316
436	discriminator_value_class_map
dialogAct_name (ask_smapl_model.v1.skill.history.sort_field_for	(ask_sdk_model.request_type.SortFieldForPresentationType.stylized_property), 441
DialogActName (class in	discriminator_value_class_map
<code>ask_smapl_model.v1.skill.history.dialog_act_name</code>),	(ask_sdk_model.interfaces.alexa.presentation.apl.command.Command attribute), 86
436	
DialogActType (class in	discriminator_value_class_map
<code>ask_smapl_model.v1.skill.evaluations.dialog_act_type</code>),	(ask_sdk_model.interfaces.alexa.presentation.apl.command.Command attribute), 115
429	
DialogIntents (class in	discriminator_value_class_map
<code>ask_smapl_model.v1.skill.interaction_model.dialog_intents</code>),	(ask_sdk_model.interfaces.amazonpay.model.request.base_amazonpay_request_type.SortFieldForPresentationType.stylized_property), 132
454	
DialogIntentsPrompts (class in	discriminator_value_class_map
<code>ask_smapl_model.v1.skill.interaction_model.dialog_intents_prompts</code>),	(ask_sdk_model.interfaces.connections.entities.base_entity.BaseEntity attribute), 174
455	
DialogPrompts (class in	discriminator_value_class_map
<code>ask_smapl_model.v1.skill.interaction_model.dialog_prompts</code>),	(ask_sdk_model.interfaces.connections.requests.base_request.BaseRequest attribute), 176
455	
DialogSlotItems (class in	discriminator_value_class_map
<code>ask_smapl_model.v1.skill.interaction_model.dialog_slot_items</code>),	(ask_sdk_model.interfaces.display.hint.Hint attribute), 196
456	
DialogState (class in	ask_sdk_model.dialog_state), discriminator_value_class_map
314	(ask_sdk_model.interfaces.display.template.Template attribute), 202
DIRECTION (ask_sdk_model.interfaces.viewport.keyboard.Keyboard	attribute), 228
Directive (class in	ask_sdk_model.directive), 314
Directive (class in	ask_sdk_model.services.directive.directive), discriminator_value_class_map
235	(ask_sdk_model.interfaces.viewport.size.viewport_size.ViewportSize attribute), 225
DirectiveServiceClient (class in	ask_sdk_model.services.directive.directive_service_client), discriminator_value_class_map
236	(ask_sdk_model.interfaces.viewport.typed_viewport_state.TypedViewportState attribute), 87
disabled (ask_sdk_model.interfaces.alexa.presentation.apl.component	attribute), 87
DISABLED (ask_sdk_model.interfaces.geolocation.access.Access	(ask_sdk_model.request.Request attribute), 324
attribute), 206	
DISABLED (ask_sdk_model.services.reminder_management.push_notification_status.PushNotificationStatus	attribute), 281
attribute), 281	(ask_sdk_model.services.directive.directive.Directive attribute), 236
DISASSOCIATE (ask_smapl_model.v1.skill.action.Action	attribute), 534
attribute), 534	discriminator_value_class_map
disassociate_isp_with_skill_v1 ()	(ask_sdk_model.services.game_engine.recognizer.Recognizer (ask_smapl_model.services.skill_management.skill_management_client.SkillManagementServiceClient method), 343
DISCOVERED_ISSUE (ask_smapl_model.v1.skill.reason.Reason	(ask_sdk_model.ui.card.Card attribute), 307
attribute), 543	
DiscreteViewportSize (class in	discriminator_value_class_map
<code>ask_sdk_model.interfaces.viewport.size.discrete_viewport_size</code>),	(ask_sdk_model.ui.output_speech.OutputSpeech attribute), 308
224	
discriminator_value_class_map	discriminator_value_class_map
(ask_sdk_model.cause.Cause	attribute), (ask_smapl_model.v1.skill.interaction_model.slot_validation.SlotValidation

attribute), 467
 discriminator_value_class_map
 (*ask_smapl_model.v1.skill.interaction_model.value_supplier_value_class_map*
 attribute), 468
 discriminator_value_class_map
 (*ask_smapl_model.v1.skill.manifest.interface.InterfaceAttribute*
 attribute), 497
 dispatch() (*ask_sdk_runtime.dispatch.AbstractRequestDispatcher*
 method), 3
 dispatch() (*ask_sdk_runtime.dispatch.GenericRequestDispatcher*
 method), 6
 dispatch() (*django_ask_sdk.skill_adapter.SkillAdapter*
 method), 49
 dispatch_request()
 (*flask_ask_sdk.skill_adapter.SkillAdapter*
 method), 47
 DispatchException, 13
 Display_ElementSelected
 (*ask_smapl_model.v1.skill.manifest.event_name_type.EventNameType*
 attribute), 485
 Display_UserEvent
 (*ask_smapl_model.v1.skill.manifest.event_name_type.EventNameType*
 attribute), 485
 DisplayInterface (class in *ask_sdk_dynamodb.adapter*), 35
 (*ask_smapl_model.v1.isp.distribution_countries.DistributionCountries*
 194
 attribute), 392
 DisplayInterface (class in *ask_smapl_model.v1.skill.manifest.display_interface*),
 473
 DisplayInterfaceApmlVersion (class in *ask_smapl_model.v1.skill.manifest.display_interface_apml_version*),
 473
 DisplayInterfaceTemplateVersion (class in *ask_smapl_model.v1.skill.manifest.display_interface_template_version*),
 474
 DisplayState (class in *ask_sdk_model.interfaces.display.display_state*),
 195
 DistanceUnits (class in *ask_sdk_model.services.ups.distance_units*),
 294
 DistributionCountries (class in *ask_smapl_model.v1.isp.distribution_countries*),
 390
 DistributionCountries (class in *ask_smapl_model.v1.skill.manifest.distribution_countries*),
 474
 DistributionInfo (class in *ask_smapl_model.v1.skill.certification.distribution_info*),
 425
 DistributionMode (class in *ask_smapl_model.v1.skill.manifest.distribution_mode*),
 481
 DJ (*ask_smapl_model.v1.isp.distribution_countries.DistributionCountries*
 attribute), 392
 attribute), 392
 DJ (*ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries*
 attribute), 392
 DK (*ask_smapl_model.v1.isp.distribution_countries.DistributionCountries*
 attribute), 392
 DO (*ask_smapl_model.v1.isp.distribution_countries.DistributionCountries*
 attribute), 392
 DO (*ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries*
 attribute), 476
 down (*ask_sdk_model.services.game_engine.input_event_action_type.InputEventActionType*
 attribute), 245
 DRAFT (*ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_model.v1.billing_agreement_model*), 149
 DynamicEntitiesDirective (class in *ask_sdk_model.dialog.dynamic_entities_directive*),
 392
 DynamoDbAdapter (class in *ask_sdk_dynamodb.adapter*), 35
 DZ (*ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries*
 attribute), 476
E
 EC (*ask_smapl_model.v1.isp.distribution_countries.DistributionCountries*
 attribute), 392
 EC (*ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries*
 attribute), 476
 EDITABLE (*ask_smapl_model.v1.isp.editable_state.EditableState*
 attribute), 397
 EditableState (class in *ask_smapl_model.v1.isp.editable_state*),
 397
 EE (*ask_smapl_model.v1.isp.distribution_countries.DistributionCountries*
 attribute), 392
 EE (*ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries*
 attribute), 476
 EffectsController_RequestEffectChangeRequest
 (*ask_smapl_model.v1.skill.manifest.event_name_type.EventNameType*
 attribute), 485
 EffectsController_RequestGuiChangeRequest
 (*ask_smapl_model.v1.skill.manifest.event_name_type.EventNameType*
 attribute), 485
 EffectsController_StateReceiptChangeRequest
 (*ask_smapl_model.v1.skill.manifest.event_name_type.EventNameType*
 attribute), 485
 EG (*ask_smapl_model.v1.isp.distribution_countries.DistributionCountries*
 attribute), 392

EG (*ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 476

EH (*ask_smapl_model.v1.isp.distribution_countries.DistributionCountries* attribute), 392

EH (*ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 476

ElementSelectedRequest (class in *ENQUEUE* (*ask_sdk_model.ui.play_behavior.PlayBehavior* *ask_sdk_model.interfaces.display.element_selected_request* attribute), 309

195

enqueue () (*ask_sdk_model.services.directive.directive_service_client.DirectiveServiceClient* method), 236

ElicitSlotDirective (class in *ask_sdk_model.dialog.elicit_slot_directive*), 70

en_AU (*ask_smapl_model.v1.skill.history.intent_request_locales.IntentRequestLocales* attribute), 439

en_AU (*ask_smapl_model.v1.skill.history.locale_in_query.LocaleInQuery* attribute), 440

en_CA (*ask_smapl_model.v1.skill.history.intent_request_locales.IntentRequestLocales* attribute), 439

en_CA (*ask_smapl_model.v1.skill.history.locale_in_query.LocaleInQuery* attribute), 440

en_GB (*ask_smapl_model.v1.skill.history.intent_request_locales.IntentRequestLocales* attribute), 439

en_GB (*ask_smapl_model.v1.skill.history.locale_in_query.LocaleInQuery* attribute), 440

en_IN (*ask_smapl_model.v1.skill.history.intent_request_locales.IntentRequestLocales* attribute), 439

en_IN (*ask_smapl_model.v1.skill.history.locale_in_query.LocaleInQuery* attribute), 440

en_US (*ask_smapl_model.v1.skill.history.intent_request_locales.IntentRequestLocales* attribute), 439

en_US (*ask_smapl_model.v1.skill.history.locale_in_query.LocaleInQuery* attribute), 440

ENABLED (*ask_sdk_model.interfaces.geolocation.access.Access* attribute), 206

ENABLED (*ask_sdk_model.services.reminder_management.push_notification_status.PushNotificationStatus* attribute), 281

end (*ask_sdk_model.services.game_engine.pattern_recognizer_anchor_type.PatternRecognizerAnchorType* attribute), 248

end_beta_test_v1 () (*ask_sdk_model.slu.entityresolution.status_code.StatusCode* attribute), 305

method), 344

ENDED (*ask_smapl_model.v1.skill.beta_test.status.Status* attribute), 422

Endpoint (class in *ask_sdk_model.interfaces.custom_interface.CustomInterface* attribute), 184

ENDPOINT_TIMEOUT (*ask_sdk_model.session_ended_error_type.SessionEndedErrorType* attribute), 327

EndpointCapability (class in *ER_SUCCESS_MATCH* (*ask_sdk_model.slu.entityresolution.status_code.StatusCode* *ask_sdk_model.services.endpoint_enumeration.endpoint_capability* attribute), 305

238

EndpointEnumerationResponse (class in *ER_SUCCESS_MATCH* (*ask_smapl_model.v1.skill.evaluations.resolutions_per_authority.ResolutionsPerAuthority* attribute), 433

239

EndpointEnumerationResponse (class in *ask_sdk_model.slu.entityresolution.status_code.StatusCode* attribute), 305

EndpointEnumerationServiceClient (class in *ask_sdk_model.slu.entityresolution.status_code.StatusCode* attribute), 305

EndpointEnumerationServiceClient (class in *ask_sdk_model.services.endpoint_enumeration.endpoint_enumeration_service_client* attribute), 305

(ask_smapi_model.v1.skill.evaluations.resolutions_per_authority_status_code.ResolutionsPerAuthorityStatusCode attribute), 433

ERROR (ask_sdk_model.interfaces.monetization.v1.purchase_result.PurchaseResult attribute), 212

ERROR (ask_sdk_model.services.monetization.status.Status attribute), 273

ERROR (ask_sdk_model.session_ended_reason.SessionEndedReason attribute), 328

Error (class in ask_sdk_model.interfaces.audioplayer.error), 166

Error (class in ask_sdk_model.interfaces.system.error), 216

Error (class in ask_sdk_model.services.device_address.error), 234

Error (class in ask_sdk_model.services.directive.error), 236

Error (class in ask_sdk_model.services.endpoint_enumeration.error), 240

Error (class in ask_sdk_model.services.list_management.error), 252

Error (class in ask_sdk_model.services.lwa.error), 264

Error (class in ask_sdk_model.services.monetization.error), 267

Error (class in ask_sdk_model.services.proactive_events.error), 275

Error (class in ask_sdk_model.services.reminder_management.error), 279

Error (class in ask_sdk_model.services.skill_messaging.error), 292

Error (class in ask_sdk_model.services.ups.error), 294

Error (class in ask_sdk_model_runtime.lwa.error), 57

Error (class in ask_smapi_model.v1.error), 556

ErrorCode (class in ask_sdk_model.interfaces.system.error_cause), 217

ErrorCode (class in ask_sdk_model.services.ups.error_code), 295

ErrorType (class in ask_sdk_model.interfaces.audioplayer.error_type), 166

ErrorType (class in ask_sdk_model.interfaces.system.error_type), 217

ES (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 392

ES (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 476

EstimationUpdate (class in ask_smapi_model.v1.skill.certification.estimate_update), 217

ET (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 392

ET (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 476

Event (class in ask_sdk_model.interfaces.custom_interface_controller.event), 180

Event (class in ask_sdk_model.services.game_engine.event), 185

Event (class in ask_sdk_model.services.proactive_events.event), 185

Event (class in ask_sdk_model.services.reminder_management.event), 279

EventFilter (class in ask_sdk_model.interfaces.custom_interface_controller.event_filter), 185

EventName (class in ask_smapi_model.v1.skill.manifest.event_name), 481

EventNameType (class in ask_smapi_model.v1.skill.manifest.event_name_type), 482

EventPublications (class in ask_smapi_model.v1.skill.manifest.event_publications), 490

EventReportingType (class in ask_sdk_model.services.game_engine.event_reporting_type), 244

EventsReceivedRequest (class in ask_sdk_model.interfaces.custom_interface_controller.events_received_request), 186

EXCEEDED_MAX_REPROMPTS (ask_sdk_model.session_ended_reason.SessionEndedReason attribute), 328

exception_handler() (ask_sdk.standard.StandardSkillBuilder method), 40

exception_handler() (ask_sdk_core.skill_builder.CustomSkillBuilder method), 25

exception_handler() (ask_sdk_core.skill_builder.SkillBuilder method), 23

exception_handler() (ask_sdk_runtime.skill_builder.AbstractSkillBuilder method), 12

ExceptionHandler (ask_sdk_runtime.dispatch_components.exception_components.ExceptionEncounteredRequest class in ask_sdk_model.interfaces.system.exception_encountered_request), 217

execute() (ask_sdk_runtime.dispatch_components.request_components.execute() method), 5

execute() (ask_sdk_runtime.dispatch_components.request_components.execute() method), 5

ExecuteCommandsDirective (class in FAILED (*ask_smapi_model.v1.skill.validations.response_validation_status* attribute), 532
ask_sdk_model.interfaces.alexa.presentation.apl.execute_commands_directive), 94
 FAILED (*ask_smapi_model.v1.skill.validations.validations_api_response_status* attribute), 534

ExecuteCommandsDirective (class in attribute), 534
ask_sdk_model.interfaces.alexa.presentation.apl.execute_commands_directive), 115
 FAILED (*ask_smapi_model.v1.skill.metrics.metric.Metric* attribute), 522

Experience (class in FI (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 392
ask_sdk_model.interfaces.viewport.experience), 228
 FI (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 392

Expiration (class in attribute), 476
ask_sdk_model.interfaces.custom_interface_controller.expiration_status (class in attribute), 187
ask_smapi_model.v1.catalog.upload.file_upload_status), 382

EXPIRED_NO_ACTION_BY_PARENT (class in attribute), 273
ask_sdk_model.services.monetization.status.StatusFilterMatchAction (class in attribute), 273

ExpiredRequest (class in 188
ask_sdk_model.interfaces.custom_interface_controller.expired_request), 187
ask_sdk_model.interfaces.audioplayer.player_activity.PlayerActivityExpiredRequest (class in attribute), 171

EXPIRY_OFFSET_IN_MILLIS first (*ask_sdk_model.interfaces.alexa.presentation.apl.align.Align* attribute), 80
ask_sdk_model.services.lwa.lwa_client.LwaClient attribute), 265
 FitnessSessionController_FitnessSessionEnded (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 485

EXPIRY_OFFSET_IN_MILLIS (*ask_sdk_model_runtime.lwa.lwa_client.LwaClient* attribute), 57
 FitnessSessionController_FitnessSessionError (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 485

EXPORT_COMPLIANCE (*ask_smapi_model.v1.skill.agreement_type.AgreementType* attribute), 535
 FitnessSessionController_FitnessSessionPaused (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 485

ExportResponse (class in attribute), 485
ask_smapi_model.v1.skill.export_response), 537
 FitnessSessionController_FitnessSessionResumed (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 485

ExportResponseSkill (class in attribute), 485
ask_smapi_model.v1.skill.export_response_skill), 538
 FitnessSessionController_FitnessSessionStarted (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 485

EXTENSION_NAME (in module attribute), 485
flask_ask_sdk.skill_adapter), 48
 FJ (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 392

F

FAHRENHEIT (*ask_sdk_model.services.ups.temperature_unit.TemperatureUnit* attribute), 296
 FJ (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 476

FAILED (*ask_smapi_model.v1.catalog.upload.ingestion_status.IngestionStatus* attribute), 384
 FK (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 392

FAILED (*ask_smapi_model.v1.catalog.upload.upload_status.UploadStatus* attribute), 386
 FK (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 476

FAILED (*ask_smapi_model.v1.skill.certification.certification_status.CertificationStatus* attribute), 424
 FK (*ask_smapi_model.v1.skill.metrics.skill_type.SkillType* attribute), 523

FAILED (*ask_smapi_model.v1.skill.interaction_model.catalog_catalog_status_type.CatalogStatusType* attribute), 445
 FK (*ask_smapi_model.v1.skill.skill_summary_apis.SkillSummaryApis* attribute), 547

FAILED (*ask_smapi_model.v1.skill.response_status.ResponseStatus* attribute), 544
 FlashBriefingApis (class in attribute), 491
ask_smapi_model.v1.skill.manifest.flash_briefing_apis), 491

FAILED (*ask_smapi_model.v1.skill.simulations.simulations_api_response_status.SimulationsApiResponseStatus* attribute), 530
 FlashBriefingContentType (class in attribute), 491
ask_smapi_model.v1.skill.manifest.flash_briefing_content_type), 491

FAILED (*ask_smapi_model.v1.skill.status.Status* attribute), 548
 FlashBriefingGenre (class in attribute), 491

ask_smapl_model.v1.skill.manifest.flash_briefing_update_frequency (class in GB (ask_smapl_model.v1.isp.distribution_countries.DistributionCountries attribute), 392)

FlashBriefingUpdateFrequency (class in GB (ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 476)

FlashBriefingUpdateFrequency (class in GB (ask_smapl_model.v1.isp.distribution_countries.DistributionCountries attribute), 392)

FM (ask_smapl_model.v1.isp.distribution_countries.DistributionCountries attribute), 392

FM (ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 476

FO (ask_smapl_model.v1.isp.distribution_countries.DistributionCountries attribute), 392

FO (ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 476

focused (ask_sdk_model.interfaces.alexa.presentation.apl.component_state.ComponentState attribute), 87

ForbiddenError (class in (ask_smapl_model.services.skill_management.skill_management_ask_sdk_model.services.list_management.forbidden_error), method), 344

FORCE_NEW_SESSION (ask_smapl_model.v1.skill.simulations.session_mode.SessionMode attribute), 528

foreground (ask_sdk_model.interfaces.alexa.presentation.apl.audible_skill_audio_trunkler_input.HandlerInput attribute), 83

FOUR_CHARACTER_CLOCK (ask_sdk_model.interfaces.alexa.presentation.apl.target_profile_skill_profile_dispatch_components.exception_components), 123

FOUR_CHARACTER_CLOCK (ask_sdk_model.interfaces.viewport.apl.viewport_profile.viewport_profile_dispatch_components.request_components), 223

FR (ask_sdk_model.services.reminder_management.recurring_day_recurring_days_dispatcher (class in ask_sdk_runtime.dispatch), 6

FR (ask_smapl_model.v1.isp.distribution_countries.DistributionCountries attribute), 392

FR (ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 476

G

GA (ask_smapl_model.v1.isp.distribution_countries.DistributionCountries attribute), 392

GA (ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 476

GadgetControllerInterface (class in ask_sdk_model.interfaces.geolocation.geolocation_state), 208

GadgetSupport (class in ask_smapl_model.v1.skill.manifest.gadget_support), 492

GameEngine_InputHandlerEvent (ask_smapl_model.v1.skill.manifest.event_name_type.EventNameType attribute), 485

GameEngineInterface (class in ask_smapl_model.v1.skill.manifest.game_engine_interface), 493

GeolocationInterface (class in ask_sdk_model.interfaces.geolocation.geolocation_interface), 208

GeolocationState (class in ask_sdk_model.interfaces.geolocation.geolocation_state), 208

GET (ask_sdk_model.interfaces.alexa.presentation.html.start_request_method), 128

get_access_token_for_scope () (ask_sdk_model.services.lwa.lwa_client.LwaClient method), 265

get_access_token_for_scope () (ask_sdk_model_runtime.lwa.lwa_client.LwaClient method), 57

get_access_token_from_refresh_token () (ask_sdk_model.services.lwa.lwa_client.LwaClient method), 265

[get_access_token_from_refresh_token\(\)](#) (*ask_sdk_model_runtime.lwa.lwa_client.LwaClient* method), 58
[get_account_linking_access_token\(\)](#) (*ask_sdk_core.utils.request_util*), 32
[get_account_linking_info_v1\(\)](#) (*ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient* method), 344
[get_alex_hosted_skill_metadata_v1\(\)](#) (*ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient* method), 345
[get_alex_hosted_skill_user_permissions_v1\(\)](#) (*ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient* method), 345
[get_annotations_for_asr_annotation_set_v1\(\)](#) (*ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient* method), 345
[get_annotations_for_nlu_annotation_sets_v1\(\)](#) (*ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient* method), 346
[get_api_access_token\(\)](#) (*ask_sdk_core.utils.request_util*), 32
[get_asr_annotation_set_v1\(\)](#) (*ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient* method), 346
[get_asr_evaluation_status_v1\(\)](#) (*ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient* method), 346
[get_attributes\(\)](#) (*ask_sdk_core.attributes_manager.AbstractPermissionsAdapter* method), 27
[get_attributes\(\)](#) (*ask_sdk_dynamodb.adapter.DynamoDbAdapter* method), 36
[get_attributes\(\)](#) (*ask_sdk_s3.adapter.S3Adapter* method), 52
[get_beta_test_v1\(\)](#) (*ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient* method), 347
[get_catalog_v0\(\)](#) (*ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient* method), 347
[get_certification_review_v1\(\)](#) (*ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient* method), 347
[get_certifications_list_v1\(\)](#) (*ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient* method), 347
[get_clone_locale_status_v1\(\)](#) (*ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient* method), 348
[get_conflict_detection_job_status_for_interaction_model_v1\(\)](#) (*ask_sdk_core.utils.request_util*), 32
[get_conflicts_for_interaction_model_v1\(\)](#) (*ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient* method), 349
[get_content_upload_by_id_v0\(\)](#) (*ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient* method), 349
[get_content_upload_by_id_v1\(\)](#) (*ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient* method), 349
[get_device_address_v1\(\)](#) (*ask_sdk_model.services.device_address.device_address_service_client.DeviceAddressServiceClient* method), 234
[get_dialog_state\(\)](#) (*ask_sdk_core.utils.request_util*), 32
[get_directive_service\(\)](#) (*ask_sdk_model.services.service_client_factory.ServiceClientFactory* method), 301
[get_dpi_group\(\)](#) (*ask_sdk_core.utils.viewport*), 31
[get_endpoint_enumeration_service\(\)](#) (*ask_sdk_model.services.service_client_factory.ServiceClientFactory* method), 239
[get_endpoints\(\)](#) (*ask_sdk_model.services.endpoint_enumeration.endpoint_enumeration_service_client.EndpointEnumerationServiceClient* method), 239
[get_handler\(\)](#) (*ask_sdk_runtime.dispatch_components.exception_component.ExceptionComponent* method), 6
[get_handler\(\)](#) (*ask_sdk_runtime.dispatch_components.exception_component.ExceptionComponent* method), 9
[get_header_value\(\)](#) (*ask_smapi_sdk.utils*), 54
[get_in_skill_product\(\)](#) (*ask_sdk_model.services.monetization.monetization_service_client.MonetizationServiceClient* method), 347
[get_in_skill_products\(\)](#) (*ask_sdk_model.services.monetization.monetization_service_client.MonetizationServiceClient* method), 347
[get_in_skill_products_transactions\(\)](#) (*ask_sdk_model.services.monetization.monetization_service_client.MonetizationServiceClient* method), 347
[get_intent_name\(\)](#) (*ask_sdk_core.utils.request_util*), 32
[get_intent_name_v1\(\)](#) (*ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient* method), 350
[get_intent_status_v1\(\)](#) (*ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient* method), 349

method), 350
 get_interaction_model_catalog_values_v1 (get_monetization_service ()
 (ask_smapi_model.services.skill_management.skill_management_service_client_factory.
 method), 350
 get_interaction_model_catalog_version_v1 (get_nlu_evaluation_v1 ()
 (ask_smapi_model.services.skill_management.skill_management_service_client_factory.
 method), 351
 get_interaction_model_metadata_v1 () get_orientation () (in module
 (ask_smapi_model.services.skill_management.skill_management_service_client_factory.
 method), 351
 get_interaction_model_slot_type_build_status_v1 (ask_sdk_core.response_helper), 19
 (ask_smapi_model.services.skill_management.skill_management_service_client_factory.
 method), 351
 get_interaction_model_slot_type_definition_v1 () method), 296
 (ask_smapi_model.services.skill_management.skill_management_service_client_factory.
 method), 352
 get_interaction_model_slot_type_version_v1 () method), 296
 (ask_smapi_model.services.skill_management.skill_management_service_client_factory.
 method), 352
 get_interaction_model_v1 () method), 296
 (ask_smapi_model.services.skill_management.skill_management_service_client_factory.
 method), 352
 get_interaction_model_version_v1 () method), 297
 (ask_smapi_model.services.skill_management.skill_management_service_client_factory.
 method), 352
 get_isp_associated_skills_v1 () method), 356
 (ask_smapi_model.services.skill_management.skill_management_service_client_factory.
 method), 353
 get_isp_definition_v1 () 311
 (ask_smapi_model.services.skill_management.skill_management_service_client_factory.
 method), 353
 get_isp_list_for_skill_id_v1 () method), 316
 (ask_smapi_model.services.skill_management.skill_management_service_client_factory.
 method), 353
 get_isp_list_for_vendor_v1 () class method), 82
 (ask_smapi_model.services.skill_management.skill_management_service_client_factory.
 method), 354
 get_isp_summary_v1 () class method), 86
 (ask_smapi_model.services.skill_management.skill_management_service_client_factory.
 method), 355
 get_list () (ask_sdk_model.services.list_management.list_management_service_client_factory.
 method), 259
 get_list_item () (ask_sdk_model.services.list_management.list_management_service_client_factory.
 method), 259
 get_list_management_service () get_real_child_model ()
 (ask_sdk_model.services.service_client_factory.ServiceClientFactory), 302
 method), 174
 get_list_of_testers_v1 () get_real_child_model ()
 (ask_smapi_model.services.skill_management.skill_management_service_client_factory.
 method), 355
 get_lists_metadata () get_real_child_model ()
 (ask_sdk_model.services.list_management.list_management_service_client_factory.
 method), 260
 get_locale () (in module get_real_child_model ()

(*ask_sdk_model.interfaces.display.template.Template class method*), 202

ask_sdk_core.response_helper), 19

get_rollback_for_skill_v1() (*ask_smapi_model.services.skill_management.skill_management_method*), 356

get_real_child_model() (*ask_sdk_model.interfaces.display.text_field.TextField class method*), 203

get_runtime_configuration() (*ask_sdk_runtime.skill.RuntimeConfigurationBuilder*), 11

get_real_child_model() (*ask_sdk_model.interfaces.viewport.size.viewport_size.ViewportSize class method*), 225

get_size() (in module *ask_sdk_core.utils.viewport*), 31

get_real_child_model() (*ask_sdk_model.interfaces.viewport.typed_viewport_state.TypedViewportState class method*), 231

get_real_child_model() (*ask_sdk_model.request.Request class method*), 324

get_skill_enablement_status_v1() (*ask_smapi_model.services.skill_management.skill_management_method*), 357

get_real_child_model() (*ask_sdk_model.services.directive.directive.Directive class method*), 236

get_skill_manifest_v1() (*ask_smapi_model.services.skill_management.skill_management_method*), 357

get_real_child_model() (*ask_sdk_model.services.game_engine.recognizer.Recognizer class method*), 249

get_skill_metrics_v1() (*ask_smapi_model.services.skill_management.skill_management_method*), 357

get_real_child_model() (*ask_sdk_model.ui.card.Card class method*), 307

get_skill_simulation_v1() (*ask_smapi_model.services.skill_management.skill_management_method*), 358

get_real_child_model() (*ask_sdk_model.ui.output_speech.OutputSpeech class method*), 308

get_skill_simulation_v2() (*ask_smapi_model.services.skill_management.skill_management_method*), 358

get_real_child_model() (*ask_smapi_model.v1.skill.interaction_model.slot_validation.SlotValidation class method*), 467

get_validation_slot_validation_v1() (*ask_smapi_model.services.skill_management.skill_management_method*), 359

get_real_child_model() (*ask_smapi_model.v1.skill.interaction_model.value_supplier.ValueSupplier class method*), 468

get_value_supplier_value_supplier_conditions_v1() (*ask_smapi_model.services.skill_management.skill_management_method*), 359

get_real_child_model() (*ask_smapi_model.v1.skill.manifest.interface.Interface class method*), 497

get_slot() (in module *ask_sdk_core.utils.request_util*), 33

get_reminder() (*ask_sdk_model.services.reminder_management.reminder_management_service_client.ReminderManagementServiceClient class method*), 286

get_reminder_management_service() (*ask_sdk_core.utils.request_util*), 33

get_reminder_management_service() (*ask_sdk_model.services.service_client_factory.ServiceClientFactory class method*), 302

get_ssl_certificates_v1() (*ask_smapi_model.services.skill_management.skill_management_method*), 360

get_reminders() (*ask_sdk_model.services.reminder_management.reminder_management_service_client.ReminderManagementServiceClient class method*), 286

get_reminder_management_service_client() (*ask_smapi_model.services.skill_management.skill_management_method*), 360

get_request_handler_chain() (*ask_sdk_runtime.dispatch_components.request_components.AbstractRequestMapper class method*), 5

get_request_handler_chain() (*ask_sdk_runtime.dispatch_components.request_components.GenericRequestMapper class method*), 8

get_request_type() (in module *ask_sdk_core.utils.request_util*), 31

get_request_type() (in module *ask_sdk_core.utils.request_util*), 34

get_result_for_nlu_evaluations_v1() (*ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient class method*), 356

get_skill_management_service_client() (*ask_sdk_model.services.ups.ups_service_client.UpsServiceClient class method*), 297

get_rich_text_content() (in module *ask_sdk_core.utils.request_util*), 31

get_system_temperature_unit() (attribute), 476
 (ask_sdk_model.services.ups.ups_service_client.UpsServiceClient (ask_sdk_model.v1.skill.alex_hosted.hosted_skill_repository.HostedSkillRepository) attribute), 297

get_system_time_zone() (attribute), 416
 (ask_sdk_model.services.ups.ups_service_client.UpsServiceClient (ask_sdk_model.v1.isp.distribution_countries.DistributionCountries) attribute), 297

get_text_content() (in module ask_sdk_core.response_helper), 19 (attribute), 476

get_timer_management_service() (ask_sdk.standard.StandardSkillBuilder) (attribute), 41

get_ups_service() (ask_sdk_model.services.service_client_factory.ServiceClientFactory) (attribute), 25
 (ask_sdk_model.services.service_client_factory.ServiceClientFactory) (attribute), 302

get_user_id() (in module ask_sdk_core.skill_builder.SkillBuilder) (ask_sdk_core.skill_builder.SkillBuilder) (method), 23
 (ask_sdk_core.utils.request_util), 34

get_utterance_data_v1() (ask_sdk_runtime.skill_management.skill_management) (ask_sdk_runtime.skill_management.skill_management) (method), 13
 (ask_sdk_model.services.skill_management.skill_management) (ask_sdk_runtime.skill_management.skill_management) (method), 360

get_vendor_list_v1() (ask_sdk_model.services.skill_management.skill_management) (ask_sdk_model.services.skill_management.skill_management) (method), 41
 (ask_sdk_model.services.skill_management.skill_management) (ask_sdk_model.services.skill_management.skill_management) (method), 362

get_viewport_profile() (in module ask_sdk_core.skill_builder.SkillBuilder) (ask_sdk_core.skill_builder.SkillBuilder) (method), 25
 (ask_sdk_core.utils.viewport), 31

get_voice_purchase_setting() (ask_sdk_model.services.monetization.monetization_service_client.MonetizationServiceClient) (ask_sdk_core.skill_builder.SkillBuilder) (method), 271
 (ask_sdk_model.services.monetization.monetization_service_client.MonetizationServiceClient) (ask_sdk_core.skill_builder.SkillBuilder) (method), 23

GetContentUploadResponse (class in ask_sdk_model.v1.catalog.upload.get_content_upload_response) (ask_sdk_runtime.skill_builder.AbstractSkillBuilder) (method), 13
 383

GetMetricDataResponse (class in ask_sdk_model.v1.skill.metrics.get_metric_data_response) (ask_sdk_model.v1.isp.distribution_countries.DistributionCountries) (method), 13
 521

GetReminderResponse (class in ask_sdk_model.services.reminder_management.get_reminder_response) (ask_sdk_model.v1.skill.manifest.distribution_countries.DistributionCountries) (method), 476
 280

GetRemindersResponse (class in ask_sdk_model.services.reminder_management.get_reminders_response) (ask_sdk_model.v1.isp.distribution_countries.DistributionCountries) (method), 393
 280

GF (ask_sdk_model.v1.isp.distribution_countries.DistributionCountries) (ask_sdk_model.v1.isp.distribution_countries.DistributionCountries) (attribute), 392

GF (ask_sdk_model.v1.skill.manifest.distribution_countries.DistributionCountries) (ask_sdk_model.v1.skill.manifest.distribution_countries.DistributionCountries) (attribute), 476

GG (ask_sdk_model.v1.isp.distribution_countries.DistributionCountries) (ask_sdk_model.v1.isp.distribution_countries.DistributionCountries) (attribute), 392

GG (ask_sdk_model.v1.skill.manifest.distribution_countries.DistributionCountries) (ask_sdk_model.v1.skill.manifest.distribution_countries.DistributionCountries) (attribute), 476

GH (ask_sdk_model.v1.isp.distribution_countries.DistributionCountries) (ask_sdk_model.v1.isp.distribution_countries.DistributionCountries) (attribute), 392

GH (ask_sdk_model.v1.skill.manifest.distribution_countries.DistributionCountries) (ask_sdk_model.v1.skill.manifest.distribution_countries.DistributionCountries) (attribute), 476

GI (ask_sdk_model.v1.isp.distribution_countries.DistributionCountries) (ask_sdk_model.permission_status.PermissionStatus) (attribute), 319
 392

GI (ask_sdk_model.v1.skill.manifest.distribution_countries.DistributionCountries) (ask_sdk_model.v1.isp.distribution_countries.DistributionCountries) (attribute), 476

attribute), 393
 GS (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 477
 GT (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 393
 GT (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 477
 GU (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 393
 GU (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 477
 GW (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 393
 GW (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 477
 GY (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 393
 GY (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 477
H
 H_264_41 (*ask_sdk_model.interfaces.viewport.video.codecs.Codecs* attribute), 226
 H_264_42 (*ask_sdk_model.interfaces.viewport.video.codecs.Codecs* attribute), 226
 handle() (*ask_sdk_core.dispatch_components.exception_components.AbstractExceptionHandler* method), 17
 handle() (*ask_sdk_core.dispatch_components.request_components.AbstractRequestHandler* method), 16
 handle() (*ask_sdk_runtime.dispatch_components.exception_components.AbstractExceptionHandler* method), 5
 handle() (*ask_sdk_runtime.dispatch_components.request_components.AbstractRequestHandler* method), 4
 HandleMessageDirective (class in *ask_sdk_model.interfaces.alexa.presentation.html.handle_message_directive*), 125
 HandlerInput (class in *ask_sdk_core.handler_input*), 15
 HasEntityResolutionMatch (class in *ask_smapi_model.v1.skill.interaction_model.has_entity_resolution_match*), 456
 Header (class in *ask_sdk_model.interfaces.custom_interface_controller.header*), 188
 Header (class in *ask_sdk_model.services.directive.header*), 237
 Heading (class in *ask_sdk_model.interfaces.geolocation.heading*), 209
 HEADLINE_NEWS (*ask_smapi_model.v1.skill.manifest.flash_briefing_genre.HeadlineNews* attribute), 492
 health (*ask_smapi_model.v1.skill.skill_summary_apis.SkillSummaryApis* attribute), 547
 HEALTH_AND_FITNESS (*ask_smapi_model.v1.skill.manifest.flash_briefing_genre.HealthAndFitness* attribute), 492
 HealthAlias (class in *ask_smapi_model.v1.skill.manifest.health_alias*), 493
 HealthCountries (class in *ask_smapi_model.v1.skill.manifest.health_apis*), 494
 HealthInterface (class in *ask_smapi_model.v1.skill.manifest.health_interface*), 494
 HealthProtocolVersion (class in *ask_smapi_model.v1.skill.manifest.health_protocol_version*), 495
 HealthRequest (class in *ask_smapi_model.v1.skill.manifest.health_request*), 495
 HealthResponse (class in *ask_sdk_model.interfaces.display.back_button_behavior.BackButtonBehavior* attribute), 191
 HIGH (*ask_smapi_model.v1.skill.history.confidence_bin.ConfidenceBin* attribute), 436
 HIGH (*ask_smapi_model.v1.skill.history.intent_confidence_bin.IntentConfidenceBin* attribute), 437
 HighlightMode (class in *ask_sdk_model.interfaces.alexa.presentation.apl.highlight_mode*), 95
 Hint (class in *ask_sdk_model.interfaces.display.hint*), 196
 HintDirectiveRequestHandler (class in *ask_sdk_model.interfaces.display.hint_directive*), 196
 history (*ask_sdk_model.services.game_engine.event_reporting_type.EventReportingType* attribute), 244
 HK (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 393
 HK (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 477
 HM (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 393
 HM (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 477
 HN (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 393
 HN (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 477
 horizontal (*ask_sdk_model.interfaces.alexa.presentation.apl.component* attribute), 92
 HostedSkillInfo (class in *ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_info*), 414
 HostedSkillMetadata (class in *ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_metadata*), 414
 HostedSkillPermission (class in *ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_permission*), 414

415 HUB (*ask_smap_i_model.v1.skill.manifest.viewport_mode.ViewportMode*
HostedSkillPermissionStatus (class in attribute), 519
ask_smap_i_model.v1.skill.alex_a_hosted.hosted_skill_repository_credentials)
415 (ask_sdk_core.utils.viewport.ViewportProfile
HostedSkillPermissionType (class in attribute), 30
ask_smap_i_model.v1.skill.alex_a_hosted.hosted_skill_repository_credentials).MEDIUM
416 (ask_sdk_core.utils.viewport.ViewportProfile
HostedSkillRepository (class in attribute), 30
ask_smap_i_model.v1.skill.alex_a_hosted.hosted_skill_repository_credentials)
416 (ask_sdk_core.utils.viewport.ViewportProfile
HostedSkillRepositoryCredentials (class in attribute), 30
ask_smap_i_model.v1.skill.alex_a_hosted.hosted_skill_repository_credentials).SMALL
416 (ask_sdk_core.utils.viewport.ViewportProfile
HostedSkillRepositoryCredentialsList (class in attribute), 30
ask_smap_i_model.v1.skill.alex_a_hosted.hosted_skill_repository_credentials).SMALL
416 (ask_sdk_core.utils.viewport.ViewportProfile
HostedSkillRepositoryCredentialsList (class in attribute), 30
ask_smap_i_model.v1.skill.alex_a_hosted.hosted_skill_repository_credentials).SMALL
417 HUROR (*ask_smap_i_model.v1.skill.manifest.flash_briefing_genre.FlashBriefingGenre*)
HostedSkillRepositoryCredentialsRequest (class in *ask_smap_i_model.v1.skill.alex_a_hosted.hosted_skill_repository_credentials_request*)
417 (ask_sdk_core.utils.viewport.ViewportProfile).LARGE
HostedSkillRepositoryInfo (class in ID (*ask_smap_i_model.v1.skill.manifest.distribution_countries.DistributionCountries*
ask_smap_i_model.v1.skill.alex_a_hosted.hosted_skill_repository_info), 477
417 attribute), 393
HostedSkillRuntime (class in idle (*ask_sdk_model.interfaces.alex_a_presentation.apl.component_visible*
ask_smap_i_model.v1.skill.alex_a_hosted.hosted_skill_runtime), 90
418 (*ask_sdk_model.interfaces.audioplayer.player_activity.PlayerActivity*)
HOURLY (*ask_smap_i_model.v1.skill.manifest.flash_briefing_update_frequency.FlashBriefingUpdateFrequency* in
attribute), 492 *ask_sdk_model.interfaces.alex_a_presentation.apl.idle_command*),
householdList (*ask_smap_i_model.v1.skill.skill_summary_apis.SkillSummaryApis*
attribute), 547
HouseHoldList (class in IdleCommand (class in
ask_smap_i_model.v1.skill.manifest.house_hold_list), 116
496 *ask_sdk_model.interfaces.alex_a_presentation.apl.idle_command*)
HR (*ask_smap_i_model.v1.isp.distribution_countries.DistributionCountries*
attribute), 393
496 IE (*ask_smap_i_model.v1.isp.distribution_countries.DistributionCountries*
HR (*ask_smap_i_model.v1.skill.manifest.distribution_countries.DistributionCountries*
attribute), 477
496 IE (*ask_smap_i_model.v1.skill.manifest.distribution_countries.DistributionCountries*
HT (*ask_smap_i_model.v1.isp.distribution_countries.DistributionCountries*
attribute), 393
496 IL (*ask_smap_i_model.v1.isp.distribution_countries.DistributionCountries*
HT (*ask_smap_i_model.v1.skill.manifest.distribution_countries.DistributionCountries*
attribute), 477
496 IL (*ask_smap_i_model.v1.skill.manifest.distribution_countries.DistributionCountries*
HTTP_BASIC (*ask_smap_i_model.v1.skill.account_linking.access_token_scheme_type.AccessTokenSchemeType*
attribute), 410
496 IM (*ask_smap_i_model.v1.isp.distribution_countries.DistributionCountries*
http_method_names (attribute), 477
496 IM (*ask_smap_i_model.v1.skill.manifest.distribution_countries.DistributionCountries*
(*django_ask_sdk.skill_adapter.SkillAdapter* attribute), 49
496 Image (class in *ask_sdk_model.interfaces.display.image*),
http_method_not_allowed() Image (class in *ask_sdk_model.ui.image*), 307
496 (*django_ask_sdk.skill_adapter.SkillAdapter* ImageAttributes (class in
method), 49 *ask_smap_i_model.v1.skill.image_attributes*),
496 HU (*ask_smap_i_model.v1.isp.distribution_countries.DistributionCountries*
attribute), 393
496 ImageDimension (class in
HU (*ask_smap_i_model.v1.skill.manifest.distribution_countries.DistributionCountries*
attribute), 477 *ask_smap_i_model.v1.skill.image_dimension*),
539
HUB (*ask_sdk_model.interfaces.viewport.mode.Mode* at- ImageInstance (class in
tribute), 229 *ask_sdk_model.interfaces.display.image_instance*),

197				attribute), 485
ImageSize	(class	in	INCOMPLETE (ask_smapi_model.v1.isp.status.Status attribute), 407	
ask_sdk_model.interfaces.display.image_size),				
197			incompleteSessions	
ImageSize	(class	in	(ask_smapi_model.v1.skill.metrics.metric.Metric attribute), 522	
ask_smapi_model.v1.skill.image_size), 539				
ImageSizeUnit	(class	in	INFORMATION_SERVICES	
ask_smapi_model.v1.skill.image_size_unit),			(ask_smapi_model.v1.isp.tax_information_category.TaxInformation attribute), 409	
540				
IMPERIAL (ask_sdk_model.services.ups.distance_units.DistanceUnits attribute), 294			IngestionStepName (class in ask_smapi_model.v1.catalog.upload.ingestion_status),	
IMPLICIT (ask_smapi_model.v1.skill.account_linking.account_linking_type.AccountLinkingType attribute), 413			IngestionStepName (class in ask_smapi_model.v1.catalog.upload.ingestion_step_name),	
import_skill_package_v1 ()			init_app () (flask_ask_sdk.skill_adapter.SkillAdapter method), 47	
(ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient method), 362			Input (class in ask_smapi_model.v1.skill.simulations.input),	
ImportResponse	(class	in	526	
ask_smapi_model.v1.skill.import_response),			InputEvent (class in ask_sdk_model.services.game_engine.input_event),	
540			245	
ImportResponseSkill	(class	in	InputHandlerEvent (class in ask_sdk_model.services.game_engine.input_event_action_type),	
ask_smapi_model.v1.skill.import_response_skill),			245	
540			InputHandlerEventRequest (class in ask_sdk_model.interfaces.game_engine.input_handler_event_req),	
IN (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 393			InputSource (class in ask_smapi_model.v1.skill.interaction_model.version.input_source),	
IN (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 477			449	
IN_DRAFT (ask_smapi_model.v1.skill.beta_test.status.Status attribute), 422			InputSource (class in ask_sdk_model.v1.skill.interaction_model.version.input_source),	
IN_PROGRESS (ask_sdk_model.dialog_state.DialogState attribute), 314			449	
IN_PROGRESS (ask_smapi_model.v1.catalog.upload.ingestion_status.ingestion_status attribute), 384			InputSource (class in ask_sdk_model.v1.skill.interaction_model.version.input_source),	
IN_PROGRESS (ask_smapi_model.v1.catalog.upload.upload_status.upload_status attribute), 386			449	
IN_PROGRESS (ask_smapi_model.v1.skill.certification.certification_status.CertificationStatus attribute), 424			InputSource (class in ask_sdk_model.v1.skill.interaction_model.version.input_source),	
IN_PROGRESS (ask_smapi_model.v1.skill.interaction_model.catalog_status_type.CatalogStatusType attribute), 445			449	
IN_PROGRESS (ask_smapi_model.v1.skill.response_status.ResponseStatus attribute), 544			InSkillProduct (class in ask_sdk_model.services.monetization.in_skill_product),	
IN_PROGRESS (ask_smapi_model.v1.skill.simulations.simulations_api_response_status.SimulationsApiResponseStatus attribute), 530			267	
IN_PROGRESS (ask_smapi_model.v1.skill.status.Status attribute), 548			InSkillProductDefinitionResponse (class in ask_sdk_model.interfaces.monetization.v1.in_skill_product),	
IN_PROGRESS (ask_smapi_model.v1.skill.validations.validations_api_response_status.ValidationSkillProductDefinitionResponse attribute), 534			399	
IN_SKILL_PRODUCT_SUBSCRIPTION_ENDED			InSkillProductsResponse (class in ask_sdk_model.services.monetization.in_skill_products_response),	
(ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 485			269	
IN_SKILL_PRODUCT_SUBSCRIPTION_RENEWED			InSkillProductSummary (class in ask_smapi_model.v1.isp.in_skill_product_summary),	
(ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 485			399	
IN_SKILL_PRODUCT_SUBSCRIPTION_STARTED			InSkillProductSummaryResponse (class in ask_smapi_model.v1.isp.in_skill_product_summary_response),	
(ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 485				

400 (ask_sdk_model.interfaces.system.error_type.ErrorType attribute), 217

InSkillProductTransactionsResponse (class in ask_sdk_model.services.monetization.in_skill_product_transactions_response_type.ErrorType), 268

(ask_sdk_model.session_ended_error_type.SessionEndedErrorType attribute), 327

Instance (class in ask_smapl_model.v1.skill.instance), 541

InterSegment (class in ask_sdk_model.interfaces.viewport.aplt.inter_segment), 223

integer (ask_smapl_model.v1.skill.validation_data_types.ValidationDataType attribute), 550

Intent (class in ask_sdk_model.intent), 317

INVALID_KEY (ask_sdk_model.services.ups.error_code.ErrorCode attribute), 295

Intent (class in ask_smapl_model.v1.skill.evaluations.intent), 430

INVALID_RESPONSE (ask_sdk_model.interfaces.system.error_type.ErrorType attribute), 217

Intent (class in ask_smapl_model.v1.skill.history.intent), 437

INVALID_RESPONSE (ask_sdk_model.session_ended_error_type.SessionEndedErrorType attribute), 327

Intent (class in ask_smapl_model.v1.skill.interaction_model.intent), 457

INVALID_TOKEN (ask_sdk_model.services.ups.error_code.ErrorCode attribute), 295

intent_confidence_bin (ask_smapl_model.v1.skill.history.sort_field_for_intent_request_type.SortFieldForIntentRequestType attribute), 441

INVALID_REQUEST (ask_sdk_model.interfaces.system.error_type.ErrorCode attribute), 295

intent_name (ask_smapl_model.v1.skill.history.sort_field_for_intent_request_type.SortFieldForIntentRequestType attribute), 441

INVALID_REQUEST (ask_sdk_model.interfaces.system.error_type.ErrorCode attribute), 295

IntentConfidenceBin (class in ask_smapl_model.v1.skill.history.intent_confidence_bin), 437

InvitationStatus (class in ask_smapl_model.v1.skill.beta_test.testers.invitation_status), 419

IntentConfirmationStatus (class in ask_sdk_model.intent_confirmation_status), 317

InvocationRequest (class in ask_smapl_model.v1.skill.simulations.invocation_request), 527

IntentRequest (class in ask_sdk_model.intent_request), 318

InvocationResponse (class in ask_smapl_model.v1.skill.simulations.invocation_response), 527

IntentRequest (class in ask_smapl_model.v1.skill.history.intent_request), 438

invoke () (ask_sdk_core.api_client.DefaultApiClient method), 27

IntentRequestLocales (class in ask_smapl_model.v1.skill.history.intent_request_locales), 439

invoke () (ask_sdk_core.skill.CustomSkill method), 21

invoke () (ask_sdk_model.services.api_client.ApiClient method), 298

IntentRequests (class in ask_smapl_model.v1.skill.history.intent_requests), 439

invoke () (ask_sdk_model.services.base_service_client.BaseServiceClient method), 300

invoke () (ask_sdk_model_runtime.api_client.ApiClient method), 58

InteractionModelData (class in ask_smapl_model.v1.skill.interaction_model.interaction_model_data), 458

invoke () (ask_sdk_model_runtime.api_client.DefaultApiClient method), 58

InteractionModelSchema (class in ask_smapl_model.v1.skill.interaction_model.interaction_model_schema), 458

invoke () (ask_sdk_model_runtime.base_service_client.BaseServiceClient method), 300

invoke () (ask_sdk_runtime.skill.AbstractSkill method), 21

interactionType (ask_smapl_model.v1.skill.history.sort_field_for_intent_request_type.SortFieldForIntentRequestType attribute), 441

invoke_skill_end_point_v2 () (ask_smapl_model.services.skill_management.skill_management method), 362

InteractionType (class in ask_smapl_model.v1.skill.history.interaction_type), 440

invoke_skill_v1 () (ask_smapl_model.services.skill_management.skill_management method), 362

Interface (class in ask_smapl_model.v1.skill.manifest.interface), 496

IO (ask_smapl_model.v1.isp.distribution_countries.DistributionCountries attribute), 481

INTERNAL (ask_smapl_model.v1.skill.manifest.distribution_mode.DistributionMode attribute), 481

INTERNAL_SERVICE_ERROR (ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 477

IQ (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 393

IQ (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 477

IS (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 393

IS (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 477

is_canfulfill_intent_name() (in module *ask_sdk_core.utils.predicate*), 29

is_intent_name() (in module *ask_sdk_core.utils.predicate*), 29

is_new_session() (in module *ask_sdk_core.utils.request_util*), 34

is_request_type() (in module *ask_sdk_core.utils.predicate*), 29

IsGreaterThan (class in *ask_smapi_model.v1.skill.interaction_model.is_greater_than*), 459

IsGreaterThanOrEqualTo (class in *ask_smapi_model.v1.skill.interaction_model.is_greater_than_or_equal_to*), 459

IsInDuration (class in *ask_smapi_model.v1.skill.interaction_model.is_in_duration*), 460

IsInSet (class in *ask_smapi_model.v1.skill.interaction_model.is_in_set*), 460

IsLessThan (class in *ask_smapi_model.v1.skill.interaction_model.is_less_than*), 461

IsLessThanOrEqualTo (class in *ask_smapi_model.v1.skill.interaction_model.is_less_than_or_equal_to*), 461

IsNotInDuration (class in *ask_smapi_model.v1.skill.interaction_model.is_not_in_duration*), 462

IsNotInSet (class in *ask_smapi_model.v1.skill.interaction_model.is_not_in_set*), 462

IspSummaryLinks (class in *ask_smapi_model.v1.isp.isp_summary_links*), 400

IT (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 393

IT (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 477

ITEMS_CREATED (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 485

ITEMS_DELETED (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 485

ITEMS_UPDATED (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 485

ja_JP (*ask_smapi_model.v1.skill.history.intent_request_locales.IntentRequestLocales* attribute), 459

ja_JP (*ask_smapi_model.v1.skill.history.locale_in_query.LocaleInQuery* attribute), 488

JE (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 393

JE (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 477

JM (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 393

JM (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 477

JO (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 393

JO (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 477

JPY (*ask_smapi_model.v1.isp.currency.Currency* attribute), 389

json_discriminator_key (*ask_sdk_model.cause.Cause* attribute), 332

json_discriminator_key (*ask_sdk_model.directive.Directive* attribute), 316

json_discriminator_key (*ask_sdk_model.interfaces.alexa.presentation.apl.animated_property.AnimatedProperty* attribute), 82

json_discriminator_key (*ask_sdk_model.interfaces.alexa.presentation.apl.command.Command* attribute), 86

json_discriminator_key (*ask_sdk_model.interfaces.alexa.presentation.apl.command.Command* attribute), 115

json_discriminator_key (*ask_sdk_model.interfaces.amazonpay.model.request.base_amazonpay_request.BaseAmazonpayRequest* attribute), 132

json_discriminator_key (*ask_sdk_model.interfaces.connections.entities.base_entity.BaseEntity* attribute), 174

json_discriminator_key (*ask_sdk_model.interfaces.connections.requests.base_request.BaseRequest* attribute), 198

json_discriminator_key (*ask_sdk_model.interfaces.display.hint.Hint* attribute), 196

json_discriminator_key (*ask_sdk_model.interfaces.display.template.Template* attribute), 202

json_discriminator_key

(ask_sdk_model.interfaces.display.text_field.TextField attribute), 203

KN (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 477

json_discriminator_key (ask_sdk_model.interfaces.viewport.size.viewport_size.ViewportSize attribute), 225

KN (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 477

json_discriminator_key (ask_sdk_model.interfaces.viewport.typed_viewport.TaskTypedViewport class in ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 231

KR (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 394

json_discriminator_key (ask_sdk_model.request.Request attribute), 324

KW (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 394

json_discriminator_key (ask_sdk_model.services.directive.directive.Directive attribute), 236

KW (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 477

json_discriminator_key (ask_sdk_model.services.game_engine.recognizer.Recognizer attribute), 249

KY (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 394

json_discriminator_key (ask_sdk_model.ui.card.Card attribute), 307

KY (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 477

json_discriminator_key (ask_sdk_model.ui.output_speech.OutputSpeech attribute), 308

KZ (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 394

KZ (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 477

L

lambda_handler() (ask_sdk.standard.StandardSkillBuilder method), 41

lambda_handler() (ask_sdk_core.skill_builder.CustomSkillBuilder method), 25

lambda_handler() (ask_sdk_core.skill_builder.SkillBuilder method), 21

LA (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 468

LA (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 468

ValueSupplier (class in ask_sdk_core.skill_builder)

lambda_handler() (ask_sdk.standard.StandardSkillBuilder method), 41

lambda_handler() (ask_sdk_core.skill_builder.CustomSkillBuilder method), 25

lambda_handler() (ask_sdk_core.skill_builder.SkillBuilder method), 21

K

KE (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 393

LambdaEndpoint (class in ask_smapi_model.v1.skill.manifest.lambda_endpoint), 467

KE (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 477

LambdaRegion (class in ask_smapi_model.v1.skill.manifest.lambda_region), 497

Keyboard (class in ask_sdk_model.interfaces.viewport.keyboard), 228

KG (ask_sdk_core.utils.viewport.Orientation attribute), 30

KG (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 393

LAMBDA_ENDPOINT_FULL_BUILD (ask_smapi_model.v1.skill.build_step_name.BuildStepName attribute), 536

KH (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 393

LANGUAGE_MODEL_QUICK_BUILD (ask_smapi_model.v1.skill.build_step_name.BuildStepName attribute), 536

KH (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 477

LanguageModel (class in ask_smapi_model.v1.skill.interaction_model.language_model), 463

KI (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 393

KI (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 477

LARGE (ask_sdk_core.utils.viewport.Size attribute), 30

KM (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 393

LARGE (ask_sdk_model.interfaces.display.image_size.ImageSize attribute), 197

last (*ask_sdk_model.interfaces.alexa.presentation.apl.align* attribute), 80

LastUpdateRequest (class in attribute), 486
ask_smapi_model.v1.skill.interaction_model.catalog.last_update_request 446

LaunchDirective (class in attribute), 486
ask_sdk_model.interfaces.videoapp.launch_directive 220

LaunchRequest (class in attribute), 486
ask_sdk_model.launch_request), 318

LB (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountry* attribute), 394

LB (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountry* attribute), 478

LC (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountry* attribute), 394

LC (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountry* attribute), 478

Legacy_ActivityManager_ActivityContextRemovedEvent (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 485

Legacy_ActivityManager_ActivityInterruptedEvent (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 485

Legacy_ActivityManager_FocusChanged (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 485

Legacy_AlertsController_DismissCommand (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 485

Legacy_AlertsController_SnoozeCommand (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 485

Legacy_AudioPlayer_AudioStutter (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_AudioPlayer_InitialPlaybackProgressReport (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_AudioPlayer_Metadata (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_AudioPlayer_PeriodicPlaybackProgressReport (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_AudioPlayer_PlaybackError (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_AudioPlayer_PlaybackFinished (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_AudioPlayer_PlaybackIdle (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_Align_AudioPlayer_PlaybackInterrupted (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_AudioPlayer_PlaybackNearlyFinished (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_AudioPlayer_PlaybackPaused (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_AudioPlayer_PlaybackResumed (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_AudioPlayer_PlaybackStarted (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_AudioPlayer_PlaybackStutterFinished (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_AudioPlayer_PlaybackStutterStarted (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_AudioPlayerGui_ButtonClickedEvent (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 485

Legacy_AudioPlayerGui_LyricsViewedEvent (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_AuxController_DirectionChanged (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_AuxController_EnabledStateChanged (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_AuxController_InputActivityStateChanged (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_AuxController_PluggedStateChanged (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_BluetoothNetwork_CancelPairingMode (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_BluetoothNetwork_DeviceConnectedFailure (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_BluetoothNetwork_DeviceConnectedSuccess (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_BluetoothNetwork_DeviceDisconnectedFailure (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_BluetoothNetwork_DeviceDisconnectedSuccess (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 486

Legacy_BluetoothNetwork_DevicePairFailureLegacy_DeviceNotification_NotificationSync
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 486
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487

Legacy_BluetoothNetwork_DevicePairSuccessLegacy_DeviceNotification_SetNotificationFailed
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 486
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487

Legacy_BluetoothNetwork_DeviceUnpairFailureLegacy_DeviceNotification_SetNotificationSucceeded
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 486
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487

Legacy_BluetoothNetwork_DeviceUnpairSuccessLegacy_EqualizerController_EqualizerChanged
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 486
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487

Legacy_BluetoothNetwork_EnterPairingModeFailureLegacy_ExternalMediaPlayer_AuthorizationComplete
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 486
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487

Legacy_BluetoothNetwork_EnterPairingModeSuccessLegacy_ExternalMediaPlayer_Error
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 486
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487

Legacy_BluetoothNetwork_MediaControlFailureLegacy_ExternalMediaPlayer_Event
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 486
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487

Legacy_BluetoothNetwork_MediaControlSuccessLegacy_ExternalMediaPlayer_Login
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 486
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487

Legacy_BluetoothNetwork_ScanDevicesReportLegacy_ExternalMediaPlayer_Logout
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 486
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487

Legacy_BluetoothNetwork_SetDeviceCategoryFailureLegacy_ExternalMediaPlayer_ReportDiscoveredPlayers
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 486
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487

Legacy_BluetoothNetwork_SetDeviceCategorySuccessLegacy_ExternalMediaPlayer_RequestToken
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 486
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487

Legacy_ContentManager_ContentPlaybackTerminatedLegacy_FavoritesController_Error
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 486
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487

Legacy_DeviceNotification_DeleteNotificationFailureLegacy_FavoritesController_Response
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487

Legacy_DeviceNotification_DeleteNotificationSuccessLegacy_GameEngine_GameInputEvent
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487

Legacy_DeviceNotification_NotificationEnabledLegacy_HomeAutoAndWifiController_DeviceReconnected
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487

Legacy_DeviceNotification_NotificationEnabledLegacy_HomeAutoAndWifiController_HttpNotified
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487

Legacy_DeviceNotification_NotificationStoppedLegacy_HomeAutoWifiController_SsdpDiscoveryFinished
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487

Legacy_DeviceNotification_NotificationStoppedLegacy_HomeAutoWifiController_SsdpServiceDiscovered
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487
 (*ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 487

Legacy_HomeAutoWifiController_SsdpServiceEventName (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 487

Legacy_HomeAutoWifiController_SsdpServiceEventName (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488

Legacy_ListModel_AddItemRequest Legacy_MediaPlayer_PlaybackStarted (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 487 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488

Legacy_ListModel_DeleteItemRequest Legacy_MediaPlayer_PlaybackStopped (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 487 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488

Legacy_ListModel_GetPageByOrdinalRequest Legacy_MediaPlayer_SequenceItemsRequested (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 487 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488

Legacy_ListModel_GetPageByTokenRequest Legacy_MediaPlayer_SequenceModified (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 487 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488

Legacy_ListModel_ListStateUpdateRequest Legacy_MeetingClientController_Event (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 487 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488

Legacy_ListModel_UpdateItemRequest Legacy_Microphone_AudioRecording (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 487 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488

Legacy_ListRenderer_GetListPageByOrdinal Legacy_PhoneCallController_Event (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 487 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488

Legacy_ListRenderer_GetListPageByToken Legacy_PlaybackController_ButtonCommand (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 487 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488

Legacy_ListRenderer_ListItemEvent Legacy_PlaybackController_LyricsViewedEvent (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 487 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488

Legacy_MediaGrouping_GroupChangeNotification Legacy_PlaybackController_NextCommand (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 487 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488

Legacy_MediaGrouping_GroupChangeResponse Legacy_PlaybackController_PauseCommand (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 487 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488

Legacy_MediaGrouping_GroupSyncEvent Legacy_PlaybackController_PlayCommand (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488

Legacy_MediaPlayer_PlaybackError Legacy_PlaybackController_PreviousCommand (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488

Legacy_MediaPlayer_PlaybackFinished Legacy_PlaybackController_ToggleCommand (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488

Legacy_MediaPlayer_PlaybackIdle Legacy_PlaylistController_ErrorResponse (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488

Legacy_MediaPlayer_PlaybackNearlyFinished Legacy_PlaylistController_Response (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488

Legacy_MediaPlayer_PlaybackPaused Legacy_Presentation_PresentationDismissedEvent (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName attribute), 488

Legacy_Presentation_PresentationUserEventLegacy_UDPController_BroadcastResponse
 (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 488
 Legacy_SceneRemoteControl_Next LI (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 488
 Legacy_SceneRemoteControl_PlayPause (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 488
 Legacy_SceneRemoteControl_Previous LightAnimation (class in ask_smapi_model.services.gadget_controller.light_animation), attribute), 488
 Legacy_SceneRemoteControl_VolumeDown line (ask_sdk_model.interfaces.alexa.presentation.apl.highlight_mode.HighlightMode attribute), 488
 Legacy_SceneRemoteControl_VolumeUp LinkAccountCard (class in ask_smapi_model.ui.link_account_card), 307
 Legacy_SipClient_Event Links (class in ask_sdk_model.services.list_management.links), attribute), 488
 Legacy_SoftwareUpdate_CheckSoftwareUpdateReport450
 Legacy_SoftwareUpdate_InitiateSoftwareUpdateReport450
 Legacy_Speaker_MuteChanged (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 488
 Legacy_Speaker_VolumeChanged (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 488
 Legacy_SpeechRecognizer_WakeWordChanged (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 488
 Legacy_SpeechSynthesizer_SpeechFinished (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 489
 Legacy_SpeechSynthesizer_SpeechInterrupted (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 489
 Legacy_SpeechSynthesizer_SpeechStarted (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 489
 Legacy_SpeechSynthesizer_SpeechSynthesizerError (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 489
 Legacy_Spotify_Event (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 489
 Legacy_System_UserInactivity (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 489

<code>(ask_smapi_model.services.skill_management.skill_management_client.SkillManagementServiceClient.list_created_event)</code>	<code>ask_sdk_model.interfaces.amazonpay.model.response.release_environment</code>	256
<code>list_nlu_annotation_sets_v1()</code>	<code>ListItemsDeletedEventRequest</code> (class in <code>ask_sdk_model.interfaces.amazonpay.model.response.release_environment</code>)	257
<code>list_nlu_evaluations_v1()</code>	<code>ListItemState</code> (class in <code>ask_sdk_model.interfaces.amazonpay.model.response.release_environment</code>)	256
<code>list_private_distribution_accounts_v1()</code>	<code>ListItemsUpdatedEventRequest</code> (class in <code>ask_sdk_model.interfaces.amazonpay.model.response.release_environment</code>)	257
<code>list_skills_for_vendor_v1()</code>	<code>ListManagementServiceClient</code> (class in <code>ask_sdk_model.interfaces.amazonpay.model.response.release_environment</code>)	258
<code>list_subscribers_for_development_events_v0()</code>	<code>PrivateDistributionAccountsResponse</code> (class in <code>ask_sdk_model.interfaces.amazonpay.model.response.release_environment</code>)	524
<code>list_subscriptions_for_development_event_v0()</code>	<code>SubscriptionResponse</code> (class in <code>ask_sdk_model.interfaces.amazonpay.model.response.release_environment</code>)	450
<code>LIST_UPDATED</code> (<code>ask_smapi_model.v1.skill.manifest.event_listener_type.EventNameType</code> attribute)	(class in <code>ask_sdk_model.v1.skill.list_skill_response</code>)	485
<code>list_uploads_for_catalog_v0()</code>	<code>SkillsManagementServiceClient</code> (class in <code>ask_sdk_model.services.list_management.list_state</code>)	542
<code>list_versions_for_skill_v1()</code>	<code>SkillsManagementServiceClient</code> (class in <code>ask_sdk_model.interfaces.display.list_template1</code>)	260
<code>ListBody</code> (class in <code>ask_sdk_model.services.list_management.list_body</code>)		253
<code>ListCatalogResponse</code> (class in <code>ask_sdk_model.interfaces.display.list_template2</code>)	<code>ask_sdk_model.v1.skill.interaction_model.catalog.list_catalog_response</code>	446
<code>ListCertificationsResponse</code> (class in <code>ask_sdk_model.v1.skill.beta_test.testers.list_testers_response</code>)	<code>ask_sdk_model.v1.skill.certification.list_certifications_response</code>	426
<code>ListCreatedEventRequest</code> (class in <code>ask_sdk_model.services.list_management.list_updated_event_request</code>)	<code>ask_sdk_model.interfaces.amazonpay.model.response.release_environment</code> (attribute)	254
<code>ListDeletedEventRequest</code> (class in <code>ask_sdk_model.interfaces.amazonpay.model.v1.release_environment</code>)	<code>ask_sdk_model.interfaces.amazonpay.model.v1.release_environment</code> (attribute)	255
<code>ListInSkillProduct</code> (class in <code>ask_sdk_model.services.monetization.purchase_mode.PurchaseMode</code>)	<code>ask_smapi_model.v1.isp.list_in_skill_product</code> (attribute)	401
<code>ListInSkillProductResponse</code> (class in <code>ask_sdk_model.services.proactive_events.skill_stage.SkillStage</code>)	<code>ask_smapi_model.v1.isp.list_in_skill_product_response</code> (attribute)	401
<code>ListItem</code> (class in <code>ask_sdk_model.interfaces.display.list_item</code>)	<code>ask_sdk_model.v1.stage_type.StageType</code> (attribute)	198
<code>ListItemBody</code> (class in <code>ask_sdk_model.interfaces.display.list_item</code>)	<code>ask_sdk_model.v1.stage_type.StageType</code> (attribute)	255
<code>ListItemsCreatedEventRequest</code> (class in <code>ask_sdk_model.v1.stage_v2_type.StageV2Type</code>)	<code>ask_sdk_model.v1.stage_v2_type.StageV2Type</code> (attribute)	558

LK (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountry* attribute), 489
 LocalApplication_KnightHomeThingsToTry_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 478
 LocalApplication_Alexa_Translation_LiveTranscription_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_AlexaTranslations_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_AlexaNotifications_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_AlexaPlatformTestSpeechLetApplication_MShop_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_AlexaVision_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_AlexaVoiceLayer_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_AvaPhysicalShopping_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_Calendar_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_Closet_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_Communications_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_DeviceMessaging_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_DigitalDash_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_FireflyShopping_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_Gallery_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_HHOPhotos_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_HomeAutomationMedia_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_KnightContacts_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_KnightHome_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_KnightHomeThingsToTry_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 478
 LocalApplication_LocalMediaPlayer_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_LocalVoiceUI_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_MShop_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_MShopPurchasing_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_NotificationsApp_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_Photos_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_Sentry_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_SipClient_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_SipUserAgent_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_todoRenderer_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 490
 LocalApplication_VideoExperienceService_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 LocalApplication_WebVideoPlayer_Event (*ask_smapi_model.v1.skill.manifest.event_name_type.EventName* attribute), 489
 locale (*ask_smapi_model.v1.skill.history.sort_field_for_intent_request_type.NameType*), 441
 LocaleInQuery (class in *ask_smapi_model.v1.skill.history.locale_in_query*), 440
 LocalizedFlashBriefingInfo (class in *ask_smapi_model.v1.skill.manifest.localized_flash_briefing_info*), 448
 LocalizedFlashBriefingInfoItems (class in *ask_smapi_model.v1.skill.manifest.localized_flash_briefing_info*), 448
 LocalizedHealthInfo (class in *ask_smapi_model.v1.skill.manifest.localized_health_info*), 440

LocalizedMusicInfo (class in attribute), 478
ask_smapi_model.v1.skill.manifest.localized_music_info), 500

M

LocalizedPrivacyAndCompliance (class in MA (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries ask_smapi_model.v1.isp.localized_privacy_and_compliance) attribute), 394
402 MA (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC

LocalizedPublishingInformation (class in attribute), 478
ask_smapi_model.v1.isp.localized_publishing_information), 402

Location (class in ask_smapi_model.v1.catalog.upload.location), 500
384

LocationServices (class in (ask_smapi_model.v1.skill.publication_method.PublicationMethod ask_sdk_model.interfaces.geolocation.location_services), attribute), 542
209

LOW (ask_sdk_core.utils.viewport.Density attribute), 30
ask_smapi_model.v1.isp.marketplace_pricing), 403

LOW (ask_smapi_model.v1.skill.history.confidence_bin.ConfidenceBin attribute), 436
matches (ask_sdk_model.services.game_engine.event_reporting_type.EventReportingType attribute), 437

LOW (ask_smapi_model.v1.skill.history.intent_confidence_bin.IntentConfidenceBin attribute), 437
MAX_TIMESTAMP_TOLERANCE_IN_MILLIS (in attribute), 43

LR (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 394
Module ask_sdk_webservice_support.verifier_constants), 43

LR (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 478
ask_sdk_model.canfulfill.can_fulfill_intent_values.CanFulfillIntentValues attribute), 67

LS (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 394
ask_sdk_model.canfulfill.can_understand_slot_values.CanUnderstandSlotValues attribute), 68

LS (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 478
ask_smapi_model.v1.skill.image_size_unit.ImageSizeUnit attribute), 540

LT (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 394
ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 394

LT (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 478
ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 478

LU (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 394
ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 394

LU (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 478
ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 478

LV (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 394
ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 394

LV (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 478
ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 478

LWA_CREDENTIALS_GRANT_TYPE MEDIA_ERROR_INTERNAL_DEVICE_ERROR
(ask_sdk_model.services.lwa.lwa_client.LwaClient (ask_sdk_model.interfaces.audioplayer.error_type.ErrorType attribute), 265 attribute), 166

LWA_CREDENTIALS_GRANT_TYPE MEDIA_ERROR_INTERNAL_SERVER_ERROR
(ask_sdk_model_runtime.lwa.lwa_client.LwaClient (ask_sdk_model.interfaces.audioplayer.error_type.ErrorType attribute), 57 attribute), 166

LwaClient (class in MEDIA_ERROR_INVALID_REQUEST
ask_sdk_model.services.lwa.lwa_client), (ask_sdk_model.interfaces.audioplayer.error_type.ErrorType attribute), 166
265

LwaClient (class in MEDIA_ERROR_SERVICE_UNAVAILABLE
ask_sdk_model_runtime.lwa.lwa_client), (ask_sdk_model.interfaces.audioplayer.error_type.ErrorType attribute), 166
57

LY (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 394
MEDIA_ERROR_UNKNOWN (ask_sdk_model.interfaces.audioplayer.error_type.ErrorType attribute), 166

LY (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 478
attribute), 166

MediaCommandType (class in attribute), 394
ask_sdk_model.interfaces.alexa.presentation.apl.media_command_type, 96
MEDIUM (ask_sdk_core.utils.viewport.Density attribute), 30
MEDIUM (ask_sdk_core.utils.viewport.Size attribute), 30
MEDIUM (ask_sdk_model.interfaces.display.image_size.ImageSize attribute), 198
MEDIUM (ask_smapi_model.v1.skill.history.confidence_bin.ConfidenceBin attribute), 436
MEDIUM (ask_smapi_model.v1.skill.history.intent_confidence_bin.IntentConfidenceBin attribute), 438
MerchantInitiatedTransaction (ask_sdk_model.interfaces.amazonpay.model.request_billing_agreement_type attribute), 133
MerchantInitiatedTransaction (ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_type attribute), 149
MessageReceivedRequest (class in attribute), 211
ask_sdk_model.interfaces.messaging.message_received_request, 211
MessageRequest (class in attribute), 126
ask_sdk_model.interfaces.alexa.presentation.html.message_request, 126
Messaging_MessageReceived (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 490
MessagingController_UpdateConversationsStatusRequest (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 490
MessagingController_UpdateMessagesStatusRequest (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 490
MessagingController_UpdateSendMessageStatusRequest (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 490
MessagingController_UploadConversations (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 490
Metadata (class in ask_sdk_model.interfaces.videoapp.metadata), 220
ask_sdk_model.interfaces.videoapp.metadata, 220
Metadata (class in ask_sdk_model.services.monetization.metadata), 269
ask_sdk_model.services.monetization.metadata, 269
METRIC (ask_sdk_model.services.ups.distance_units.DistanceUnits attribute), 294
Metric (class in ask_smapi_model.v1.skill.metrics.metric), 522
ask_smapi_model.v1.skill.metrics.metric, 522
Metrics (class in ask_smapi_model.v1.skill.simulations.metrics), 528
ask_smapi_model.v1.skill.simulations.metrics, 528
MF (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 394
ask_smapi_model.v1.isp.distribution_countries.DistributionCountries, 394
MF (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 478
ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries, 478
MG (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 543
ask_smapi_model.v1.isp.distribution_countries.DistributionCountries, 543

MoveTransformProperty (class in 503
ask_sdk_model.interfaces.alexa.presentation.apl.move_transform_property), (class in
96 ask_smapi_model.v1.skill.manifest.music_request),

MP (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
attribute), 394 MusicWordmark (class in
MP (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
attribute), 478 ask_smapi_model.v1.skill.manifest.music_wordmark),

MQ (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
attribute), 394 MQ (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
attribute), 394

MQ (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
attribute), 478 MQ (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
attribute), 478

MR (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
attribute), 394 MR (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
attribute), 394

MR (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
attribute), 478 MR (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
attribute), 478

MS (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
attribute), 394 MS (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
attribute), 394

MS (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
attribute), 478 MS (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
attribute), 478

MT (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
attribute), 394 MT (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
attribute), 395

MT (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
attribute), 478 MT (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
attribute), 478

MU (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
attribute), 394 MU (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
attribute), 395

MU (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
attribute), 478 MU (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
attribute), 478

Multicast (ask_sdk_model.services.proactive_events.relevant_audience_type.RelevantAudienceType
attribute), 277

N

MultiTurn (class in NA (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
ask_smapi_model.v1.skill.evaluations.multi_turn), attribute), 395
430 NA (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
attribute), 478

music (ask_smapi_model.v1.skill.skill_summary_apis.SkillSummaryApis
attribute), 547 NATIVE_TYPES_MAPPING

MusicAlias (class in (ask_sdk_model_runtime.serializer.DefaultSerializer
ask_smapi_model.v1.skill.manifest.music_alias), attribute), 62
501

MusicApis (class in ask_sdk_model.interfaces.navigation.navigation_interface),
ask_smapi_model.v1.skill.manifest.music_apis), 213
501

MusicCapability (class in NC (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
ask_smapi_model.v1.skill.manifest.music_capability), attribute), 395
502 MQ (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
attribute), 478

MusicContentName (class in NE (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
ask_smapi_model.v1.skill.manifest.music_content_name), attribute), 395
502 NE (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
attribute), 479

MusicContentType (class in attribute), 479
ask_smapi_model.v1.skill.manifest.music_content_type),
503 NEW_SKILL (ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_permission
attribute), 416

MusicFeature (class in NEW_USER_REGISTRATION_REQUIRED
ask_smapi_model.v1.skill.manifest.music_feature), (ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_permission
attribute), 415
503

MusicInterfaces (class in NEWSPAPERS (ask_smapi_model.v1.isp.tax_information_category.TaxInfo
ask_smapi_model.v1.skill.manifest.music_interfaces), attribute), 409

next (*ask_sdk_model.interfaces.alexa.presentation.apl.media_container_type.MediaContainerType* attribute), 96

next (*ask_sdk_model.interfaces.alexa.presentation.apl.media_container_type.MediaContainerType* attribute), 272

NextCommandIssuedRequest (class in NOT_PURCHASABLE (*ask_smapi_model.v1.isp.purchasable_state.PurchasableState*)), 214

NOT_PURCHASED (*ask_sdk_model.services.monetization.entitlement_reason.Reason* attribute), 266

NF (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 266

NF (*ask_sdk_model.services.monetization.entitlement_reason.Reason* attribute), 395

NF (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 479

NOT_RECEIVED_CERTIFICATION_FEEDBACK (*ask_sdk_model.services.monetization.entitlement_reason.Reason* attribute), 543

NG (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 395

NOT_ACCEPTED (*ask_smapi_model.v1.skill.beta_test.testers_invitation_status.InvitationStatus* attribute), 266

NG (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 395

NOT_ACCEPTED (*ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_status.BillingAgreementStatus* attribute), 479

NI (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 395

NOT_ACCEPTED (*ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_status.BillingAgreementStatus* attribute), 395

NI (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 479

NOT_ACCEPTED (*ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_status.BillingAgreementStatus* attribute), 479

NL (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 395

NOT_ACCEPTED (*ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_status.BillingAgreementStatus* attribute), 395

NL (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 479

NOT_ACCEPTED (*ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_status.BillingAgreementStatus* attribute), 479

NO (*ask_sdk_model.canfulfill.can_fulfill_intent_values.CanFulfillIntentValues* attribute), 67

NOT_ACCEPTED (*ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_status.BillingAgreementStatus* attribute), 550

NO (*ask_sdk_model.canfulfill.can_fulfill_slot_values.CanFulfillSlotValues* attribute), 68

NOT_ACCEPTED (*ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_status.BillingAgreementStatus* attribute), 395

NO (*ask_sdk_model.canfulfill.can_understand_slot_values.CanUnderstandSlotValues* attribute), 68

NOT_ACCEPTED (*ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_status.BillingAgreementStatus* attribute), 479

NO (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 395

OPTIONAL (*ask_smapi_model.v1.skill.manifest.gadget_support.GadgetSupport* attribute), 493

NO (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 479

NOT_ACCEPTED (*ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_status.BillingAgreementStatus* attribute), 550

NODE_10_X (*ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_runtime.HostedSkillRuntime* attribute), 418

NOT_ACCEPTED (*ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_status.BillingAgreementStatus* attribute), 395

NONE (*ask_sdk_model.intent_confirmation_status.IntentConfirmationStatus* attribute), 317

NOT_ACCEPTED (*ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_status.BillingAgreementStatus* attribute), 479

NONE (*ask_sdk_model.interfaces.alexa.presentation.apl.target_profile.TargetProfile* attribute), 123

NOT_ACCEPTED (*ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_status.BillingAgreementStatus* attribute), 291

none (*ask_sdk_model.services.gadget_controller.trigger_event_type.TriggerEventType* attribute), 243

NOT_ACCEPTED (*ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_status.BillingAgreementStatus* attribute), 502

NONE (*ask_sdk_model.slot_confirmation_status.SlotConfirmationStatus* attribute), 330

NOT_ACCEPTED (*ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_status.BillingAgreementStatus* attribute), 440

NONE (*ask_smapi_model.v1.skill.evaluations.confirmation_status_type.ConfirmationStatusType* attribute), 428

NOT_ACCEPTED (*ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_status.BillingAgreementStatus* attribute), 143

NOT_ACCEPTED (*ask_smapi_model.v1.skill.beta_test.testers_invitation_status.InvitationStatus* attribute), 419

NOT_ACCEPTED (*ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_status.BillingAgreementStatus* attribute), 149

NOT_EDITABLE (*ask_smapi_model.v1.isp.editable_state.EditableState* attribute), 397

NOT_ACCEPTED (*ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_status.BillingAgreementStatus* attribute), 154

NOT_ENTITLED (*ask_sdk_model.interfaces.monetization.v1.purchase_result.PurchaseResult* (class in NOT_PURCHASABLE (*ask_sdk_model.interfaces.alexa.presentation.apl.open_url_command.OpenUrlCommand*))), 212

NOT_ENTITLED (*ask_sdk_model.services.monetization.entitled_state.EntitledState* attribute), 266

NOT_INTEND_TO_PUBLISH (*ask_smapi_model.v1.skill.reason.Reason* attribute), 543

OPTIONAL (*ask_smapi_model.v1.skill.manifest.gadget_support.GadgetSupport* attribute), 493

options () (*django_ask_sdk.skill_adapter.SkillAdapter* method), 49

OrderedEnum (class in ask_sdk_core.utils.viewport), PE (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 30

Orientation (class in ask_sdk_core.utils.viewport), PE (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 30

OTHER (ask_smapi_model.v1.skill.manifest.flash_briefing_group.FlashBriefingGroup attribute), 492

OTHER (ask_smapi_model.v1.skill.reason.Reason attribute), 543

OutputSpeech (class in ask_sdk_model.ui.output_speech), 308

OVERLAY (ask_sdk_model.interfaces.viewport.presentation_type.PresentationType attribute), 229

P

P1D (ask_smapi_model.v1.skill.metrics.period.Period attribute), 522

PA (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 395

PA (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 479

ParallelCommand (class in ask_sdk_model.interfaces.alexa.presentation.apl.parallel_command), 97

ParallelCommand (class in ask_sdk_model.interfaces.alexa.presentation.apl.parallel_command), 117

Pattern (class in ask_sdk_model.services.game_engine.pattern), 246

PatternRecognizer (class in ask_sdk_model.services.game_engine.pattern_recognizer), 247

PatternRecognizerAnchorType (class in ask_sdk_model.services.game_engine.pattern_recognizer_anchor_type), 247

pause (ask_sdk_model.interfaces.alexa.presentation.apl.media_command_type.MediaCommandType attribute), 96

PauseCommandIssuedRequest (class in ask_sdk_model.interfaces.playbackcontroller.pause_command_issued_request), 214

paused (ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_media_command_type.ComponentVisibleOnScreenMediaCommandType attribute), 90

PAUSED (ask_sdk_model.interfaces.audioplayer.player_activity.PlayerActivity attribute), 171

PaymentAction (class in ask_sdk_model.interfaces.amazonpay.model.request.payment_action), 133

PaymentAction (class in ask_sdk_model.interfaces.amazonpay.model.v1.payment_action), 151

payments_autopay_consent (ask_smapi_model.v1.skill.manifest.permission_name.PermissionName attribute), 506

PC (ask_sdk_model.interfaces.viewport.mode.Mode attribute), 229

PE (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 395

PE (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 479

Pending (ask_sdk_model.interfaces.amazonpay.model.v1.state.State attribute), 154

PENDING (ask_smapi_model.v1.catalog.upload.file_upload_status.FileUploadStatus attribute), 382

PENDING (ask_smapi_model.v1.catalog.upload.ingestion_status.IngestionStatus attribute), 384

PENDING (ask_smapi_model.v1.catalog.upload.upload_status.UploadStatus attribute), 386

PENDING (ask_smapi_model.v1.skill.private.accept_status.AcceptStatus attribute), 524

PENDING_APPROVAL_BY_PARENT (ask_sdk_model.services.monetization.status.Status attribute), 273

Period (class in ask_smapi_model.v1.skill.metrics.period), 522

PERIODICALS (ask_smapi_model.v1.isp.tax_information_category.TaxInformationCategory attribute), 409

Permission (class in ask_sdk_model.events.skillevents.permission), 74

PermissionAcceptedRequest (class in ask_sdk_model.events.skillevents.permission_accepted_request), 74

PermissionBody (class in ask_sdk_model.events.skillevents.permission_body), 75

PermissionChangedRequest (class in ask_sdk_model.events.skillevents.permission_changed_request), 75

PermissionItems (class in ask_smapi_model.v1.skill.manifest.permission_items), 504

PermissionName (class in ask_sdk_model.permissions), 319

PermissionStatus (class in ask_sdk_model.permissions), 319

PersistenceException, 28

persistent_attributes (ask_sdk_core.attributes_manager.AttributesManager attribute), 26

Person (class in ask_sdk_model.person), 320

partition_keygen() (in module ask_sdk_dynamodb.partition_keygen), 36

PF (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 395

PF (*ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 479
 PG (*ask_smapl_model.v1.isp.distribution_countries.DistributionCountries* attribute), 395
 PG (*ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 479
 PH (*ask_smapl_model.v1.isp.distribution_countries.DistributionCountries* attribute), 395
 PH (*ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 479
 PhoneNumber (class in *ask_sdk_model.interfaces.audioplayer.play_behavior*), *ask_sdk_model.services.ups.phone_number*), 295
 PK (*ask_smapl_model.v1.isp.distribution_countries.DistributionCountries* attribute), 395
 PK (*ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 479
 PL (*ask_smapl_model.v1.isp.distribution_countries.DistributionCountries* attribute), 395
 PL (*ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 479
 PLAIN_TEXT_TYPE (in module *ask_sdk_model.interfaces.audioplayer.player_activity*), *ask_sdk_core.response_helper*), 18
 PlainText (*ask_smapl_model.v1.skill.interaction_model.prompt_type.PromptListType* alexa.presentation.apl.component_viss), 464
 PlainText (class in *PLAYING* (*ask_sdk_model.interfaces.audioplayer.player_activity.PlayerActivity* attribute), 171
 PlainTextHint (class in *ask_sdk_model.interfaces.alexapresentation.apl.play_media_command*), *ask_sdk_model.interfaces.display.plain_text_hint*), 200
 PlainTextOutputSpeech (class in *PM* (*ask_smapl_model.v1.isp.distribution_countries.DistributionCountries* attribute), 395
ask_sdk_model.ui.plain_text_output_speech), *PM* (*ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 479
 play (*ask_sdk_model.interfaces.alexapresentation.apl.media_command_type.MediaCommandType* alexa.presentation.apl.media_command_type), 96
 PlaybackController_NextCommandIssued (*ask_smapl_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 490
 PlaybackController_PauseCommandIssued (*ask_smapl_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 490
 PlaybackController_PlayCommandIssued (*ask_smapl_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 490
 PlaybackController_PreviousCommandIssued (*ask_smapl_model.v1.skill.manifest.event_name_type.EventNameType* attribute), 490
 PlaybackFailedRequest (class in *post* () (*django_ask_sdk.skill_adapter.SkillAdapter* attribute), 168
 PlaybackFinishedRequest (class in *ask_sdk_model.interfaces.audioplayer.playback_failed_request*), *ask_sdk_model.interfaces.audioplayer.playback_finished_request*), 168
 PlaybackStartedRequest (class in *ask_sdk_model.interfaces.audioplayer.playback_nearly_finished_request*), *ask_sdk_model.interfaces.audioplayer.playback_started_request*), 170
 PlaybackStoppedRequest (class in *ask_sdk_model.interfaces.audioplayer.playback_stopped_request*), 170
 PlayBehavior (class in *ask_sdk_model.ui.play_behavior*), 309
 PlayCommandIssuedRequest (class in *ask_sdk_model.interfaces.playbackcontroller.play_command_issued_request*), 215
 PlayDirective (class in *ask_sdk_model.interfaces.audioplayer.play_directive*), 170
 PlayerActivity (class in *ask_sdk_model.interfaces.audioplayer.player_activity*), 171
 PLAYING (*ask_sdk_model.interfaces.audioplayer.player_activity.PlayerActivity* attribute), 171
 PlayMediaCommand (class in *ask_sdk_model.interfaces.alexapresentation.apl.play_media_command*), 98
 PM (*ask_smapl_model.v1.isp.distribution_countries.DistributionCountries* attribute), 395
 PM (*ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 479
 PODCAST (*ask_smapl_model.v1.skill.manifest.music_content_name.MusicContentNameType* attribute), 502
 PORTRAIT (*ask_sdk_core.utils.viewport.OrientationAttribute* attribute), 99
 Position (class in *ask_sdk_model.interfaces.alexapresentation.apl.position*), 117
 PostalAddress (class in *ask_sdk_model.interfaces.connections.entities.postal_address*), 168
 PR (*ask_smapl_model.v1.isp.distribution_countries.DistributionCountries* attribute), 395

attribute), 395
 PR (*ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries*
attribute), 479
 ProactiveSubscriptionEvent (*class in*
 PresentationType (*class in ask_sdk_model.events.skillevents.proactive_subscription_event*),
ask_sdk_model.interfaces.viewport.presentation_type), 77
 process () (*ask_sdk_core.dispatch_components.request_components.Abs*
 229
 PresignedUploadPartItems (*class in method*), 16
ask_smapl_model.v1.catalog.presigned_upload_parts_items), (*ask_sdk_core.dispatch_components.request_components.Abs*
 388
method), 17
 PreSignedUrl (*class in process () (ask_sdk_runtime.dispatch_components.request_components.*
ask_smapl_model.v1.catalog.upload.pre_signed_url), *method*), 4
 385
 process () (*ask_sdk_runtime.dispatch_components.request_components.*
 PreSignedUrlItem (*class in method*), 4
ask_smapl_model.v1.catalog.upload.pre_signed_url_item),
 385
 PRONOUNS, ACTIVITY_AND_UTILITIES
(ask_smapl_model.v1.skill.manifest.flash_briefing_genre.FlashBr
 previous (*ask_sdk_model.interfaces.alexa.presentation.apl.media_command_type.MediaCommandType*
attribute), 96
 ProductResponse (*class in*
 PreviousCommandIssuedRequest (*class in ask_smapl_model.v1.isp.product_response*),
ask_sdk_model.interfaces.playbackcontroller.previous_command_issued_request),
 215
 ProductType (*class in*
 Price (*class in ask_sdk_model.interfaces.amazonpay.model.request_music_sdk_model.services.monetization.product_type*),
 134
 271
 Price (*class in ask_sdk_model.interfaces.amazonpay.model.response_type*), (*class in*
 142
ask_smapl_model.v1.isp.product_type), 405
 Price (*class in ask_sdk_model.interfaces.amazonpay.model.request_nlu_v1 () (ask_smapl_model.services.skill_management.skill*
 151
method), 371
 PriceListing (*class in ProfileNluRequest (class in*
ask_smapl_model.v1.isp.price_listing), 404
ask_smapl_model.v1.skill.evaluations.profile_nlu_request),
 PRIMITIVE_TYPES (*ask_sdk_model_runtime.serializer.DefaultSerializer*
attribute), 62
 ProfileNluResponse (*class in*
 PrintImageRequest (*class in ask_smapl_model.v1.skill.evaluations.profile_nlu_response*),
ask_sdk_model.interfaces.connections.requests.print_image_request),
 176
 ProfileNluSelectedIntent (*class in*
 PrintPDFRequest (*class in ask_smapl_model.v1.skill.evaluations.profile_nlu_selected_intent*
ask_sdk_model.interfaces.connections.requests.print_pdf_request),
 177
 ProgressRecognizer (*class in*
 PrintWebPageRequest (*class in ask_sdk_model.services.game_engine.progress_recognizer*),
ask_sdk_model.interfaces.connections.requests.print_web_page_request),
 178
 Prompt (*class in ask_smapl_model.v1.skill.interaction_model.prompt*),
 PrivacyAndCompliance (*class in 463*
ask_smapl_model.v1.isp.privacy_and_compliance),
 404
 PromptItems (*class in*
 PRIVATE (*ask_smapl_model.v1.skill.manifest.distribution_mode.DistributionMode*
attribute), 481
 PromptItemsType (*class in*
 PrivateDistributionAccount (*class in ask_smapl_model.v1.skill.interaction_model.prompt_items_type*),
ask_smapl_model.v1.skill.private.private_distribution_account),
 524
 ProviderAttributes (*class in*
 ProactiveEventsServiceClient (*class in ask_sdk_model.interfaces.amazonpay.model.request.provider_attributes*
ask_sdk_model.services.proactive_events.proactive_events_service_client),
 276
 ProviderAttributes (*class in*
 ProactiveSubscriptionChangedBody (*class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_attributes*
ask_sdk_model.events.skillevents.proactive_subscription_changed_body),
 76
 ProviderCredit (*class in*
 ProactiveSubscriptionChangedRequest (*ask_sdk_model.interfaces.amazonpay.model.request.provider_cre*

135
 ProviderCredit (class in PushNotification (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 382
 152
 PS (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries (class in ask_sdk_model.services.reminder_management.push_notification (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 395
 attribute), 395
 PS (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries (class in ask_sdk_model.services.reminder_management.push_notification (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 395
 attribute), 479
 PW (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 395
 attribute), 395
 PW (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 395
 attribute), 479
 PT (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 395
 attribute), 395
 PT (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 395
 attribute), 479
 PT15M (ask_smapi_model.v1.skill.metrics.period.Period (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 522
 attribute), 522
 PT1H (ask_smapi_model.v1.skill.metrics.period.Period (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 522
 attribute), 522
 PUBLIC (ask_smapi_model.v1.skill.manifest.distribution_mode.DistributionMode (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 481
 attribute), 481
 PublicationFailure (class in Q (class in ask_sdk_model.v1.isp.distribution_countries.DistributionCountries (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 426
 attribute), 426
 PublicationMethod (class in QA (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 479
 attribute), 479
 ask_smapi_model.v1.skill.publication_method), 542
 publicationStatus (ask_smapi_model.v1.skill.history.sort_field_for_intent_request_type.SortFieldForIntentRequestType (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 441
 attribute), 441
 PublicationStatus (class in R (class in ask_sdk_model.v1.isp.distribution_countries.DistributionCountries (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 441
 attribute), 441
 ask_smapi_model.v1.skill.history.publication_status), 441
 PUBLISHED (ask_smapi_model.v1.isp.status.Status (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 407
 attribute), 407
 PublishingInformation (class in RE (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 395
 attribute), 395
 ask_smapi_model.v1.isp.publishing_information), 405
 PURCHASABLE (ask_sdk_model.services.monetization.purchasable_state.PurchasableState (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 272
 attribute), 272
 PURCHASABLE (ask_smapi_model.v1.isp.purchasable_state.PurchasableState (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 406
 attribute), 406
 PurchasableState (class in RECOGNIZED (ask_sdk_model.services.game_engine.recognizer), 248
 attribute), 272
 ask_sdk_model.services.monetization.purchasable_state), 272
 PURCHASABLE (ask_smapi_model.v1.isp.purchasable_state.PurchasableState (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 406
 attribute), 406
 Recommended (ask_smapi_model.v1.skill.validations.response_validation (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 532
 attribute), 532
 recordCount (ask_smapi_model.v1.skill.history.sort_field_for_intent_request_type.SortFieldForIntentRequestType (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 441
 attribute), 441
 PURCHASED (ask_sdk_model.services.monetization.entitlement_reason.EntitlementReason (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 266
 attribute), 266
 RECTANGLE (ask_sdk_model.interfaces.viewport.shape.Shape (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 230
 attribute), 230
 RECTANGLE (ask_smapi_model.v1.skill.manifest.viewport_shape.ViewportShape (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 520
 attribute), 520
 PurchaseMode (class in Recurrence (class in ask_sdk_model.services.reminder_management.recurrence), 282
 attribute), 272
 ask_sdk_model.services.monetization.purchase_mode), 272
 PurchaseResult (class in RecurrenceDay (class in ask_sdk_model.services.reminder_management.recurrence_day), 282
 attribute), 212
 ask_sdk_model.interfaces.monetization.v1.purchase_result), 212
 PURGED (ask_smapi_model.v1.catalog.upload.file_upload_status.FileUploadStatus (class in ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit), 282
 attribute), 282

RecurrenceFreq (class in ReminderManagementServiceClient (class in ask_sdk_model.services.reminder_management.recurrence_freq), 283)

REFRESH_ACCESS_TOKEN (ask_sdk_model.services.lwa.lwa_client.LwaClient attribute), 265

REFRESH_ACCESS_TOKEN (ask_sdk_model_runtime.lwa.lwa_client.LwaClient attribute), 57

Region (class in ask_smapi_model.v1.skill.manifest.region), 506

RegionalSSLCertificate (class in ask_smapi_model.v1.skill.regional_ssl_certificate), 543

register() (flask_ask_sdk.skill_adapter.SkillAdapter method), 48

relative (ask_sdk_model.interfaces.alexa.presentation.apl.position.Position attribute), 99

relative (ask_sdk_model.interfaces.alexa.presentation.apl.position.Positions_from_beta_test_v1() attribute), 117

ReleaseEnvironment (class in ask_sdk_model.interfaces.amazonpay.model.response.release_environment), 142

ReleaseEnvironment (class in ask_sdk_model.interfaces.amazonpay.model.v1.release_environment), 152

RelevantAudience (class in ask_sdk_model.services.proactive_events.relevant_audience), 276

RelevantAudienceType (class in ask_sdk_model.services.proactive_events.relevant_audience_type), 277

Reminder (class in ask_sdk_model.services.reminder_management.Reminder), 283

REMINDER_CREATED (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 490

REMINDER_DELETED (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 490

REMINDER_STARTED (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 490

REMINDER_STATUS_CHANGED (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 490

REMINDER_UPDATED (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType attribute), 490

ReminderCreatedEventRequest (class in ask_sdk_model.services.reminder_management.reminder_created_event_request), 284

ReminderDeletedEvent (class in ask_sdk_core.attributes_manager.AttributesManager (ask_sdk_model.services.reminder_management.reminder_deleted_event), 285)

ReminderDeletedEventRequest (class in ask_sdk_model.services.reminder_management.reminder_deleted_event_request), 285

ReminderRequest (class in ask_sdk_model.services.reminder_management.reminder_request), 287

ReminderResponse (class in ask_sdk_model.services.reminder_management.reminder_response), 288

ReminderStartedEventRequest (class in ask_sdk_model.services.reminder_management.reminder_started_event_request), 288

ReminderStatusChangedEventRequest (class in ask_sdk_model.services.reminder_management.reminder_status_changed_event_request), 289

ReminderUpdatedEventRequest (class in ask_sdk_model.services.reminder_management.reminder_updated_event_request), 290

replace (ask_sdk_model.interfaces.alexa.presentation.apl.render_document_directive.Directive (class in ask_sdk_model.interfaces.alexa.presentation.apl.render_document_directive), 99)

replace (ask_sdk_model.interfaces.alexa.presentation.apl.render_document_directive.Directive (class in ask_sdk_model.interfaces.alexa.presentation.apl.render_document_directive), 118)

render_document_directive (class in ask_sdk_model.interfaces.alexa.presentation.apl.render_document_directive), 99

render_document_directive (class in ask_sdk_model.interfaces.alexa.presentation.apl.render_document_directive), 118

rendered_document_state (class in ask_sdk_model.interfaces.alexa.presentation.apl.rendered_document_state), 100

render_template_directive (class in ask_sdk_model.interfaces.display.render_template_directive), 200

REPLACE (ask_sdk_model.er.dynamic.update_behavior.UpdateBehavior (ask_sdk_model.er.dynamic.update_behavior.UpdateBehavior attribute), 320)

REPLACE_ALL (ask_sdk_model.interfaces.audioplayer.play_behavior.PlayBehavior (ask_sdk_model.interfaces.audioplayer.play_behavior.PlayBehavior attribute), 167)

REPLACE_ALL (ask_sdk_model.ui.play_behavior.PlayBehavior (ask_sdk_model.ui.play_behavior.PlayBehavior attribute), 309)

REPLACE_ENQUEUED (ask_sdk_model.interfaces.audioplayer.play_behavior.PlayBehavior (ask_sdk_model.interfaces.audioplayer.play_behavior.PlayBehavior attribute), 309)

REPLACE_ENQUEUED (ask_sdk_model.ui.play_behavior.PlayBehavior (ask_sdk_model.ui.play_behavior.PlayBehavior attribute), 309)

Request (class in ask_sdk_model.request), 320

Request (class in ask_smapi_model.v1.skill.manifest.request), 320

request_attributes (ask_sdk_model.request.request_attributes), 320

REQUEST_BODY_CREDENTIALS (ask_smapi_model.v1.skill.account_linking.access_token_scheme.AccessTokenScheme (ask_smapi_model.v1.skill.account_linking.access_token_scheme.AccessTokenScheme attribute), 285)

request_feedback_from_testers_v1() (ask_sdk_model.request.request_feedback_from_testers_v1()), 285

<code>(ask_smapi_model.services.skill_management.skill_management_service_client.skill_management_service_client)</code>	<code>Resolution</code> (class in <code>ask_sdk_model.slu.entityresolution.resolution</code>), 303
<code>request_handler(ask_sdk_runtime.dispatch_components.request_components.GenericRequestHandlerChain attribute), 7</code>	<code>ResolutionsPerAuthorityValueItems</code> (class in <code>ask_smapi_model.v1.skill.evaluations.resolutions_per_authority_value_items</code>), 433
<code>request_handler(ask_sdk.standard.StandardSkillBuilder method), 41</code>	<code>RESOURCE_LIMIT_EXCEEDED</code> (ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_permission_attribute), 415
<code>request_handler(ask_sdk_core.skill_builder.CustomSkillBuilder method), 25</code>	<code>ResourceImportStatus</code> (class in <code>ask_smapi_model.v1.skill.resource_import_status</code>), 544
<code>request_handler(ask_sdk_core.skill_builder.SkillBuilder method), 23</code>	<code>Response</code> (class in <code>ask_sdk_model.response</code>), 324
<code>request_handler(ask_sdk_runtime.dispatch_components.request_components.GenericRequestHandlerChain method), 4</code>	<code>response_interceptors</code> (ask_sdk_runtime.dispatch_components.request_components.GenericRequestHandlerChain attribute), 7
<code>request_handler(ask_sdk_runtime.skill_builder.AbstractSkillBuilder method), 12</code>	<code>response_interceptors()</code> (ask_sdk_runtime.dispatch_components.request_components.AbstractSkillBuilder method), 4
<code>request_handler_chains(ask_sdk_runtime.dispatch_components.request_components.GenericRequestHandlerChain attribute), 8</code>	<code>ResponseEnvelope</code> (class in <code>ask_sdk_model.request_envelope</code>), 325
<code>request_interceptors(ask_sdk_runtime.dispatch_components.request_components.GenericRequestHandlerChain attribute), 7</code>	<code>ResponseFactory</code> (class in <code>ask_sdk_core.response_helper</code>), 18
<code>request_interceptors(ask_sdk_runtime.dispatch_components.request_components.GenericRequestHandlerChain method), 4</code>	<code>ResponseValidationImportance</code> (class in <code>ask_smapi_model.v1.skill.validations.response_validation_importance</code>), 532
<code>RequestEnvelope</code> (class in <code>ask_sdk_model.request_envelope</code>), 324	<code>ResponseValidationStatus</code> (class in <code>ask_smapi_model.v1.skill.validations.response_validation_status</code>), 532
<code>RequestName</code> (class in <code>ask_smapi_model.v1.skill.manifest.request_name</code>), 507	<code>REQUIRED</code> (ask_smapi_model.v1.skill.manifest.gadget_support_category attribute), 493
<code>RequestVerifier</code> (class in <code>ask_sdk_webservice_support.verifier</code>), 44	<code>REQUIRED</code> (ask_smapi_model.v1.skill.validations.response_validation_importance attribute), 532
<code>REQUIRED</code> (ask_smapi_model.v1.skill.manifest.gadget_support_category attribute), 493	<code>reset_entitlement_for_product_v1()</code> (ask_smapi_model.services.skill_management.skill_management_service_client.skill_management_service_client method), 373
<code>REQUIRED</code> (ask_smapi_model.v1.skill.validations.response_validation_importance attribute), 532	<code>Resolution</code> (class in <code>ask_sdk_model.slu.entityresolution.resolution</code>), 303
<code>reset_entitlement_for_product_v1()</code> (ask_smapi_model.services.skill_management.skill_management_service_client.skill_management_service_client method), 373	<code>Resolutions</code> (class in <code>ask_sdk_model.slu.entityresolution.resolutions</code>), 304
<code>Resolution</code> (class in <code>ask_sdk_model.slu.entityresolution.resolution</code>), 303	<code>ReviewTrackingInfo</code> (class in <code>ask_smapi_model.v1.skill.certification.review_tracking_info</code>), 427
<code>Resolutions</code> (class in <code>ask_sdk_model.slu.entityresolution.resolutions</code>), 304	<code>ReviewTrackingInfoSummary</code> (class in <code>ask_smapi_model.v1.skill.certification.review_tracking_info_summary</code>), 428
<code>ResolutionsPerAuthorityItems</code> (class in <code>ask_smapi_model.v1.skill.evaluations.resolutions_per_authority_value_items</code>), 432	<code>rewind</code> (ask_sdk_model.interfaces.alexa.presentation.apl.media_command_attribute), 95
<code>ResolutionsPerAuthorityStatus</code> (class in <code>ask_smapi_model.v1.skill.evaluations.resolutions_per_authority_status</code>), 433	<code>RICH_TEXT_TYPE</code> (in module)

`ask_sdk_core.response_helper`), 18
 RichText (class in `ask_sdk_model.interfaces.display.rich_text`), 201
 RO (`ask_smapi_model.v1.isp.distribution_countries.DistributionCountries` attribute), 395
 RO (`ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries` attribute), 479
 ROLLBACK_FAILED (`ask_smapi_model.v1.skill.response_status.ResponseStatus` attribute), 544
`rollback_skill_v1()` (`ask_smapi_model.services.skill_management.skill_model.limit_skill_management_response.release_environment()` method), 373
 ROLLBACK_SUCCEEDED (`ask_smapi_model.v1.skill.response_status.ResponseStatus` attribute), 544
`RotateTransformProperty` (class in `ask_sdk_model.interfaces.alexa.presentation.apl.rotate_transform_property`), 101
 ROUND (`ask_sdk_model.interfaces.viewport.shape.Shape` attribute), 230
 ROUND (`ask_smapi_model.v1.skill.manifest.viewport_shape.viewport_shape` attribute), 520
 RS (`ask_smapi_model.v1.isp.distribution_countries.DistributionCountries` attribute), 395
 RS (`ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries` attribute), 479
 RU (`ask_smapi_model.v1.isp.distribution_countries.DistributionCountries` attribute), 395
 RU (`ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries` attribute), 479
 RUNNING (`ask_sdk_model.interfaces.geolocation.status.Status` attribute), 210
 RUNNING (`ask_smapi_model.v1.skill.beta_test.status.Status` attribute), 422
`Runtime` (class in `ask_sdk_model.interfaces.alexa.presentation.apl.runtime`), 101
`Runtime` (class in `ask_sdk_model.interfaces.alexa.presentation.apl.runtime`), 118
`Runtime` (class in `ask_sdk_model.interfaces.alexa.presentation.html.markup_model.services.reminder_management.trigger_type.TriggerType` attribute), 127
`RuntimeConfigException`, 13
`RuntimeConfiguration` (class in `ask_sdk_runtime.skill`), 9
`RuntimeConfigurationBuilder` (class in `ask_sdk_runtime.skill`), 10
 RW (`ask_smapi_model.v1.isp.distribution_countries.DistributionCountries` attribute), 395
 RW (`ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries` attribute), 479
S
 S3_CLIENT_NAME (`ask_sdk_s3.adapter.S3Adapter` attribute), 51
 S3_OBJECT_BODY_NAME (`ask_sdk_s3.adapter.S3Adapter` attribute), 51
 SA (`ask_sdk_model.services.reminder_management.recurrence_day.RecurringDay` attribute), 223
 SA (`ask_smapi_model.v1.isp.distribution_countries.DistributionCountries` attribute), 395
 SA (`ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries` attribute), 479
 SA (`ask_sdk_model.interfaces.amazonpay.model.v1.release_environment()` attribute), 142
 SANDBOX (`ask_sdk_model.interfaces.amazonpay.model.v1.release_environment()` attribute), 152
`save_attributes()`
`save_persistent_attributes()`
`ScaleTransformProperty` (class in `ask_sdk_model.interfaces.alexa.presentation.apl.scale_transform_property`), 101
 SCHEDULED_ABSOLUTE (`ask_sdk_model.services.reminder_management.trigger_type.TriggerType` attribute), 292
 SCHEDULED_RELATIVE (`ask_sdk_model.services.reminder_management.trigger_type.TriggerType` attribute), 292
`ScheduleFoodEstablishmentReservationRequest` (class in `ask_sdk_model.interfaces.connections.requests.schedule_taxi_reservation_request`), 178
`ScheduleTaxiReservationRequest` (class in `ask_sdk_model.interfaces.connections.requests.schedule_taxi_reservation_request`), 179
 SCHEMA_VALIDATION (`ask_smapi_model.v1.catalog.upload.ingestion_step_name.IngestionStepName` attribute), 384
 SCIENCE (`ask_smapi_model.v1.skill.manifest.flash_briefing_genre.FlashBriefingGenre` attribute), 492

Scope (class in ask_sdk_model.scope), 326	120
ScrollCommand (class in SendRequestDirective (class in ask_sdk_model.interfaces.alexapresentation.apl.scroll_command), 102)	183
ScrollCommand (class in SendResponseDirective (class in ask_sdk_model.interfaces.alexapresentation.aplt.scroll_command), 119)	184
ScrollToIndexCommand (class in SendSkillMessagingRequest (class in ask_sdk_model.interfaces.alexapresentation.apl.scrollTo_index_command), 103)	293
SE (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 396	SequentialCommand (class in ask_sdk_model.interfaces.alexapresentation.apl.sequential_command), 104
SE (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute), 479	SequentialCommand (class in ask_sdk_model.interfaces.alexapresentation.aplt.sequential_command), 121
Search (ask_smapi_model.v1.skill.manifest.request_name.RequestName attribute), 507	61
seek (ask_sdk_model.interfaces.alexapresentation.apl.media_command_type.MediaCommandType attribute), 96	serialize() (ask_sdk_core.serialize.DefaultSerializer), 38
SelfSigned (ask_smapi_model.v1.skill.manifest.ssl_certificate_type.SSLCertificateType attribute), 516	serialize() (ask_sdk_model.services.serializer.Serializer), 31
SellerBillingAgreementAttributes (class in ask_sdk_model.interfaces.amazonpay.model.request_seller_billing_agreement_attributes), 135	serialize() (ask_sdk_model_runtime.serializer.Serializer), 62
SellerBillingAgreementAttributes (class in ask_sdk_model.interfaces.amazonpay.model.v1.seller_billing_agreement_attributes), 153	serialize() (ask_sdk_model_runtime.serializer.Serializer), 63
SellerOrderAttributes (class in ask_sdk_model.interfaces.amazonpay.model.request_seller_order_attributes), 136	serialize() (ask_sdk_model_runtime.serializer.Serializer), 63
SellerOrderAttributes (class in ask_sdk_model.interfaces.amazonpay.model.v1.seller_order_attributes), 153	HandlerInput (class in ask_sdk_model_runtime.handler_input.HandlerInput attribute), 15
SEND (ask_sdk_model.interfaces.custom_interface_controller_filter_match_action.FilterMatchAction attribute), 188	FilterMatchAction (class in ask_sdk_model.services.service_client_factory), 301
SEND_AND_TERMINATE (ask_sdk_model.interfaces.custom_interface_controller_filter_match_action.FilterMatchAction attribute), 188	FilterMatchAction (class in ask_sdk_model.services.service_client_response), 302
send_reminder_to_testers_v1() (ask_smapi_model.services.skill_management.skill_management_services_client.SkillManagementServiceClient method), 373	SkillManagementServiceClient (class in ask_sdk_model_runtime.service_client_response), 63
send_skill_message() (ask_sdk_model.services.skill_messaging.skill_messaging_service_client.SkillMessagingServiceClient method), 294	Session (class in ask_sdk_model.session), 326
SendDirectiveDirective (class in Session (class in ask_smapi_model.v1.skill.simulations.session), ask_sdk_model.interfaces.custom_interface_controller.send_directive_directive), 189	session_attributes
SendDirectiveRequest (class in (ask_sdk_core.attributes_manager.AttributesManager ask_sdk_model.services.directive.send_directive_request), attribute), 26	237
SendEventCommand (class in ask_sdk_model.session_ended_error), 327	SessionEndedError (class in ask_sdk_model.session_ended_error_type), 104
SendEventCommand (class in ask_sdk_model.session_ended_error_type), 327	SendEventCommand (class in ask_sdk_model.interfaces.alexapresentation.aplt.send_event_command), 104

<code>ask_sdk_model.session_ended_reason</code>), 327	<code>SetPageCommand</code>	(class in	
<code>SessionEndedRequest</code> (class in	<code>ask_sdk_model.interfaces.alexa.presentation.aplt.set_page_command</code>		
<code>ask_sdk_model.session_ended_request</code>), 328	122		
<code>SessionMode</code> (class in	<code>SetStateCommand</code>	(class in	
<code>ask_smapi_model.v1.skill.simulations.session_mode</code>), 528	<code>ask_sdk_model.interfaces.alexa.presentation.aplt.set_state_command</code>		
<code>SessionResumedRequest</code> (class in	<code>setTrack</code> (<code>ask_sdk_model.interfaces.alexa.presentation.aplt.media_command</code>		
<code>ask_sdk_model.session_resumed_request</code>), 329	attribute), 96		
<code>set_annotations_for_asr_annotation_set_v1</code> (<code>ask_smapi_model.services.skill_management.skill_management_client.set_annotations_for_asr_annotation_set_v1</code>), 373	<code>setupAmazonPay</code>	(class in	
	<code>ask_sdk_model.interfaces.alexa.presentation.aplt.setup_amazon_pay</code>		
<code>set_asr_annotation_set_v1</code> (<code>ask_smapi_model.services.skill_management.skill_management_client.set_asr_annotation_set_v1</code>), 374	<code>SetupAmazonPayRequest</code>	(class in	
	<code>ask_sdk_model.interfaces.alexa.presentation.aplt.setup_amazon_pay_request</code>		
<code>set_can_fulfill_intent</code> (<code>ask_sdk_core.response_helper.ResponseFactory</code>	<code>SetupAmazonPayResult</code>	(class in	
<code>method</code>), 19	<code>ask_sdk_model.interfaces.amazonpay.response.setup_amazon_pay_result</code>		
<code>set_card</code> (<code>ask_sdk_core.response_helper.ResponseFactory</code>	<code>SetupAmazonPayResult</code>	(class in	
<code>method</code>), 18	<code>ask_sdk_model.interfaces.amazonpay.v1.setup_amazon_pay_result</code>		
<code>set_interaction_model_v1</code> (<code>ask_smapi_model.services.skill_management.skill_management_client.set_interaction_model_v1</code>), 374	<code>SetupAmazonPayResult</code>	(class in	
	<code>ask_sdk_model.interfaces.amazonpay.v1.setup_amazon_pay_result</code>		
<code>set_private_distribution_account_id_v1</code> (<code>ask_smapi_model.services.skill_management.skill_management_client.set_private_distribution_account_id_v1</code>), 375	<code>SetupAmazonPayResult</code>	(class in	
	<code>ask_sdk_model.interfaces.amazonpay.v1.setup_amazon_pay_result</code>		
<code>set_should_end_session</code> (<code>ask_sdk_core.response_helper.ResponseFactory</code>	<code>SEVEN_SEGMENT</code> (<code>ask_sdk_model.interfaces.viewport.aplt.character_form</code>		
<code>method</code>), 18	attribute), 223		
<code>set_skill_enablement_v1</code> (<code>ask_smapi_model.services.skill_management.skill_management_client.set_skill_enablement_v1</code>), 375	<code>SG</code> (<code>ask_smapi_model.v1.isp.distribution_countries.DistributionCountries</code>		
	attribute), 396		
<code>set_ssl_certificates_v1</code> (<code>ask_smapi_model.services.skill_management.skill_management_client.set_ssl_certificates_v1</code>), 375	<code>SG</code> (<code>ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC</code>		
	attribute), 479		
<code>set_subscriber_for_development_events_v0</code> (<code>ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC</code>	<code>SH</code> (<code>ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC</code>		
<code>method</code>), 375	attribute), 480		
<code>set_subscription_for_development_events_v0</code> (<code>ask_smapi_model.services.skill_management.skill_management_client.set_subscription_for_development_events_v0</code>), 376	<code>Shape</code> (class in <code>ask_sdk_model.interfaces.viewport.shape</code>), 229		
	<code>ask_sdk_model.interfaces.viewport.shape</code>		
<code>SetFocusCommand</code> (class in	<code>ShortAddress</code> (<code>ask_sdk_model.services.device_address.short_address</code>), 235		
<code>ask_sdk_model.interfaces.alexa.presentation.aplt.set_focus_command</code>			
106	<code>SG</code> (<code>ask_smapi_model.v1.isp.distribution_countries.DistributionCountries</code>		
<code>SetLightDirective</code> (class in	attribute), 396		
<code>ask_sdk_model.interfaces.gadget_controller.set_light_directive</code>			
203	<code>SIGNATURE_CERT_CHAIN_URL_HEADER</code> (in mod-		
<code>SetLightParameters</code> (class in	<code>ule</code> <code>ask_sdk_webservice_support.verifier_constants</code>), 428		
<code>ask_sdk_model.services.gadget_controller.set_light_parameters</code>			
242	<code>SIGNATURE_CERT_CHAIN_URL_KEY</code> (in module		
<code>SetPageCommand</code> (class in	<code>django_ask_sdk.skill_adapter</code>), 49		
<code>ask_sdk_model.interfaces.alexa.presentation.aplt.set_page_command</code>			
106	<code>SIGNATURE_CERT_CHAIN_URL_KEY</code> (in module		
	<code>ask_sdk_webservice_support.verifier_constants</code>),		

43		attribute), 490
SIGNATURE_KEY	(in module <code>django_ask_sdk.skill_adapter</code>), 50	<code>SKILL_ENABLED</code> (<code>ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType</code> attribute), 490
SimpleCard	(class in <code>ask_sdk_model.ui.simple_card</code>), 309	<code>SKILL_PERMISSION_ACCEPTED</code> (<code>ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType</code> attribute), 490
simulate_skill_v1()	(<code>ask_smapi_model.services.skill_management.skill_management_client.SkillManagementServiceClient</code> method), 376	(<code>ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType</code> attribute), 490
simulate_skill_v2()	(<code>ask_smapi_model.services.skill_management.skill_management_client.SkillManagementServiceClient</code> method), 376	(<code>ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType</code> attribute), 490
SimulationResult	(class in <code>ask_smapi_model.v1.skill.simulations.simulation_result</code>), 529	<code>SKILL_RESPONSE</code> (<code>ask_smapi_model.v1.skill.interaction_model.delegation_model.SkillResponse</code> attribute), 453
SimulationsApiRequest	(class in <code>ask_smapi_model.v1.skill.simulations.simulations_api_request</code>), 529	(class in <code>django_ask_sdk.skill_adapter</code>), 48
SimulationsApiResponse	(class in <code>ask_smapi_model.v1.skill.simulations.simulations_api_response</code>), 530	<code>SkillAdapter</code> (class in <code>flask_ask_sdk.skill_adapter</code>), 46
SimulationsApiResponseStatus	(class in <code>ask_smapi_model.v1.skill.simulations.simulations_api_response_status</code>), 530	<code>SkillBuilderException</code> (class in <code>ask_sdk_core.skill_builder</code>), 21
SINGLE	(<code>ask_sdk_model.interfaces.viewport.touch.Touch</code> attribute), 230	<code>SkillDisabledRequest</code> (class in <code>ask_sdk_model.events.skillevents.skill_disabled_request</code>), 77
SINGLE	(<code>ask_smapi_model.v1.skill.metrics.period.Period</code> attribute), 522	<code>SkillEnabledRequest</code> (class in <code>ask_sdk_model.events.skillevents.skill_enabled_request</code>), 78
Size	(class in <code>ask_sdk_core.utils.viewport</code>), 30	<code>skillEndedSessions</code> (<code>ask_smapi_model.v1.skill.metrics.metric.Metric</code> attribute), 522
SJ	(<code>ask_smapi_model.v1.isp.distribution_countries.DistributionCountries</code> attribute), 396	<code>SkillInteractionModelStatus</code> (class in <code>ask_smapi_model.v1.skill.skill_interaction_model_status</code>), 545
SJ	(<code>ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries</code> attribute), 480	<code>SkillManagementServiceClient</code> (class in <code>ask_sdk_model.interfaces.alexa.presentation.apl.skew_transform_property</code>), 109
SK	(<code>ask_smapi_model.v1.isp.distribution_countries.DistributionCountries</code> attribute), 396	<code>SkillManifest</code> (class in <code>ask_smapi_model.v1.skill.manifest.skill_manifest</code>), 507
SK	(<code>ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries</code> attribute), 480	<code>SkillManifestApis</code> (class in <code>ask_smapi_model.v1.skill.manifest.skill_manifest_apis</code>), 508
SkewTransformProperty	(class in <code>ask_sdk_model.interfaces.alexa.presentation.apl.skew_transform_property</code>), 109	<code>SkillManifestCustomTask</code> (class in <code>ask_smapi_model.v1.skill.manifest.skill_manifest_custom_task</code>), 509
skill	(<code>django_ask_sdk.skill_adapter.SkillAdapter</code> attribute), 49	<code>SkillManifestEndpoint</code> (class in <code>ask_smapi_model.v1.skill.manifest.skill_manifest_endpoint</code>), 509
SKILL_ACCOUNT_LINKED	(<code>ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType</code> attribute), 490	<code>SkillManifestEnvelope</code> (class in <code>ask_smapi_model.v1.skill.manifest.skill_manifest_envelope</code>), 510
skill_configuration	(<code>ask_sdk.standard.StandardSkillBuilder</code> attribute), 41	<code>SKILL_DISABLED</code> (<code>ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType</code> attribute), 490
skill_configuration	(<code>ask_sdk_core.skill_builder.CustomSkillBuilder</code> attribute), 23	
skill_configuration	(<code>ask_sdk_core.skill_builder.SkillBuilder</code> attribute), 21	
SKILL_DISABLED	(<code>ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType</code> attribute), 490	

`ask_smapi_model.v1.skill.manifest.skill_manifest_events`), `ask_smapi_model.v1.skill.interaction_model.slot_validation`,
510 466

`SkillManifestLocalizedPrivacyAndCompliance` (class in `ask_smapi_model.v1.skill.manifest.skill_manifest_localized_privacy_and_compliance`),
511 SM (`ask_smapi_model.v1.isp.distribution_countries.DistributionCountries` attribute), 30

`SkillManifestLocalizedPublishingInformation` (class in `ask_smapi_model.v1.skill.manifest.skill_manifest_localized_publishing_information`), 30
512 SMALL (`ask_sdk_model.interfaces.display.image_size.ImageSize` attribute), 480

`SkillManifestPrivacyAndCompliance` (class in `ask_smapi_model.v1.skill.manifest.skill_manifest_privacy_and_compliance`), (class in
513 `ask_smapi_sdk.smapi_builder`), 53

`SkillManifestPublishingInformation` (class in `ask_smapi_model.v1.skill.manifest.skill_manifest_publishing_information`),
514 smartHome (`ask_smapi_model.v1.skill.metrics.skill_type.SkillType` attribute), 198

`SkillMessagingServiceClient` (class in `ask_sdk_model.services.skill_messaging.skill_messaging_service_client`), (class in
293 `ask_smapi_model.v1.skill.manifest.smart_home_apis`), 547

`SkillStage` (class in `ask_sdk_model.services.proactive_events.skill_stage`), smartHomeProtocol (class in
277 `ask_smapi_model.v1.skill.manifest.smart_home_protocol`), 515

`SkillStatus` (class in `ask_smapi_model.v1.skill.skill_status`), 545 SN (`ask_smapi_model.v1.isp.distribution_countries.DistributionCountries` attribute), 396

`SkillSummary` (class in `ask_smapi_model.v1.skill.skill_summary`), SN (`ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries` attribute), 480

`SkillSummaryApis` (class in `ask_smapi_model.v1.skill.skill_summary_apis`), SO (`ask_smapi_model.v1.isp.distribution_countries.DistributionCountries` attribute), 396
547 SO (`ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries` attribute), 480

`SkillType` (class in `ask_smapi_model.v1.skill.metrics.skill_type`), SOFTWARE (`ask_smapi_model.v1.isp.tax_information_category.TaxInformationCategory` attribute), 409
523

SKIPPED (`ask_smapi_model.v1.skill.response_status.ResponseStatus` attribute), 545 `SortFieldForIntentRequestType` (class in
`ask_smapi_model.v1.skill.history.sort_field_for_intent_request_type`), 415

SL (`ask_smapi_model.v1.isp.distribution_countries.DistributionCountries` attribute), 396 `speak()` (`ask_sdk_core.response_helper.ResponseFactory` attribute), 480

SL (`ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries` attribute), 480 `SpeakDirective` (class in
`ask_sdk_model.services.directive.speak_directive`), 238

`Slot` (class in `ask_sdk_model.slot`), 329 `SpeakItemCommand` (class in
`ask_sdk_model.interfaces.alexa.presentation.apl.speak_item_command`), 109

`Slot` (class in `ask_smapi_model.v1.skill.history.slot`), 441 `SpeakListCommand` (class in
`ask_sdk_model.interfaces.alexa.presentation.apl.speak_list_command`), 110

`SlotConfirmationStatus` (class in `ask_sdk_model.slot_confirmation_status`), 330 `Speed` (class in `ask_sdk_model.interfaces.geolocation.speed`),
465 210

`SlotDefinition` (class in `ask_smapi_model.v1.skill.interaction_model.slot_definition`), 465 `SpokenInfo` (class in
`ask_sdk_model.services.reminder_management.alert_info_spoken_info`), 278

`SlotResolutions` (class in `ask_smapi_model.v1.skill.evaluations.slot_resolutions`), 435 `SpokenText` (class in
`ask_sdk_model.services.reminder_management.spoken_text`), 290

`SlotType` (class in `ask_smapi_model.v1.skill.interaction_model.slot_type`), 465

`SlotValidation` (class in `ask_sdk_model.interfaces.alexa.presentation.apl.slot_validation`), SPORTS (`ask_smapi_model.v1.skill.manifest.flash_briefing_genre.FlashBriefingGenre` attribute), 466

attribute), 492
 SR (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 396
 SR (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 480
 SSLCertificatePayload (class in *ask_smapi_model.v1.skill.ssl_certificate_payload*), 547
 SSLCertificateType (class in *ask_smapi_model.v1.skill.manifest.ssl_certificate_type*), 516
 SSML (*ask_smapi_model.v1.skill.interaction_model.prompt_items_type.PromptItemsType* attribute), 464
 SsmlOutputSpeech (class in *ask_sdk_model.ui.ssmml_output_speech*), 310
 ssmmlToSpeech (*ask_sdk_model.interfaces.alexa.presentation.html.start_request_method.StartRequestMethod* attribute), 129
 ssmmlToText (*ask_sdk_model.interfaces.alexa.presentation.html.start_request_method.StartRequestMethod* attribute), 129
 ST (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 396
 ST (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 480
 stage (*ask_smapi_model.v1.skill.history.sort_field_for_interactions.SortFieldForInteractions* attribute), 441
 Stage (class in *ask_smapi_model.v1.isp.stage*), 406
 StageForMetric (class in *ask_smapi_model.v1.skill.metrics.stage_for_metric*), 523
 StageType (class in *ask_smapi_model.v1.stage_type*), 557
 StageV2Type (class in *ask_smapi_model.v1.stage_v2_type*), 557
 STANDARD (*ask_sdk_model.interfaces.viewport.presentation_type.PresentationType* attribute), 229
 StandardCard (class in *ask_sdk_model.ui.standard_card*), 310
 StandardizedError (class in *ask_smapi_model.v1.skill.standardized_error*), 548
 StandardSkillBuilder (class in *ask_sdk.standard*), 39
 StandardSmapiClientBuilder (class in *ask_smapi_sdk.smapi_builder*), 53
 start (*ask_sdk_model.services.game_engine.pattern_recognizer_anchor_type.PatternRecognizerAnchorType* attribute), 248
 start_beta_test_v1 () (*ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient* method), 377
 StartConnectionDirective (class in *ask_sdk_model.interfaces.connections.v1.start_connection_directive.StartConnectionDirective* attribute), 180
 StartDirective (class in *ask_sdk_model.interfaces.alexa.presentation.html.start_directive.StartDirective* attribute), 422
 STARTING (*ask_smapi_model.v1.skill.beta_test.status.Status* attribute), 422
 StartInputHandlerDirective (class in *ask_sdk_model.interfaces.game_engine.start_input_handler_directive.StartInputHandlerDirective* attribute), 205
 StartRequestMethod (class in *ask_sdk_model.interfaces.alexa.presentation.html.start_request_method.StartRequestMethod* attribute), 128
 StartRequestType (class in *ask_sdk_model.interfaces.alexa.presentation.html.start_request_method.StartRequestMethod* attribute), 143
 StartType (class in *ask_sdk_model.interfaces.amazonpay.model.response.state_start_type.StateStartType* attribute), 154
 Status (class in *ask_sdk_model.interfaces.amazonpay.model.v1.state*), 154
 Status (class in *ask_sdk_model.interfaces.geolocation.status*), 210
 Status (class in *ask_sdk_model.services.monetization.status*), 273
 Status (class in *ask_sdk_model.services.reminder_management.status*), 291
 Status (class in *ask_sdk_model.slu.entityresolution.status*), 304
 Status (class in *ask_sdk_model.status*), 330
 Status (class in *ask_smapi_model.v1.isp.status*), 407
 StatusType (class in *ask_smapi_model.v1.skill.beta_test.status*), 422
 StatusType (class in *ask_smapi_model.v1.skill.status*), 548
 StatusCode (class in *ask_sdk_model.slu.entityresolution.status_code*), 305
 StopDirective (class in *ask_sdk_model.interfaces.audioplayer.stop_directive*), 171
 StopEventHandlerDirective (class in *ask_sdk_model.interfaces.custom_interface_controller.stop_event_handler_directive.StopEventHandlerDirective* attribute), 200
 StopInputHandlerDirective (class in *ask_sdk_model.interfaces.game_engine.stop_input_handler_directive.StopInputHandlerDirective* attribute), 200
 StopServiceClient (*ask_sdk_model.interfaces.audioplayer.player_activity.PlayerActivity* attribute), 171
 STOPPED (*ask_sdk_model.interfaces.geolocation.status.Status* attribute), 210
 STOPPING (*ask_smapi_model.v1.skill.beta_test.status.Status* attribute), 422

Stream (class in ask_sdk_model.interfaces.audioplayer.stream), 172

ask_smapi_model.v1.isp.summary_marketplace_pricing), 408

STREAMING_AUDIO (ask_smapi_model.v1.isp.tax_information_category.TaxInformationCategory (class in attribute), 409 ask_smapi_model.v1.isp.summary_price_listing), 408

STREAMING_RADIO (ask_smapi_model.v1.isp.tax_information_category.TaxInformationCategory (class in attribute), 409 SupportedInterfaces (class in ask_sdk_model.supported_interfaces), 331

string (ask_smapi_model.v1.skill.validation_data_types.ValidationDataTypes (class in attribute), 550 supports () (ask_sdk_core.skill.CustomSkill method), 5

SU (ask_sdk_model.services.reminder_management.recurrence_day.RecurrenceDay (class in attribute), 283 supports () (ask_sdk_runtime.dispatch_components.request_component method), 5

submit_skill_for_certification_v1 () (ask_smapi_model.services.skill_management.skills_management_skill_management_service_client method), 377 supports () (ask_sdk_client.skill_management_service_client method), 8

submit_skill_validation_v1 () (ask_smapi_model.services.skill_management.skills_management_skill_management_service_client method), 377 supports () (ask_sdk_runtime.skill.AbstractSkill method), 377

SubmitSkillForCertificationRequest (class in ask_smapi_model.v1.skill.submit_skill_for_certification_request), 311 supports_multiple_types

SUBSCRIPTION (ask_sdk_model.services.monetization.product_type.ProductType (class in attribute), 271 ask_sdk_model.canfulfill.can_fulfill_intent.CanFulfillIntent (class in attribute), 66

SUBSCRIPTION (ask_smapi_model.v1.isp.product_type.ProductType (class in attribute), 405 supports_multiple_types (ask_sdk_model.canfulfill.can_fulfill_intent_request.CanFulfillIntentRequest (class in attribute), 66

SubscriptionInformation (class in ask_smapi_model.v1.isp.subscription_information), 407 supports_multiple_types (ask_sdk_model.canfulfill.can_fulfill_slot.CanFulfillSlot (class in attribute), 67

SubscriptionPaymentFrequency (class in ask_smapi_model.v1.isp.subscription_payment_frequency), 407 supports_multiple_types (ask_sdk_model.cause.Cause (class in attribute), 67

SUCCEEDED (ask_smapi_model.v1.catalog.upload.ingestion_status.IngestionStatus (class in attribute), 384 supports_multiple_types

SUCCEEDED (ask_smapi_model.v1.catalog.upload.upload_status.UploadStatus (class in attribute), 386 ask_sdk_model.connection_completed.ConnectionCompleted (class in attribute), 312

SUCCEEDED (ask_smapi_model.v1.skill.certification.certification_status.CertificationStatus (class in attribute), 424 (ask_sdk_model.context.Context (class in attribute), 69

SUCCEEDED (ask_smapi_model.v1.skill.interaction_model.catalog_catalog_status_type.CatalogStatusType (class in attribute), 445 supports_multiple_types

SUCCEEDED (ask_smapi_model.v1.skill.response_status.ResponseStatus (class in attribute), 545 ask_sdk_model.device.Device (class in attribute), 314

SUCCEEDED (ask_smapi_model.v1.skill.status.Status (class in attribute), 548 supports_multiple_types (ask_sdk_model.dialog.confirm_intent_directive.ConfirmIntentDirective (class in attribute), 69

SUCCESSFUL (ask_smapi_model.v1.skill.simulations.simulations_api_response_status.SimulationsApiResponseStatus (class in attribute), 530 supports_multiple_types

SUCCESSFUL (ask_smapi_model.v1.skill.validations.response_validation_status.ResponseValidationStatus (class in attribute), 532 (ask_sdk_model.dialog.confirm_slot_directive.ConfirmSlotDirective (class in attribute), 69

SUCCESSFUL (ask_smapi_model.v1.skill.validations.validations_api_response_status.ValidationsApiResponseStatus (class in attribute), 534 (ask_sdk_model.dialog.delegate_directive.DelegateDirective (class in attribute), 69

successfulSessions (ask_smapi_model.v1.skill.metrics.metric.Metric (class in attribute), 522 supports_multiple_types (ask_sdk_model.dialog.dynamic_entities_directive.DynamicEntitiesDirective (class in attribute), 70

successfulUtterances (ask_smapi_model.v1.skill.metrics.metric.Metric (class in attribute), 522 supports_multiple_types (ask_sdk_model.dialog.elicit_slot_directive.ElicitSlotDirective (class in attribute), 70

SummaryMarketplacePricing (class in attribute), 70

supports_multiple_types (ask_sdk_model.directive.Directive attribute), 316	(ask_sdk_model.interfaces.alexa.presentation.apl.animate_item_co attribute), 81
supports_multiple_types (ask_sdk_model.er.dynamic.entity.Entity attribute), 71	supports_multiple_types (ask_sdk_model.interfaces.alexa.presentation.apl.animated_opac attribute), 81
supports_multiple_types (ask_sdk_model.er.dynamic.entity_list_item.EntityListItem attribute), 71	supports_multiple_types (ask_sdk_model.interfaces.alexa.presentation.apl.animated_prop attribute), 82
supports_multiple_types (ask_sdk_model.er.dynamic.entity_value_and_synonyms.EntityValueAndSynonyms attribute), 72	supports_multiple_types (ask_sdk_model.interfaces.alexa.presentation.apl.animated_trans attribute), 82
supports_multiple_types (ask_sdk_model.events.skillevents.account_linked_body.AccountLinkedBody attribute), 73	supports_multiple_types (ask_sdk_model.interfaces.alexa.presentation.apl.auto_page_com attribute), 83
supports_multiple_types (ask_sdk_model.events.skillevents.account_linked_request.AccountLinkedRequest attribute), 74	supports_multiple_types (ask_sdk_model.interfaces.alexa.presentation.apl.clear_focus_co attribute), 83
supports_multiple_types (ask_sdk_model.events.skillevents.permission.Permission attribute), 74	supports_multiple_types (ask_sdk_model.interfaces.alexa.presentation.apl.command.Com attribute), 86
supports_multiple_types (ask_sdk_model.events.skillevents.permission_accepted_request.PermissionAcceptedRequest attribute), 75	supports_multiple_types (ask_sdk_model.interfaces.alexa.presentation.apl.component_ent attribute), 85
supports_multiple_types (ask_sdk_model.events.skillevents.permission_body.PermissionBody), 75	supports_multiple_types (ask_sdk_model.interfaces.alexa.presentation.apl.component_visi attribute), 88
supports_multiple_types (ask_sdk_model.events.skillevents.permission_changed_request.PermissionChangedRequest attribute), 76	supports_multiple_types (ask_sdk_model.interfaces.alexa.presentation.apl.component_visi attribute), 88
supports_multiple_types (ask_sdk_model.events.skillevents.proactive_subscription_changed_body.ProactiveSubscriptionChangedBody attribute), 76	supports_multiple_types (ask_sdk_model.interfaces.alexa.presentation.apl.component_visi attribute), 89
supports_multiple_types (ask_sdk_model.events.skillevents.proactive_subscription_changed_request.ProactiveSubscriptionChangedRequest attribute), 77	supports_multiple_types (ask_sdk_model.interfaces.alexa.presentation.apl.component_visi attribute), 90
supports_multiple_types (ask_sdk_model.events.skillevents.proactive_subscription_event.ProactiveSubscriptionEvent attribute), 77	supports_multiple_types (ask_sdk_model.interfaces.alexa.presentation.apl.component_visi attribute), 91
supports_multiple_types (ask_sdk_model.events.skillevents.skill_disabled_request.SkillDisabledRequest attribute), 78	supports_multiple_types (ask_sdk_model.interfaces.alexa.presentation.apl.component_visi attribute), 91
supports_multiple_types (ask_sdk_model.events.skillevents.skill_enabled_request.SkillEnabledRequest attribute), 78	supports_multiple_types (ask_sdk_model.interfaces.alexa.presentation.apl.component_visi attribute), 91
supports_multiple_types (ask_sdk_model.intent.Intent attribute), 317	supports_multiple_types (ask_sdk_model.interfaces.alexa.presentation.apl.component_visi attribute), 93
supports_multiple_types (ask_sdk_model.intent_request.IntentRequest attribute), 318	supports_multiple_types (ask_sdk_model.interfaces.alexa.presentation.apl.control_media attribute), 94
supports_multiple_types (ask_sdk_model.interfaces.alexa.presentation.apl.alexa_presentation.apl.alexa_presentation.apl.execute_command attribute), 79	supports_multiple_types (ask_sdk_model.interfaces.alexa.presentation.apl.execute_comma attribute), 95
supports_multiple_types	supports_multiple_types

<code>(ask_sdk_model.interfaces.alexa.presentation.apl.idle_command_attribute)</code> , 96	<code>(ask_sdk_model.interfaces.alexa.presentation.apl.skew_transform_attribute)</code> , 109
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.move_transform_attribute)</code> , 96	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.speak_item_command_attribute)</code> , 110
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.open_url_command_attribute)</code> , 97	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.speak_list_command_attribute)</code> , 111
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.parallel_command_attribute)</code> , 98	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.transform_property_attribute)</code> , 111
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.play_media_command_attribute)</code> , 99	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.user_event.UseAttribute)</code> , 112
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.render_document_attribute)</code> , 100	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.video_source.VideoDirectiveAttribute)</code> , 112
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.rendered_command_attribute)</code> , 100	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.alexa_presentation_attribute)</code> , 113
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.rotate_transform_attribute)</code> , 101	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.auto_page_command_attribute)</code> , 114
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.runtime.CommandAttribute)</code> , 101	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.command.CommandAttribute)</code> , 115
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.scale_transform_attribute)</code> , 102	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.execute_command_attribute)</code> , 116
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.scroll_command_attribute)</code> , 102	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.idle_command_attribute)</code> , 116
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.scroll_to_index_command_attribute)</code> , 103	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.parallel_command_attribute)</code> , 117
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.send_event_command_attribute)</code> , 104	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.render_document_attribute)</code> , 118
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.sequential_command_attribute)</code> , 105	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.runtime.RuntimeAttribute)</code> , 118
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.set_focus_command_attribute)</code> , 106	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.scroll_command_attribute)</code> , 119
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.set_page_command_attribute)</code> , 107	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.send_event_command_attribute)</code> , 120
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.set_state_command_attribute)</code> , 108	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.sequential_command_attribute)</code> , 122
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.set_value_command_attribute)</code> , 108	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.alexa.presentation.apl.set_page_command_attribute)</code> , 122
<code>supports_multiple_types</code>	<code>supports_multiple_types</code>

<code>(ask_sdk_model.interfaces.amazonpay.response.amazon_pay_response.PlaybackFinishedRequestAttribute)</code> , 157	<code>(ask_sdk_model.interfaces.amazonpay.response.amazon_pay_response.PlaybackFinishedRequestAttribute)</code> , 169
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.amazonpay.response.charge_amazon_pay_response.PlaybackNearlyFinishedRequestAttribute)</code> , 158	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.amazonpay.response.charge_amazon_pay_response.PlaybackNearlyFinishedRequestAttribute)</code> , 169
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.amazonpay.response.setup_amazon_pay_response.PlaybackStartedRequestAttribute)</code> , 158	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.amazonpay.response.setup_amazon_pay_response.PlaybackStartedRequestAttribute)</code> , 170
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.amazonpay.v1.amazon_pay_error_response.PlaybackStoppedRequestAttribute)</code> , 159	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.amazonpay.v1.amazon_pay_error_response.PlaybackStoppedRequestAttribute)</code> , 171
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.amazonpay.v1.charge_amazon_pay_response.PlaybackStoppedRequestAttribute)</code> , 160	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.amazonpay.v1.charge_amazon_pay_response.PlaybackStoppedRequestAttribute)</code> , 171
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.amazonpay.v1.charge_amazon_pay_response.PlaybackStream.StreamAttribute)</code> , 160	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.amazonpay.v1.charge_amazon_pay_response.PlaybackStream.StreamAttribute)</code> , 172
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.amazonpay.v1.setup_amazon_pay_response.PlaybackStream.StreamAttribute)</code> , 161	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.amazonpay.v1.setup_amazon_pay_response.PlaybackStream.StreamAttribute)</code> , 173
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.amazonpay.v1.setup_amazon_pay_response.PlaybackStream.StreamAttribute)</code> , 162	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.amazonpay.v1.setup_amazon_pay_response.PlaybackStream.StreamAttribute)</code> , 181
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.audioplayer.audio_item.AudioItemAttribute)</code> , 162	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.audioplayer.audio_item.AudioItemAttribute)</code> , 182
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.audioplayer.audio_item_metadata.AudioItemMetadataAttribute)</code> , 163	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.audioplayer.audio_item_metadata.AudioItemMetadataAttribute)</code> , 183
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.audioplayer.audio_player_interface.AudioPlayerInterfaceAttribute)</code> , 163	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.audioplayer.audio_player_interface.AudioPlayerInterfaceAttribute)</code> , 174
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.audioplayer.audio_player_state.AudioPlayerStateAttribute)</code> , 164	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.audioplayer.audio_player_state.AudioPlayerStateAttribute)</code> , 174
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.audioplayer.caption_data.CaptionDataAttribute)</code> , 164	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.audioplayer.caption_data.CaptionDataAttribute)</code> , 175
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.audioplayer.clear_queue_directive.ClearQueueDirectiveAttribute)</code> , 165	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.audioplayer.clear_queue_directive.ClearQueueDirectiveAttribute)</code> , 176
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.audioplayer.current_playback_status.AudioPlayerCurrentPlaybackStatusAttribute)</code> , 166	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.audioplayer.current_playback_status.AudioPlayerCurrentPlaybackStatusAttribute)</code> , 177
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.audioplayer.error.ErrorAttribute)</code> , 166	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.audioplayer.error.ErrorAttribute)</code> , 177
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.audioplayer.play_directive.PlayDirectiveAttribute)</code> , 167	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.audioplayer.play_directive.PlayDirectiveAttribute)</code> , 178
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.audioplayer.playback_failed_request.AudioPlayerPlaybackFailedRequestAttribute)</code> , 168	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.audioplayer.playback_failed_request.AudioPlayerPlaybackFailedRequestAttribute)</code> , 178
<code>supports_multiple_types</code>	<code>supports_multiple_types</code>

<code>(ask_sdk_model.interfaces.connections.requests.schedule_task)</code>	<code>(ask_sdk_model.interfaces.connections.requests.schedule_task)</code>
attribute), 179	attribute), 194
supports_multiple_types	supports_multiple_types
<code>(ask_sdk_model.interfaces.connections.send_request_directly)</code>	<code>(ask_sdk_model.interfaces.connections.send_request_directly)</code>
attribute), 183	attribute), 194
supports_multiple_types	supports_multiple_types
<code>(ask_sdk_model.interfaces.connections.send_response_directly)</code>	<code>(ask_sdk_model.interfaces.connections.send_response_directly)</code>
attribute), 184	attribute), 195
supports_multiple_types	supports_multiple_types
<code>(ask_sdk_model.interfaces.connections.v1.start_connection)</code>	<code>(ask_sdk_model.interfaces.connections.v1.start_connection)</code>
attribute), 180	attribute), 195
supports_multiple_types	supports_multiple_types
<code>(ask_sdk_model.interfaces.custom_interface_controller.end_task)</code>	<code>(ask_sdk_model.interfaces.display.hint.Hint)</code>
attribute), 184	attribute), 196
supports_multiple_types	supports_multiple_types
<code>(ask_sdk_model.interfaces.custom_interface_controller.event)</code>	<code>(ask_sdk_model.interfaces.display.hint_directive.HintDirective)</code>
attribute), 185	attribute), 196
supports_multiple_types	supports_multiple_types
<code>(ask_sdk_model.interfaces.custom_interface_controller.event_filter)</code>	<code>(ask_sdk_model.interfaces.display.image.Image)</code>
attribute), 186	attribute), 197
supports_multiple_types	supports_multiple_types
<code>(ask_sdk_model.interfaces.custom_interface_controller.event_filter_instance)</code>	<code>(ask_sdk_model.interfaces.display.image_instance.ImageInstance)</code>
attribute), 186	attribute), 197
supports_multiple_types	supports_multiple_types
<code>(ask_sdk_model.interfaces.custom_interface_controller.expire)</code>	<code>(ask_sdk_model.interfaces.display.list_item.ListItem)</code>
attribute), 187	attribute), 198
supports_multiple_types	supports_multiple_types
<code>(ask_sdk_model.interfaces.custom_interface_controller.expire_request)</code>	<code>(ask_sdk_model.interfaces.display.list_template1.ListTemplate1)</code>
attribute), 188	attribute), 199
supports_multiple_types	supports_multiple_types
<code>(ask_sdk_model.interfaces.custom_interface_controller.head)</code>	<code>(ask_sdk_model.interfaces.display.list_template2.ListTemplate2)</code>
attribute), 188	attribute), 199
supports_multiple_types	supports_multiple_types
<code>(ask_sdk_model.interfaces.custom_interface_controller.send_directive)</code>	<code>(ask_sdk_model.interfaces.display.plain_text.PlainText)</code>
attribute), 189	attribute), 200
supports_multiple_types	supports_multiple_types
<code>(ask_sdk_model.interfaces.custom_interface_controller.start)</code>	<code>(ask_sdk_model.interfaces.display.plain_text_hint.PlainTextHint)</code>
attribute), 190	attribute), 200
supports_multiple_types	supports_multiple_types
<code>(ask_sdk_model.interfaces.custom_interface_controller.stop)</code>	<code>(ask_sdk_model.interfaces.display.plain_text_hint_directive.PlainTextHintDirective)</code>
attribute), 190	attribute), 200
supports_multiple_types	supports_multiple_types
<code>(ask_sdk_model.interfaces.display.body_template1.BodyTemplate1)</code>	<code>(ask_sdk_model.interfaces.display.rich_text.RichText)</code>
attribute), 191	attribute), 201
supports_multiple_types	supports_multiple_types
<code>(ask_sdk_model.interfaces.display.body_template2.BodyTemplate2)</code>	<code>(ask_sdk_model.interfaces.display.template.Template)</code>
attribute), 192	attribute), 202
supports_multiple_types	supports_multiple_types
<code>(ask_sdk_model.interfaces.display.body_template3.BodyTemplate3)</code>	<code>(ask_sdk_model.interfaces.display.text_content.TextContent)</code>
attribute), 193	attribute), 202
supports_multiple_types	supports_multiple_types
<code>(ask_sdk_model.interfaces.display.body_template6.BodyTemplate6)</code>	<code>(ask_sdk_model.interfaces.display.text_field.TextField)</code>
attribute), 193	attribute), 203
supports_multiple_types	supports_multiple_types

<code>(ask_sdk_model.interfaces.gadget_controller.set_light_direction_directive.LightDirective)</code> , 204	<code>(ask_sdk_model.interfaces.gadget_controller.set_light_directive.LightDirective)</code> , 216
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.game_engine.input_handler_event_listener.EventListener)</code> , 205	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.game_engine.input_handler_event_listener.EventListener)</code> , 216
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.game_engine.start_input_handler_event_listener.EventListener)</code> , 205	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.game_engine.start_input_handler_event_listener.EventListener)</code> , 217
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.game_engine.stop_input_handler_event_listener.EventListener)</code> , 206	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.game_engine.stop_input_handler_event_listener.EventListener)</code> , 218
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.geolocation.altitude.Altitude)</code> , 207	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.system.system_state.SystemState)</code> , 218
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.geolocation.coordinate.Coordinate)</code> , 207	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.tasks.complete_task_directive.CompleteTaskDirective)</code> , 219
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.geolocation.geolocation_interface.GeolocationInterface)</code> , 208	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.videoapp.launch_directive.LaunchDirective)</code> , 220
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.geolocation.geolocation_state.GeolocationState)</code> , 208	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.videoapp.metadata.Metadata)</code> , 220
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.geolocation.heading.Heading)</code> , 209	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.videoapp.video_app_interface.VideoAppInterface)</code> , 220
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.geolocation.location_services.LocationServices)</code> , 209	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.videoapp.video_item.VideoItem)</code> , 221
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.geolocation.speed.Speed)</code> , 210	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.viewport.apl.current_configuration.CurrentConfiguration)</code> , 222
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.messaging.message_received_request.MessageReceivedRequest)</code> , 211	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.viewport.apl.viewport_configuration.ViewportConfiguration)</code> , 222
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.monetization.v1.in_skill_product.InSkillProduct)</code> , 212	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.viewport.apl_viewport_state.APLViewportState)</code> , 227
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.navigation.assistance.announce_directive.AnnounceDirective)</code> , 213	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.viewport.apl_viewport_state.APLViewportState)</code> , 223
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.navigation.navigation_interface.NavigationInterface)</code> , 213	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.viewport.apl_viewport_state.APLViewportState)</code> , 228
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.playbackcontroller.next_command_request.NextCommandRequest)</code> , 214	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.viewport.apl_viewport_state.APLViewportState)</code> , 228
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.playbackcontroller.pause_command_request.PauseCommandRequest)</code> , 215	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.viewport.apl_viewport_state.APLViewportState)</code> , 224
<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.playbackcontroller.play_command_request.PlayCommandRequest)</code> , 215	<code>supports_multiple_types</code> <code>(ask_sdk_model.interfaces.viewport.apl_viewport_state.APLViewportState)</code> , 224
<code>supports_multiple_types</code>	<code>supports_multiple_types</code>

(*ask_sdk_model.interfaces.viewport.size.viewport_size.ViewportSize* attribute), 237

supports_multiple_types (*ask_sdk_model.services.directive.send_directive_request.SendDirectiveRequest* attribute), 235

supports_multiple_types (*ask_sdk_model.interfaces.viewport.typed_viewport_state.TypedViewportState* attribute), 231

supports_multiple_types (*ask_sdk_model.interfaces.viewport.viewport_state.ViewportState* attribute), 232

supports_multiple_types (*ask_sdk_model.interfaces.viewport.viewport_state_video.Video* attribute), 232

supports_multiple_types (*ask_sdk_model.interfaces.viewport.viewport_video.ViewportVideo* attribute), 232

supports_multiple_types (*ask_sdk_model.launch_request.LaunchRequest* attribute), 319

supports_multiple_types (*ask_sdk_model.permissions.Permissions* attribute), 320

supports_multiple_types (*ask_sdk_model.person.Person* attribute), 320

supports_multiple_types (*ask_sdk_model.request.Request* attribute), 324

supports_multiple_types (*ask_sdk_model.request_envelope.RequestEnvelope* attribute), 324

supports_multiple_types (*ask_sdk_model.response.Response* attribute), 325

supports_multiple_types (*ask_sdk_model.response_envelope.ResponseEnvelope* attribute), 325

supports_multiple_types (*ask_sdk_model.scope.Scope* attribute), 326

supports_multiple_types (*ask_sdk_model.services.device_address.address.Address* attribute), 234

supports_multiple_types (*ask_sdk_model.services.device_address.error.Error* attribute), 235

supports_multiple_types (*ask_sdk_model.services.device_address.short_address.ShortAddress* attribute), 235

supports_multiple_types (*ask_sdk_model.services.directive.directive.Directive* attribute), 236

supports_multiple_types (*ask_sdk_model.services.directive.error.Error* attribute), 237

supports_multiple_types (*ask_sdk_model.services.directive.header.Header* attribute), 237

supports_multiple_types (*ask_sdk_model.services.directive.send_directive_request.SendDirectiveRequest* attribute), 235

supports_multiple_types (*ask_sdk_model.interfaces.viewport.typed_viewport_state.TypedViewportState* attribute), 231

supports_multiple_types (*ask_sdk_model.services.directive.speak_directive.SpeakDirective* attribute), 238

supports_multiple_types (*ask_sdk_model.services.endpoint_enumeration.endpoint_capability.EndpointCapability* attribute), 238

supports_multiple_types (*ask_sdk_model.services.endpoint_enumeration.endpoint_enumeration.EndpointEnumeration* attribute), 239

supports_multiple_types (*ask_sdk_model.services.endpoint_enumeration.endpoint_info.EndpointInfo* attribute), 240

supports_multiple_types (*ask_sdk_model.services.endpoint_enumeration.error.Error* attribute), 240

supports_multiple_types (*ask_sdk_model.services.gadget_controller.animation_step.AnimationStep* attribute), 241

supports_multiple_types (*ask_sdk_model.services.gadget_controller.light_animation.LightAnimation* attribute), 242

supports_multiple_types (*ask_sdk_model.services.gadget_controller.set_light_parameters.SetLightParameters* attribute), 242

supports_multiple_types (*ask_sdk_model.services.game_engine.deviation_recognizer.DeviationRecognizer* attribute), 243

supports_multiple_types (*ask_sdk_model.services.game_engine.event.Event* attribute), 244

supports_multiple_types (*ask_sdk_model.services.game_engine.input_event.InputEvent* attribute), 245

supports_multiple_types (*ask_sdk_model.services.game_engine.input_handler_event.InputHandlerEvent* attribute), 246

supports_multiple_types (*ask_sdk_model.services.game_engine.pattern.Pattern* attribute), 246

supports_multiple_types (*ask_sdk_model.services.game_engine.pattern_recognizer.PatternRecognizer* attribute), 247

supports_multiple_types (*ask_sdk_model.services.game_engine.progress_recognizer.ProgressRecognizer* attribute), 248

supports_multiple_types (*ask_sdk_model.services.game_engine.recognizer.Recognizer* attribute), 249

supports_multiple_types (*ask_sdk_model.services.list_management.alex_list.AlexaList* attribute), 250

attribute), 250
 supports_multiple_types
 (ask_sdk_model.services.list_management.alex_list_item.AlexaListItem
 attribute), 250
 supports_multiple_types
 (ask_sdk_model.services.list_management.alex_list_metadata.AlexaListMetadata
 attribute), 251
 supports_multiple_types
 (ask_sdk_model.services.list_management.alex_lists_metadata.AlexaListsMetadata
 attribute), 251
 supports_multiple_types
 (ask_sdk_model.services.list_management.create_list_item.CreateListItemRequest
 attribute), 252
 supports_multiple_types
 (ask_sdk_model.services.list_management.create_list_request.CreateListRequest
 attribute), 252
 supports_multiple_types
 (ask_sdk_model.services.list_management.error.Error attribute), 253
 supports_multiple_types
 (ask_sdk_model.services.list_management.forbidden_error.ForbiddenError
 attribute), 253
 supports_multiple_types
 (ask_sdk_model.services.list_management.links.Links attribute), 253
 supports_multiple_types
 (ask_sdk_model.services.list_management.list_body.ListBody attribute), 254
 supports_multiple_types
 (ask_sdk_model.services.list_management.list_created_event.ListCreatedEvent
 attribute), 254
 supports_multiple_types
 (ask_sdk_model.services.list_management.list_deleted_event.ListDeletedEvent
 attribute), 255
 supports_multiple_types
 (ask_sdk_model.services.list_management.list_item_body.ListItemBody
 attribute), 255
 supports_multiple_types
 (ask_sdk_model.services.list_management.list_items_created_event.ListItemsCreatedEvent
 attribute), 256
 supports_multiple_types
 (ask_sdk_model.services.list_management.list_items_deleted_event.ListItemsDeletedEvent
 attribute), 257
 supports_multiple_types
 (ask_sdk_model.services.list_management.list_items_updated_event.ListItemsUpdatedEvent
 attribute), 258
 supports_multiple_types
 (ask_sdk_model.services.list_management.list_updated_event.ListUpdatedEvent
 attribute), 261
 supports_multiple_types
 (ask_sdk_model.services.list_management.status.Status attribute), 262
 supports_multiple_types
 (ask_sdk_model.services.list_management.update_list_item.UpdateListItemRequest
 attribute), 262
 supports_multiple_types
 (ask_sdk_model.services.list_management.update_list_request.UpdateListRequest
 attribute), 263
 supports_multiple_types
 (ask_sdk_model.services.monetization.error.Error attribute), 267
 supports_multiple_types
 (ask_sdk_model.services.monetization.in_skill_product.InSkillProduct
 attribute), 268
 supports_multiple_types
 (ask_sdk_model.services.monetization.in_skill_product_transaction.InSkillProductTransaction
 attribute), 268
 supports_multiple_types
 (ask_sdk_model.services.monetization.in_skill_products_response.InSkillProductsResponse
 attribute), 269
 supports_multiple_types
 (ask_sdk_model.services.monetization.metadata.Metadata attribute), 269
 supports_multiple_types
 (ask_sdk_model.services.monetization.result_set.ResultSet attribute), 272
 supports_multiple_types
 (ask_sdk_model.services.monetization.transactions.Transactions
 attribute), 274
 supports_multiple_types
 (ask_sdk_model.services.proactive_events.create_proactive_event.CreateProactiveEventRequest
 attribute), 275
 supports_multiple_types
 (ask_sdk_model.services.proactive_events.delete_proactive_event.DeleteProactiveEventRequest
 attribute), 275
 supports_multiple_types
 (ask_sdk_model.services.proactive_events.determine_relevant_audience.DetermineRelevantAudienceRequest
 attribute), 277
 supports_multiple_types
 (ask_sdk_model.services.proactive_events.related_event.RelatedEvent
 attribute), 278
 supports_multiple_types
 (ask_sdk_model.services.proactive_events.related_event_response.RelatedEventResponse
 attribute), 278
 supports_multiple_types
 (ask_sdk_model.services.proactive_events.related_event_response.error.Error
 attribute), 279
 supports_multiple_types
 (ask_sdk_model.services.proactive_events.related_event_response.event.Event
 attribute), 279
 supports_multiple_types
 (ask_sdk_model.services.reminder_management.get_reminder_request.GetReminderRequest
 attribute), 280
 supports_multiple_types
 (ask_sdk_model.services.reminder_management.get_reminders_request.GetRemindersRequest
 attribute), 280

attribute), 281
 supports_multiple_types (ask_sdk_model.services.reminder_management.push_notification.SessionEndedError attribute), 281
 supports_multiple_types (ask_sdk_model.services.reminder_management.recurrence.Recurrence attribute), 282
 supports_multiple_types (ask_sdk_model.services.reminder_management.reminder.Reminder attribute), 284
 supports_multiple_types (ask_sdk_model.services.reminder_management.reminder_created_event_request.CreatedEventRequest attribute), 284
 supports_multiple_types (ask_sdk_model.services.reminder_management.reminder_deleted_event_request.ReminderDeletedEventRequest attribute), 285
 supports_multiple_types (ask_sdk_model.services.reminder_management.reminder_deleted_event_request.ReminderDeletedEventRequest attribute), 285
 supports_multiple_types (ask_sdk_model.services.reminder_management.reminder_deleted_event_request.ReminderDeletedEventRequest attribute), 287
 supports_multiple_types (ask_sdk_model.services.reminder_management.reminder_deleted_event_request.ReminderDeletedEventRequest attribute), 288
 supports_multiple_types (ask_sdk_model.services.reminder_management.reminder_deleted_event_request.ReminderDeletedEventRequest attribute), 289
 supports_multiple_types (ask_sdk_model.services.reminder_management.reminder_deleted_event_request.ReminderDeletedEventRequest attribute), 289
 supports_multiple_types (ask_sdk_model.services.reminder_management.reminder_deleted_event_request.ReminderDeletedEventRequest attribute), 290
 supports_multiple_types (ask_sdk_model.services.reminder_management.reminder_deleted_event_request.ReminderDeletedEventRequest attribute), 290
 supports_multiple_types (ask_sdk_model.services.reminder_management.spoken_text.SpokenText attribute), 290
 supports_multiple_types (ask_sdk_model.services.reminder_management.trigger.Trigger attribute), 291
 supports_multiple_types (ask_sdk_model.services.skill_messaging.error.Error attribute), 292
 supports_multiple_types (ask_sdk_model.services.skill_messaging.send_skill_messaging_request.SendSkillMessagingRequest attribute), 293
 supports_multiple_types (ask_sdk_model.services.ups.error.Error attribute), 295
 supports_multiple_types (ask_sdk_model.services.ups.phone_number.PhoneNumber attribute), 296
 supports_multiple_types (ask_sdk_model.session.Session attribute), 326
 supports_multiple_types (ask_sdk_model.session_error.SessionEndedError attribute), 327
 supports_multiple_types (ask_sdk_model.session_ended_request.SessionEndedRequest attribute), 328
 supports_multiple_types (ask_sdk_model.session_resumed_request.SessionResumedRequest attribute), 329
 supports_multiple_types (ask_sdk_model.sl.event_request.EventRequest attribute), 330
 supports_multiple_types (ask_sdk_model.slu.entityresolution.resolution.Resolution attribute), 334
 supports_multiple_types (ask_sdk_model.slu.entityresolution.resolutions.Resolutions attribute), 334
 supports_multiple_types (ask_sdk_model.slu.entityresolution.resolution.Resolution attribute), 334
 supports_multiple_types (ask_sdk_model.slu.entityresolution.resolutions.Resolutions attribute), 334
 supports_multiple_types (ask_sdk_model.slu.entityresolution.status.Status attribute), 334
 supports_multiple_types (ask_sdk_model.slu.entityresolution.value.Value attribute), 335
 supports_multiple_types (ask_sdk_model.slu.entityresolution.value_wrapper.ValueWrapper attribute), 335
 supports_multiple_types (ask_sdk_model.slu.entityresolution.value_wrapper.ValueWrapper attribute), 335
 supports_multiple_types (ask_sdk_model.status.Status attribute), 335
 supports_multiple_types (ask_sdk_model.status.Status attribute), 335
 supports_multiple_types (ask_sdk_model.status.Status attribute), 335
 supports_multiple_types (ask_sdk_model.supported_interfaces.SupportedInterfaces attribute), 335
 supports_multiple_types (ask_sdk_model.supported_interfaces.SupportedInterfaces attribute), 335
 supports_multiple_types (ask_sdk_model.supported_interfaces.SupportedInterfaces attribute), 335
 supports_multiple_types (ask_sdk_model.task.Task attribute), 332
 supports_multiple_types (ask_sdk_model.task.Task attribute), 332
 supports_multiple_types (ask_sdk_model.task.Task attribute), 332
 supports_multiple_types (ask_sdk_model.ui.ask_for_permissions_consent_card.AskForPermissionsConsentCard attribute), 306
 supports_multiple_types (ask_sdk_model.ui.ask_for_permissions_consent_card.AskForPermissionsConsentCard attribute), 306
 supports_multiple_types (ask_sdk_model.ui.ask_for_permissions_consent_card.AskForPermissionsConsentCard attribute), 306
 supports_multiple_types (ask_sdk_model.ui.card.Card attribute), 307
 supports_multiple_types (ask_sdk_model.ui.card.Card attribute), 307
 supports_multiple_types (ask_sdk_model.ui.card.Card attribute), 307
 supports_multiple_types (ask_sdk_model.ui.image.Image attribute), 307
 supports_multiple_types (ask_sdk_model.ui.image.Image attribute), 307
 supports_multiple_types (ask_sdk_model.ui.image.Image attribute), 307
 supports_multiple_types (ask_sdk_model.ui.link_account_card.LinkAccountCard attribute), 307
 supports_multiple_types (ask_sdk_model.ui.link_account_card.LinkAccountCard attribute), 307
 supports_multiple_types (ask_sdk_model.ui.link_account_card.LinkAccountCard attribute), 307
 supports_multiple_types (ask_sdk_model.ui.output_speech.OutputSpeech attribute), 308
 supports_multiple_types (ask_sdk_model.ui.output_speech.OutputSpeech attribute), 308
 supports_multiple_types (ask_sdk_model.ui.output_speech.OutputSpeech attribute), 308
 supports_multiple_types (ask_sdk_model.ui.plain_text_output_speech.PlainTextOutputSpeech attribute), 309
 supports_multiple_types (ask_sdk_model.ui.plain_text_output_speech.PlainTextOutputSpeech attribute), 309
 supports_multiple_types (ask_sdk_model.ui.plain_text_output_speech.PlainTextOutputSpeech attribute), 309

(ask_sdk_model.ui.reprompt.Reprompt attribute), 309

supports_multiple_types (ask_sdk_model.ui.simple_card.SimpleCard attribute), 310

supports_multiple_types (ask_sdk_model.ui.ssm_output_speech.SsmOutputSpeech attribute), 310

supports_multiple_types (ask_sdk_model.ui.standard_card.StandardCard attribute), 310

supports_multiple_types (ask_sdk_model.user.User attribute), 332

supports_multiple_types (ask_smapi_model.v1.bad_request_error.BadRequestError attribute), 556

supports_multiple_types (ask_smapi_model.v1.catalog.create_content_upload_url_request.CreateContentUploadUrlRequest), 387

supports_multiple_types (ask_smapi_model.v1.catalog.create_content_upload_url_response.CreateContentUploadUrlResponse), 387

supports_multiple_types (ask_smapi_model.v1.catalog.presigned_upload_part_items.PreSignedUploadPartItems), 388

supports_multiple_types (ask_smapi_model.v1.catalog.upload.catalog_upload_base.CatalogUploadBase), 382

supports_multiple_types (ask_smapi_model.v1.catalog.upload.content_upload_file_status.ContentUploadFileStatus), 382

supports_multiple_types (ask_smapi_model.v1.catalog.upload.get_content_upload_response.GetContentUploadResponse), 383

supports_multiple_types (ask_smapi_model.v1.catalog.upload.location.Location attribute), 384

supports_multiple_types (ask_smapi_model.v1.catalog.upload.pre_signed_url.PreSignedUrl), 385

supports_multiple_types (ask_smapi_model.v1.catalog.upload.pre_signed_url_item.PreSignedUrlItem), 385

supports_multiple_types (ask_smapi_model.v1.catalog.upload.upload_ingestion_step.UploadIngestionStep), 386

supports_multiple_types (ask_smapi_model.v1.error.Error attribute), 556

supports_multiple_types (ask_smapi_model.v1.isp.associated_skill_response.AssociatedSkillResponse attribute), 389

supports_multiple_types (ask_smapi_model.v1.isp.create_in_skill_product_request.CreateInSkillProductRequest attribute), 389

supports_multiple_types (ask_smapi_model.v1.isp.custom_product_prompts.CustomProductPrompts attribute), 390

supports_multiple_types (ask_smapi_model.v1.isp.in_skill_product_definition.InSkillProductDefinition attribute), 398

supports_multiple_types (ask_smapi_model.v1.isp.in_skill_product_definition_response.InSkillProductDefinitionResponse attribute), 399

supports_multiple_types (ask_smapi_model.v1.isp.in_skill_product_summary.InSkillProductSummary attribute), 400

supports_multiple_types (ask_smapi_model.v1.isp.in_skill_product_summary_response.InSkillProductSummaryResponse attribute), 400

supports_multiple_types (ask_smapi_model.v1.isp.links.IspSummaryLinks attribute), 401

supports_multiple_types (ask_smapi_model.v1.isp.list_in_skill_products.ListInSkillProducts attribute), 401

supports_multiple_types (ask_smapi_model.v1.isp.list_in_skill_products_response.ListInSkillProductsResponse attribute), 401

supports_multiple_types (ask_smapi_model.v1.isp.localized_privacy_and_compliance.LocalizedPrivacyAndCompliance attribute), 402

supports_multiple_types (ask_smapi_model.v1.isp.localized_privacy_and_compliance_response.LocalizedPrivacyAndComplianceResponse attribute), 403

supports_multiple_types (ask_smapi_model.v1.isp.marketplace_pricing.MarketplacePricing attribute), 403

supports_multiple_types (ask_smapi_model.v1.isp.price_listing.PriceListing attribute), 404

supports_multiple_types (ask_smapi_model.v1.isp.privacy_and_compliance.PrivacyAndCompliance attribute), 404

supports_multiple_types (ask_smapi_model.v1.isp.product_response.ProductResponse attribute), 405

supports_multiple_types (ask_smapi_model.v1.isp.publishing_information.PublishingInformation attribute), 406

supports_multiple_types (ask_smapi_model.v1.isp.subscription_information.SubscriptionInformation attribute), 407

supports_multiple_types (ask_smapi_model.v1.isp.summary_marketplace_pricing.SummaryMarketplacePricing attribute), 408

supports_multiple_types (ask_smapi_model.v1.isp.summary_price_listing.SummaryPriceListing attribute), 408

attribute), 409
 supports_multiple_types
 (*ask_smapi_model.v1.isp.tax_information.TaxInformation* *attribute*), 409
 supports_multiple_types
 (*ask_smapi_model.v1.isp.update_in_skill_product_request.UpdateInSkillProductRequest* *attribute*), 410
 supports_multiple_types
 (*ask_smapi_model.v1.link.Link* *attribute*), 557
 supports_multiple_types
 (*ask_smapi_model.v1.links.Links* *attribute*), 557
 supports_multiple_types
 (*ask_smapi_model.v1.skill.account_linking.account_linking_request.AccountLinkingRequest* *attribute*), 412
 supports_multiple_types
 (*ask_smapi_model.v1.skill.account_linking.account_linking_response.AccountLinkingResponse* *attribute*), 413
 supports_multiple_types
 (*ask_smapi_model.v1.skill.alex_hosted.hosted_skill_info.HostedSkillInfo* *attribute*), 414
 supports_multiple_types
 (*ask_smapi_model.v1.skill.alex_hosted.hosted_skill_metadata.HostedSkillMetadata* *attribute*), 414
 supports_multiple_types
 (*ask_smapi_model.v1.skill.alex_hosted.hosted_skill_permissions.HostedSkillPermissions* *attribute*), 415
 supports_multiple_types
 (*ask_smapi_model.v1.skill.alex_hosted.hosted_skill_repository.HostedSkillRepository* *attribute*), 416
 supports_multiple_types
 (*ask_smapi_model.v1.skill.alex_hosted.hosted_skill_repository.HostedSkillRepositoryCredentials* *attribute*), 417
 supports_multiple_types
 (*ask_smapi_model.v1.skill.alex_hosted.hosted_skill_repository.HostedSkillRepositoryCredentialsResponse* *attribute*), 417
 supports_multiple_types
 (*ask_smapi_model.v1.skill.alex_hosted.hosted_skill_repository.HostedSkillRepositoryInfo* *attribute*), 418
 supports_multiple_types
 (*ask_smapi_model.v1.skill.beta_test.beta_test.BetaTest* *attribute*), 421
 supports_multiple_types
 (*ask_smapi_model.v1.skill.beta_test.test_body.TestBody* *attribute*), 422
 supports_multiple_types
 (*ask_smapi_model.v1.skill.beta_test.testers.list_testers_response.ListTestersResponse* *attribute*), 419
 supports_multiple_types
 (*ask_smapi_model.v1.skill.beta_test.testers.tester.Tester* *attribute*), 419
 supports_multiple_types
 (*ask_smapi_model.v1.skill.beta_test.testers.tester_with_details.TesterWithDetails* *attribute*), 420
 supports_multiple_types
 (*ask_smapi_model.v1.skill.beta_test.testers.testers_list.TestersList* *attribute*), 420
 supports_multiple_types
 (*ask_smapi_model.v1.skill.build_details.BuildDetails* *attribute*), 535
 supports_multiple_types
 (*ask_smapi_model.v1.skill.build_step.BuildStep* *attribute*), 535
 supports_multiple_types
 (*ask_smapi_model.v1.skill.certification.certification_response.CertificationResponse* *attribute*), 423
 supports_multiple_types
 (*ask_smapi_model.v1.skill.certification.certification_result.CertificationResult* *attribute*), 423
 supports_multiple_types
 (*ask_smapi_model.v1.skill.certification.certification_summary.CertificationSummary* *attribute*), 424
 supports_multiple_types
 (*ask_smapi_model.v1.skill.certification.distribution_info.DistributionInfo* *attribute*), 425
 supports_multiple_types
 (*ask_smapi_model.v1.skill.certification.estimate_skill_certification.EstimateSkillCertification* *attribute*), 425
 supports_multiple_types
 (*ask_smapi_model.v1.skill.certification.list_certifications_response.ListCertificationsResponse* *attribute*), 426
 supports_multiple_types
 (*ask_smapi_model.v1.skill.certification.public_notifications_failure.PublicNotificationsFailure* *attribute*), 427
 supports_multiple_types
 (*ask_smapi_model.v1.skill.certification.repository_credentials_response.RepositoryCredentialsResponse* *attribute*), 427
 supports_multiple_types
 (*ask_smapi_model.v1.skill.certification.repository_credentials_response.RepositoryCredentialsResponse* *attribute*), 428
 supports_multiple_types
 (*ask_smapi_model.v1.skill.create_skill_request.CreateSkillRequest* *attribute*), 536
 supports_multiple_types
 (*ask_smapi_model.v1.skill.create_skill_response.CreateSkillResponse* *attribute*), 537
 supports_multiple_types
 (*ask_smapi_model.v1.skill.create_skill_with_package_request.CreateSkillWithPackageRequest* *attribute*), 537
 supports_multiple_types
 (*ask_smapi_model.v1.skill.evaluations.dialog_act.DialogAct* *attribute*), 429
 supports_multiple_types
 (*ask_smapi_model.v1.skill.evaluations.intent.Intent* *attribute*), 430
 supports_multiple_types
 (*ask_smapi_model.v1.skill.evaluations.multi_turn.MultiTurn* *attribute*), 430

attribute), 455
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.dialog_prompt_item.DiscoveryPromptItem), 455
 attribute), 455
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.dialog_slot_item.DialogSlotItem), 456
 attribute), 456
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.has_entity_resolution_intent.HasEntityResolutionIntent), 457
 attribute), 457
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.intent.Intent), 457
 attribute), 457
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.interaction_model.InteractionModel), 458
 attribute), 458
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.interaction_model_intent.IntentModelIntent), 458
 attribute), 458
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.is_greater_than.IsGreaterThan), 459
 attribute), 459
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.is_greater_than_or_equal_to.IsGreaterThanOrEqualTo), 459
 attribute), 459
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.is_in_duration.IsInDuration), 460
 attribute), 460
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.is_in_set.IsInSet), 461
 attribute), 461
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.is_less_than.IsLessThan), 461
 attribute), 461
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.is_less_than_or_equal_to.IsLessThanOrEqualTo), 461
 attribute), 461
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.is_not_in_duration.IsNotInDuration), 462
 attribute), 462
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.is_not_in_set.IsNotInSet), 463
 attribute), 463
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.language_model.LanguageModel), 463
 attribute), 463
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.prompt.Prompt), 464
 attribute), 464
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.prompt_items.PromptItems), 464
 attribute), 464
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.slot_definition.SlotDefinition), 465
 attribute), 465
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.slot_type.SlotType), 466
 attribute), 466
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.slot_validation.SlotValidation), 467
 attribute), 467
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.value_catalog.ValueCatalog), 467
 attribute), 467
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.value_supplier.ValueSupplier), 468
 attribute), 468
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.version.catalog_update.CatalogUpdate), 448
 attribute), 448
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.version.catalog_value.CatalogValue), 448
 attribute), 448
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.version.catalog_version.CatalogVersion), 449
 attribute), 449
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.version.input_source.InputSource), 449
 attribute), 449
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.version.links.Links), 450
 attribute), 450
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.version.list_response.ListResponse), 450
 attribute), 450
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.version.value_schema.ValueSchema), 451
 attribute), 451
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.version.value_schema_item.ValueSchemaItem), 451
 attribute), 451
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.version.version_data.VersionData), 451
 attribute), 451
 supports_multiple_types
 (ask_smapi_model.v1.skill.interaction_model.version.version_item.VersionItem), 452
 attribute), 452
 supports_multiple_types
 (ask_smapi_model.v1.skill.list_skill_response.ListSkillResponse), 542
 attribute), 542
 supports_multiple_types
 (ask_smapi_model.v1.skill.manifest.alexa_for_business_api.AlexaForBusinessAPI), 469
 attribute), 469
 supports_multiple_types
 (ask_smapi_model.v1.skill.manifest.alexa_for_business_interface.AlexaForBusinessInterface), 469
 attribute), 469
 supports_multiple_types
 (ask_smapi_model.v1.skill.manifest.alexa_presentation_apl_interface.AlexaPresentationAPLInterface), 469
 attribute), 469

attribute), 470
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.audio_interface.AudioInterface*
attribute), 470
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.connections.Connection*
attribute), 470
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.connections_payload.ConnectionPayload*
attribute), 471
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.custom_apis.CustomApis*
attribute), 472
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.custom_connections.CustomConnections*
attribute), 472
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.custom_interface.CustomInterface*
attribute), 472
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.display_interface.DisplayInterface*
attribute), 473
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.event_name.EventName*
attribute), 482
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.event_publications.EventPublications*
attribute), 490
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.flash_briefing_apis.FlashBriefingApis*
attribute), 491
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.gadget_controller_interface.GadgetControllerInterface*
attribute), 493
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.game_engine_interface.GameEngineInterface*
attribute), 493
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.health_alias.HealthAlias*
attribute), 493
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.health_apis.HealthApis*
attribute), 494
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.health_interface.HealthInterface*
attribute), 495
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.health_request.HealthRequest*
attribute), 495
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.house_hold_list.HouseHoldList*
attribute), 496
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.interface.Interface*
attribute), 497
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.lambda_endpoint.LambdaEndpoint*
attribute), 497
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.lambda_region.LambdaRegion*
attribute), 497
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.localized_flash_briefing_info.LocalizedFlashBriefingInfo*
attribute), 498
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.localized_flash_briefing_info.LocalizedFlashBriefingInfo*
attribute), 499
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.localized_health_info.LocalizedHealthInfo*
attribute), 499
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.localized_music_info.LocalizedMusicInfo*
attribute), 500
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.manifest_gadget_support.ManifestGadgetSupport*
attribute), 501
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.music_alias.MusicAlias*
attribute), 501
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.music_apis.MusicApis*
attribute), 502
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.music_capability.MusicCapability*
attribute), 502
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.music_content_type.MusicContentType*
attribute), 503
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.music_feature.MusicFeature*
attribute), 503
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.music_interfaces.MusicInterfaces*
attribute), 504
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.music_request.MusicRequest*
attribute), 504
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.music_wordmark.MusicWordmark*
attribute), 504
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.permission_items.PermissionItems*
attribute), 505
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.region.Region*
attribute), 506
 supports_multiple_types
 (*ask_smapi_model.v1.skill.manifest.request.Request*
attribute), 506

attribute), 507	attribute), 519
supports_multiple_types	supports_multiple_types
(ask_smapi_model.v1.skill.manifest.skill_manifest.SkillManifest	(ask_smapi_model.v1.skill.manifest.viewport_specification.Viewport
attribute), 508	attribute), 521
supports_multiple_types	supports_multiple_types
(ask_smapi_model.v1.skill.manifest.skill_manifest_apis.SkillManifestApis	(ask_smapi_model.v1.skill.metrics.get_metric_data_response.GetMetricDataResponse
attribute), 509	attribute), 521
supports_multiple_types	supports_multiple_types
(ask_smapi_model.v1.skill.manifest.skill_manifest_custom_skill_manifest.CustomSkillManifest	(ask_smapi_model.v1.skill.private.list_private_distribution_accounts.ListPrivateDistributionAccounts
attribute), 509	attribute), 524
supports_multiple_types	supports_multiple_types
(ask_smapi_model.v1.skill.manifest.skill_manifest_endpoint(SkillManifestEndpoint	(ask_smapi_model.v1.skill.private.private_distribution_account.PrivateDistributionAccount
attribute), 510	attribute), 525
supports_multiple_types	supports_multiple_types
(ask_smapi_model.v1.skill.manifest.skill_manifest_envelope(SkillManifestEnvelope	(ask_smapi_model.v1.skill.regional_ssl_certificate.RegionalSSLCertificate
attribute), 510	attribute), 543
supports_multiple_types	supports_multiple_types
(ask_smapi_model.v1.skill.manifest.skill_manifest_events.SkillManifestEvents	(ask_smapi_model.v1.skill.resource_import_status.ResourceImportStatus
attribute), 511	attribute), 544
supports_multiple_types	supports_multiple_types
(ask_smapi_model.v1.skill.manifest.skill_manifest_localized_skill_manifest.LocalizedSkillManifest	(ask_smapi_model.v1.skill.skill_manifest.LocalizedSkillManifest
attribute), 511	attribute), 525
supports_multiple_types	supports_multiple_types
(ask_smapi_model.v1.skill.manifest.skill_manifest_localized_skill_manifest.LocalizedSkillManifest	(ask_smapi_model.v1.skill.skill_manifest.LocalizedSkillManifest
attribute), 512	attribute), 526
supports_multiple_types	supports_multiple_types
(ask_smapi_model.v1.skill.manifest.skill_manifest_privacy_compliance.SkillManifestPrivacyAndCompliance	(ask_smapi_model.v1.skill.skill_manifest_privacy_and_compliance_response_content.PrivacyAndComplianceResponseContent
attribute), 513	attribute), 526
supports_multiple_types	supports_multiple_types
(ask_smapi_model.v1.skill.manifest.skill_manifest_publishing_defines_device.SkillManifestPublishingDefinesDevice	(ask_smapi_model.v1.skill.skill_manifest_publishing_defines_device.SkillManifestPublishingDefinesDevice
attribute), 515	attribute), 526
supports_multiple_types	supports_multiple_types
(ask_smapi_model.v1.skill.manifest.smart_home_apis.SmartHomeApis	(ask_smapi_model.v1.skill.simulations.input.Input
attribute), 515	attribute), 527
supports_multiple_types	supports_multiple_types
(ask_smapi_model.v1.skill.manifest.up_channel_items.UpChannelItems	(ask_smapi_model.v1.skill.simulations.invocation_request.InvocationRequest
attribute), 516	attribute), 527
supports_multiple_types	supports_multiple_types
(ask_smapi_model.v1.skill.manifest.video_apis.VideoApis	(ask_smapi_model.v1.skill.simulations.invocation_response.InvocationResponse
attribute), 517	attribute), 527
supports_multiple_types	supports_multiple_types
(ask_smapi_model.v1.skill.manifest.video_apis_locale.VideoApisLocale	(ask_smapi_model.v1.skill.simulations.metrics.Metrics
attribute), 518	attribute), 528
supports_multiple_types	supports_multiple_types
(ask_smapi_model.v1.skill.manifest.video_app_interface.VideoAppInterface	(ask_smapi_model.v1.skill.simulations.session.Session
attribute), 518	attribute), 528
supports_multiple_types	supports_multiple_types
(ask_smapi_model.v1.skill.manifest.video_catalog_info.VideoCatalogInfo	(ask_smapi_model.v1.skill.simulations.simulation_result.SimulationResult
attribute), 518	attribute), 529
supports_multiple_types	supports_multiple_types
(ask_smapi_model.v1.skill.manifest.video_country_info.VideoCountryInfo	(ask_smapi_model.v1.skill.simulations.simulations_api_request.SimulationsAPIRequest
attribute), 519	attribute), 529
supports_multiple_types	supports_multiple_types
(ask_smapi_model.v1.skill.manifest.video_region.VideoRegion	(ask_smapi_model.v1.skill.simulations.simulations_api_response.SimulationsAPIResponse

ask_smapl_model.v1.skill.beta_test.testers.testers_list), attribute), 396
 420
 TesterWithDetails (class in attribute), 480
 ask_smapl_model.v1.skill.beta_test.testers.tester_with_details), (ask_sdk_model.application.Application
 420 method), 311
 TEXT (ask_smapl_model.v1.skill.manifest.flash_briefing_content_type.FlashBriefingContentType.can_fulfill_intent.CanFulfillIntent
 attribute), 491 method), 66
 TextContent (class in to_dict () (ask_sdk_model.canfulfill.can_fulfill_intent_request.CanFulfillIntentRequest),
 ask_sdk_model.interfaces.display.text_content), method), 66
 202 to_dict () (ask_sdk_model.canfulfill.can_fulfill_intent_values.CanFulfillIntentValues), 66
 TextField (class in method), 67
 ask_sdk_model.interfaces.display.text_field), to_dict () (ask_sdk_model.canfulfill.can_fulfill_slot.CanFulfillSlot),
 202 method), 67
 textToHint (ask_sdk_model.interfaces.alexa.presentation_hint.transformation.transformation.can_fulfill_slot_values.CanFulfillSlotValues),
 attribute), 129 method), 68
 textToSpeech (ask_sdk_model.interfaces.alexa.presentation_hint.transformation.transformation.can_fulfill_slot_values.CanFulfillSlotValues),
 attribute), 129 method), 68
 TF (ask_smapl_model.v1.isp.distribution_countries.DistributionCountries(ask_sdk_model.cause.Cause method), 312
 attribute), 396 to_dict () (ask_sdk_model.connection_completed.ConnectionCompleted), 66
 TF (ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries), 480
 attribute), 480 to_dict () (ask_sdk_model.context.Context method), 66
 TG (ask_smapl_model.v1.isp.distribution_countries.DistributionCountries), 396
 attribute), 396 to_dict () (ask_sdk_model.device.Device method), 66
 TG (ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries), 480
 attribute), 480 to_dict () (ask_sdk_model.dialog.confirm_intent_directive.ConfirmIntentDirective), 66
 TH (ask_sdk_model.services.reminder_management.recurrence_day.RecurringDay), 283
 attribute), 283 to_dict () (ask_sdk_model.dialog.confirm_slot_directive.ConfirmSlotDirective), 66
 TH (ask_smapl_model.v1.isp.distribution_countries.DistributionCountries), 396
 attribute), 396 to_dict () (ask_sdk_model.dialog.delegate_directive.DelegateDirective), 66
 TH (ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries), 480
 attribute), 480 to_dict () (ask_sdk_model.dialog.dynamic_entities_directive.DynamicEntitiesDirective), 66
 TimestampVerifier (class in method), 70
 ask_sdk_webservice_support.verifier), 45 to_dict () (ask_sdk_model.dialog.elicit_slot_directive.ElicitSlotDirective), 66
 TJ (ask_smapl_model.v1.isp.distribution_countries.DistributionCountries), 396
 attribute), 396 to_dict () (ask_sdk_model.dialog_state.DialogState), 66
 TJ (ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries), 480
 attribute), 480 to_dict () (ask_sdk_model.directive.Directive), 66
 TK (ask_smapl_model.v1.isp.distribution_countries.DistributionCountries), 316
 attribute), 396 to_dict () (ask_sdk_model.er.dynamic.entity.Entity), 66
 TK (ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries), 480
 attribute), 480 to_dict () (ask_sdk_model.er.dynamic.entity_list_item.EntityListItem), 66
 TL (ask_smapl_model.v1.isp.distribution_countries.DistributionCountries), 71
 attribute), 396 to_dict () (ask_sdk_model.er.dynamic.entity_value_and_synonyms.EntityValueAndSynonyms), 66
 TL (ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries), 480
 attribute), 480 to_dict () (ask_sdk_model.er.dynamic.update_behavior.UpdateBehavior), 66
 TM (ask_smapl_model.v1.isp.distribution_countries.DistributionCountries), 72
 attribute), 396 to_dict () (ask_sdk_model.events.skillevents.account_linked_body.AccountLinkedBody), 66
 TM (ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries), 480
 attribute), 480 to_dict () (ask_sdk_model.events.skillevents.account_linked_request.AccountLinkedRequest), 66
 TN (ask_smapl_model.v1.isp.distribution_countries.DistributionCountries), 74
 attribute), 396 to_dict () (ask_sdk_model.events.skillevents.permission.Permission), 66
 TN (ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries), 480
 attribute), 480 to_dict () (ask_sdk_model.events.skillevents.permission_accepted_request.PermissionAcceptedRequest), 66
 TO (ask_smapl_model.v1.isp.distribution_countries.DistributionCountries), 75
 attribute), 396

to_dict() (ask_sdk_model.events.skillevents.permission_body.PermissionBody method), 75
to_dict() (ask_sdk_model.events.skillevents.permission_changed_request.PermissionChangedRequest method), 76
to_dict() (ask_sdk_model.events.skillevents.proactive_subscription_changed_body.ProactiveSubscriptionChangedBody method), 76
to_dict() (ask_sdk_model.events.skillevents.proactive_subscription_changed_request.ProactiveSubscriptionChangedRequest method), 77
to_dict() (ask_sdk_model.events.skillevents.proactive_subscription_event.ProactiveSubscriptionEvent method), 77
to_dict() (ask_sdk_model.events.skillevents.skill_disabled_request.SkillDisabledRequest method), 78
to_dict() (ask_sdk_model.events.skillevents.skill_enabled_request.SkillEnabledRequest method), 78
to_dict() (ask_sdk_model.intent.Intent method), 317
to_dict() (ask_sdk_model.intent_confirmation_status.IntentConfirmationStatus method), 317
to_dict() (ask_sdk_model.intent_request.IntentRequest method), 318
to_dict() (ask_sdk_model.interfaces.alexapresentation.apl.alexapresentationinterface.AlexaPresentationInterface method), 79
to_dict() (ask_sdk_model.interfaces.alexapresentation.apl.align(ask_sdk_model.interfaces.alexapresentation.apl.move_trans method), 80
to_dict() (ask_sdk_model.interfaces.alexapresentation.apl.animate(ask_sdk_model.interfaces.alexapresentation.apl.open_url_c method), 81
to_dict() (ask_sdk_model.interfaces.alexapresentation.apl.animate(ask_sdk_model.interfaces.alexapresentation.apl.parallel_co method), 81
to_dict() (ask_sdk_model.interfaces.alexapresentation.apl.animate(ask_sdk_model.interfaces.alexapresentation.apl.play_media method), 81
to_dict() (ask_sdk_model.interfaces.alexapresentation.apl.animate(ask_sdk_model.interfaces.alexapresentation.apl.position.Po method), 82
to_dict() (ask_sdk_model.interfaces.alexapresentation.apl.animate(ask_sdk_model.interfaces.alexapresentation.apl.render_doc method), 83
to_dict() (ask_sdk_model.interfaces.alexapresentation.apl.audio_track(AudioTrack model.interfaces.alexapresentation.apl.rendered_d method), 83
to_dict() (ask_sdk_model.interfaces.alexapresentation.apl.rotate_page(ask_sdk_model.interfaces.alexapresentation.apl.rotate_tran method), 84
to_dict() (ask_sdk_model.interfaces.alexapresentation.apl.clear_focus(ask_sdk_model.interfaces.alexapresentation.apl.runtime.Run method), 84
to_dict() (ask_sdk_model.interfaces.alexapresentation.apl.container(AudioTrack model.interfaces.alexapresentation.apl.scale_trans method), 86
to_dict() (ask_sdk_model.interfaces.alexapresentation.apl.component(AudioTrack model.interfaces.alexapresentation.apl.scroll_com method), 87
to_dict() (ask_sdk_model.interfaces.alexapresentation.apl.component(AudioTrack model.interfaces.alexapresentation.apl.scroll_to_in method), 87
to_dict() (ask_sdk_model.interfaces.alexapresentation.apl.component(AudioTrack model.interfaces.alexapresentation.apl.send_event method), 88
to_dict() (ask_sdk_model.interfaces.alexapresentation.apl.component(AudioTrack model.interfaces.alexapresentation.apl.send_event method), 88
to_dict() (ask_sdk_model.interfaces.alexapresentation.apl.component(AudioTrack model.interfaces.alexapresentation.apl.send_event method), 88
to_dict() (ask_sdk_model.interfaces.alexapresentation.apl.component(AudioTrack model.interfaces.alexapresentation.apl.send_event method), 89
to_dict() (ask_sdk_model.interfaces.alexapresentation.apl.component(AudioTrack model.interfaces.alexapresentation.apl.send_event method), 90
to_dict() (ask_sdk_model.interfaces.alexapresentation.apl.component(AudioTrack model.interfaces.alexapresentation.apl.send_event method), 90

method), 147

to_dict() (ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_data.caption_type.CaptionType), 148

to_dict() (ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_data.status.clear_behavior.ClearBehavior), 149

to_dict() (ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_data.type.clear_queue_directive.ClearQueueDirective), 149

to_dict() (ask_sdk_model.interfaces.amazonpay.model.v1.destination(Destination)), 150

to_dict() (ask_sdk_model.interfaces.amazonpay.model.v1.payment_method.interfaces.audioplayer.error.Error), 151

to_dict() (ask_sdk_model.interfaces.amazonpay.model.v1.pricing(ask_sdk_model.interfaces.audioplayer.error_type.ErrorType)), 151

to_dict() (ask_sdk_model.interfaces.amazonpay.model.v1.provider(ask_sdk_model.interfaces.audioplayer.play_behavior.PlayBehavior)), 152

to_dict() (ask_sdk_model.interfaces.amazonpay.model.v1.provider(ask_sdk_model.interfaces.audioplayer.play_directive.PlayDirective)), 152

to_dict() (ask_sdk_model.interfaces.amazonpay.model.v1.release_event(ask_sdk_model.interfaces.audioplayer.playback_failed_request.PlaybackFailedRequest)), 152

to_dict() (ask_sdk_model.interfaces.amazonpay.model.v1.seller_billing_agreement_data.interfaces.audioplayer.playback_finished_request.PlaybackFinishedRequest), 153

to_dict() (ask_sdk_model.interfaces.amazonpay.model.v1.seller_to_developer_billing_agreement_data.interfaces.audioplayer.playback_nearly_finished_request.PlaybackNearlyFinishedRequest), 154

to_dict() (ask_sdk_model.interfaces.amazonpay.model.v1.state.State), 154

to_dict() (ask_sdk_model.interfaces.amazonpay.request_charge_info(ask_sdk_model.interfaces.audioplayer.playback_stopped_request.PlaybackStoppedRequest)), 155

to_dict() (ask_sdk_model.interfaces.amazonpay.request_setup_and_to_setup_request_setup_interfaces.audioplayer.player_activity.PlayerActivity), 156

to_dict() (ask_sdk_model.interfaces.amazonpay.response_amazon_pay_sdk_response_interfaces.audioplayer.response_directive.StopDirective), 157

to_dict() (ask_sdk_model.interfaces.amazonpay.response_charge_and_sdk_result_interfaces.audioplayer.result.Stream), 158

to_dict() (ask_sdk_model.interfaces.amazonpay.response_setup_and_to_setup_result_setup_interfaces.audioplayer.result.automotive_state.AutomotiveState), 158

to_dict() (ask_sdk_model.interfaces.amazonpay.v1.amazon_client_request_interfaces.connections_request.ConnectionRequest), 159

to_dict() (ask_sdk_model.interfaces.amazonpay.v1.charge_amazon(ask_sdk_model.interfaces.connections.connections_response.ConnectionResponse)), 160

to_dict() (ask_sdk_model.interfaces.amazonpay.v1.charge_amazon(ask_sdk_model.interfaces.connections.status.ConnectionStatus)), 160

to_dict() (ask_sdk_model.interfaces.amazonpay.v1.setup_amazon(ask_sdk_model.interfaces.connections.entities.base_entity.BaseEntity)), 161

to_dict() (ask_sdk_model.interfaces.amazonpay.v1.setup_amazon(ask_sdk_model.interfaces.connections.entities.postal_address.PostalAddress)), 162

to_dict() (ask_sdk_model.interfaces.audioplayer.audio_item(AudioItem)), 162

to_dict() (ask_sdk_model.interfaces.audioplayer.audio_item_metadata(ask_sdk_model.interfaces.connections.requests.base_request.BaseRequest)), 163

to_dict() (ask_sdk_model.interfaces.audioplayer.audio_player_interface(AudioPlayerInterface)), 163

to_dict() (ask_sdk_model.interfaces.audioplayer.audio_player_state(AudioPlayerState)), 164

to_dict() (ask_sdk_model.interfaces.audioplayer.caption_data(CaptionData)), 164

to_dict() (ask_sdk_model.interfaces.audioplayer.current_playback_status(CurrentPlaybackStatus)), 164

to_dict() (ask_sdk_model.interfaces.audioplayer.error.Error), 165

to_dict() (ask_sdk_model.interfaces.audioplayer.error_type.ErrorType), 165

to_dict() (ask_sdk_model.interfaces.audioplayer.play_behavior.PlayBehavior), 166

to_dict() (ask_sdk_model.interfaces.audioplayer.play_directive.PlayDirective), 166

to_dict() (ask_sdk_model.interfaces.audioplayer.playback_failed_request.PlaybackFailedRequest), 168

to_dict() (ask_sdk_model.interfaces.audioplayer.playback_finished_request.PlaybackFinishedRequest), 169

to_dict() (ask_sdk_model.interfaces.audioplayer.playback_nearly_finished_request.PlaybackNearlyFinishedRequest), 169

to_dict() (ask_sdk_model.interfaces.audioplayer.playback_started_request.PlaybackStartedRequest), 170

to_dict() (ask_sdk_model.interfaces.audioplayer.playback_stopped_request.PlaybackStoppedRequest), 171

to_dict() (ask_sdk_model.interfaces.audioplayer.player_activity.PlayerActivity), 171

to_dict() (ask_sdk_model.interfaces.audioplayer.response_directive.StopDirective), 171

to_dict() (ask_sdk_model.interfaces.audioplayer.result.Stream), 172

to_dict() (ask_sdk_model.interfaces.audioplayer.result.automotive_state.AutomotiveState), 173

to_dict() (ask_sdk_model.interfaces.connections.connections_request.ConnectionRequest), 181

to_dict() (ask_sdk_model.interfaces.connections.connections_response.ConnectionResponse), 182

to_dict() (ask_sdk_model.interfaces.connections.status.ConnectionStatus), 183

to_dict() (ask_sdk_model.interfaces.connections.entities.base_entity.BaseEntity), 174

to_dict() (ask_sdk_model.interfaces.connections.entities.postal_address.PostalAddress), 174

to_dict() (ask_sdk_model.interfaces.connections.entities.restaurant.Restaurant), 175

to_dict() (ask_sdk_model.interfaces.connections.requests.base_request.BaseRequest), 176

to_dict() (ask_sdk_model.interfaces.connections.requests.print_image.PrintImageRequest), 177

to_dict() (ask_sdk_model.interfaces.connections.requests.print_pdf.PrintPdfRequest), 177

to_dict() (ask_sdk_model.interfaces.connections.requests.print_web_page.PrintWebPageRequest), 177

- `method`), 178
- `to_dict()` (`ask_sdk_model.interfaces.connections.requests.schedule_for_execution`), 178
- `method`), 179
- `to_dict()` (`ask_sdk_model.interfaces.connections.requests.schedule_for_execution`), 179
- `method`), 179
- `to_dict()` (`ask_sdk_model.interfaces.connections.send_request_directly_to_skill_endpoint`), 183
- `method`), 183
- `to_dict()` (`ask_sdk_model.interfaces.connections.send_response_directly_to_skill_endpoint`), 184
- `method`), 184
- `to_dict()` (`ask_sdk_model.interfaces.connections.v1.start_connection`), 180
- `method`), 180
- `to_dict()` (`ask_sdk_model.interfaces.custom_interface_controller.render_to_html`), 184
- `method`), 184
- `to_dict()` (`ask_sdk_model.interfaces.custom_interface_controller.render_to_text`), 185
- `method`), 185
- `to_dict()` (`ask_sdk_model.interfaces.custom_interface_controller.render_to_text`), 186
- `method`), 186
- `to_dict()` (`ask_sdk_model.interfaces.custom_interface_controller.render_to_text`), 186
- `method`), 186
- `to_dict()` (`ask_sdk_model.interfaces.custom_interface_controller.render_to_text`), 187
- `method`), 187
- `to_dict()` (`ask_sdk_model.interfaces.custom_interface_controller.render_to_text`), 188
- `method`), 188
- `to_dict()` (`ask_sdk_model.interfaces.custom_interface_controller.render_to_text`), 188
- `method`), 188
- `to_dict()` (`ask_sdk_model.interfaces.custom_interface_controller.render_to_text`), 189
- `method`), 189
- `to_dict()` (`ask_sdk_model.interfaces.custom_interface_controller.start_event_listener`), 190
- `method`), 190
- `to_dict()` (`ask_sdk_model.interfaces.custom_interface_controller.stop_event_listener`), 190
- `method`), 190
- `to_dict()` (`ask_sdk_model.interfaces.display.back_button_behavior`), 191
- `method`), 191
- `to_dict()` (`ask_sdk_model.interfaces.display.body_template1`), 191
- `method`), 191
- `to_dict()` (`ask_sdk_model.interfaces.display.body_template2`), 192
- `method`), 192
- `to_dict()` (`ask_sdk_model.interfaces.display.body_template3`), 193
- `method`), 193
- `to_dict()` (`ask_sdk_model.interfaces.display.body_template6`), 193
- `method`), 193
- `to_dict()` (`ask_sdk_model.interfaces.display.body_template7`), 194
- `method`), 194
- `to_dict()` (`ask_sdk_model.interfaces.display.display_interface_display`), 194
- `method`), 194
- `to_dict()` (`ask_sdk_model.interfaces.display.display_state_display`), 195
- `method`), 195
- `to_dict()` (`ask_sdk_model.interfaces.display.element_selected_request`), 195
- `method`), 195
- `to_dict()` (`ask_sdk_model.interfaces.display.hint`), 196
- `method`), 196
- `to_dict()` (`ask_sdk_model.interfaces.display.hint_directive_hint`), 196
- `method`), 196
- `method`), 196
- `method`), 197
- `method`), 197
- `method`), 198
- `method`), 198
- `method`), 198
- `method`), 199
- `method`), 199
- `method`), 200
- `method`), 200
- `method`), 200
- `method`), 200
- `method`), 201
- `method`), 202
- `method`), 202
- `method`), 203
- `method`), 204
- `method`), 205
- `method`), 205
- `method`), 206
- `method`), 206
- `method`), 207
- `method`), 207
- `method`), 208
- `method`), 208
- `method`), 209
- `method`), 209
- `method`), 210
- `method`), 210
- `method`), 210

method), 211

to_dict() (ask_sdk_model.interfaces.monetization.v1.in_skill_purchase.InSkillPurchase method), 212

to_dict() (ask_sdk_model.interfaces.monetization.v1.purchase_result.PurchaseResult method), 212

to_dict() (ask_sdk_model.interfaces.navigation.assistance_announcement.AskSdkAnnouncement method), 213

to_dict() (ask_sdk_model.interfaces.navigation.navigation_interface.NavigationInterface method), 213

to_dict() (ask_sdk_model.interfaces.playbackcontroller.next_document_and_skills_model.NextDocumentAndSkillsModel method), 214

to_dict() (ask_sdk_model.interfaces.playbackcontroller.pause_document_and_skills_model.PauseDocumentAndSkillsModel method), 215

to_dict() (ask_sdk_model.interfaces.playbackcontroller.play_document_and_skills_model.PlayDocumentAndSkillsModel method), 215

to_dict() (ask_sdk_model.interfaces.playbackcontroller.previous_document_and_skills_model.PreviousDocumentAndSkillsModel method), 216

to_dict() (ask_sdk_model.interfaces.system.error.Error method), 216

to_dict() (ask_sdk_model.interfaces.system.error_cause.ErrorCause method), 217

to_dict() (ask_sdk_model.interfaces.system.error_type.ErrorType method), 217

to_dict() (ask_sdk_model.interfaces.system.exception_encountered_request_exception_encountered_request_exception_encountered_request_exception_encountered method), 218

to_dict() (ask_sdk_model.interfaces.system.system_state.SystemState method), 218

to_dict() (ask_sdk_model.interfaces.tasks.complete_task_directive.CompleteTaskDirective method), 219

to_dict() (ask_sdk_model.interfaces.videoapp.launch_directive.LaunchDirective method), 220

to_dict() (ask_sdk_model.interfaces.videoapp.metadata.Metadata method), 220

to_dict() (ask_sdk_model.interfaces.videoapp.video_app_interface.VideoAppInterface method), 220

to_dict() (ask_sdk_model.interfaces.videoapp.video_item.VideoItem method), 221

to_dict() (ask_sdk_model.interfaces.viewport.apl.current_configuration.CurrentConfiguration method), 222

to_dict() (ask_sdk_model.interfaces.viewport.apl.viewport_configuration.TaskViewportConfiguration method), 222

to_dict() (ask_sdk_model.interfaces.viewport.apl_viewport_state.APIViewportState method), 227

to_dict() (ask_sdk_model.interfaces.viewport.apl.character_format.CharacterFormat method), 223

to_dict() (ask_sdk_model.interfaces.viewport.apl.inter_segment_intent.Intent method), 223

to_dict() (ask_sdk_model.interfaces.viewport.apl.viewport_profile.Profile method), 223

to_dict() (ask_sdk_model.interfaces.viewport.apl_viewport_state.APIMViewportState method), 228

to_dict() (ask_sdk_model.interfaces.viewport.experience.Experience method), 228

to_dict() (ask_sdk_model.interfaces.viewport.keyboard.Keyboard method), 229

to_dict() (ask_sdk_model.interfaces.viewport.mode.Mode method), 229

to_dict() (ask_sdk_model.interfaces.viewport.presentation_type.PresentationType method), 229

to_dict() (ask_sdk_model.interfaces.viewport.regulation_shape.RegulationShape method), 230

to_dict() (ask_sdk_model.interfaces.viewport.size.continuous_viewport_size.ContinuousViewportSize method), 224

to_dict() (ask_sdk_model.interfaces.viewport.size.requested_viewport_size.RequestedViewportSize method), 225

to_dict() (ask_sdk_model.interfaces.viewport.size.viewport_size.ViewportSize method), 225

to_dict() (ask_sdk_model.interfaces.viewport.size.viewport_size_request.ViewportSizeRequest method), 230

to_dict() (ask_sdk_model.interfaces.viewport.video.codecs.Codecs method), 226

to_dict() (ask_sdk_model.interfaces.viewport.viewport_state.ViewportState method), 232

to_dict() (ask_sdk_model.interfaces.viewport.viewport_state_video.Video method), 232

to_dict() (ask_sdk_model.interfaces.viewport.viewport_video.ViewportVideo method), 232

to_dict() (ask_sdk_model.launch_request.LaunchRequest method), 319

to_dict() (ask_sdk_model.permissions.Permissions method), 320

to_dict() (ask_sdk_model.person.Person method), 320

to_dict() (ask_sdk_model.request_envelope.RequestEnvelope method), 324

to_dict() (ask_sdk_model.response.Response method), 325

to_dict() (ask_sdk_model.response_envelope.ResponseEnvelope method), 325

to_dict() (ask_sdk_model.scope.Scope method), 326

to_dict() (ask_sdk_model.services.device_address.address.Address method), 227

to_dict() (ask_sdk_model.services.device_address.error.Error method), 227

to_dict() (ask_sdk_model.services.device_address.short_address.ShortAddress method), 227

to_dict() (ask_sdk_model.services.directive.directive.Directive method), 237

to_dict() (ask_sdk_model.services.directive.error.Error method), 237

to_dict() (ask_sdk_model.services.directive.header.Header method), 237

- `to_dict()` (`ask_sdk_model.services.directive.send_directive_request.SendDirectiveRequest`, `ask_sdk_model.services.list_management.error.Error` method), 237
- `to_dict()` (`ask_sdk_model.services.directive.speak_directive.SpeakDirective`, `ask_sdk_model.services.list_management.forbidden_error.ForbiddenError` method), 238
- `to_dict()` (`ask_sdk_model.services.endpoint_enumeration.endpoint.Endpoint`, `ask_sdk_model.services.links.links.ListCapabilityManagementLinks` method), 238
- `to_dict()` (`ask_sdk_model.services.endpoint_enumeration.endpoint.Endpoint`, `ask_sdk_model.services.endpoint_enumeration.endpoint.EndpointListBody` method), 239
- `to_dict()` (`ask_sdk_model.services.endpoint_enumeration.endpoint.Endpoint`, `ask_sdk_model.services.list_management.list_created_event.ListCreatedEvent` method), 240
- `to_dict()` (`ask_sdk_model.services.endpoint_enumeration.endpoint.Endpoint`, `ask_sdk_model.services.list_management.list_deleted_event.ListDeletedEvent` method), 240
- `to_dict()` (`ask_sdk_model.services.gadget_controller.animation_step.AnimationStep`, `ask_sdk_model.services.list_management.list_item_body.ListItemBody` method), 241
- `to_dict()` (`ask_sdk_model.services.gadget_controller.light_animation.LightAnimation`, `ask_sdk_model.services.list_management.list_item_state.ListItemState` method), 242
- `to_dict()` (`ask_sdk_model.services.gadget_controller.set_light_parts.SetLightParts`, `ask_sdk_model.services.list_management.list_items_created_event.ListItemsCreatedEvent` method), 242
- `to_dict()` (`ask_sdk_model.services.gadget_controller.trigger_event.TriggerEvent`, `ask_sdk_model.services.list_management.list_items_deleted_event.ListItemsDeletedEvent` method), 243
- `to_dict()` (`ask_sdk_model.services.game_engine.deviation_recognizer.DeviationRecognizer`, `ask_sdk_model.services.list_management.list_items_updated_event.ListItemsUpdatedEvent` method), 243
- `to_dict()` (`ask_sdk_model.services.game_engine.event.Event`, `ask_sdk_model.services.list_management.list_state.ListState` method), 244
- `to_dict()` (`ask_sdk_model.services.game_engine.event_reporting_type.EventReportingType`, `ask_sdk_model.services.list_management.list_updated_event.ListUpdatedEvent` method), 244
- `to_dict()` (`ask_sdk_model.services.game_engine.input_event.InputEvent`, `ask_sdk_model.services.list_management.status.Status` method), 245
- `to_dict()` (`ask_sdk_model.services.game_engine.input_event.InputEvent`, `ask_sdk_model.services.list_management.update_list_item_request.UpdateListItemRequest` method), 245
- `to_dict()` (`ask_sdk_model.services.game_engine.input_handler_event.InputHandlerEvent`, `ask_sdk_model.services.list_management.update_list_request.UpdateListRequest` method), 246
- `to_dict()` (`ask_sdk_model.services.game_engine.pattern.Pattern`, `ask_sdk_model.services.lwa.access_token_request.AccessTokenRequest` method), 246
- `to_dict()` (`ask_sdk_model.services.game_engine.pattern_recognizer.PatternRecognizer`, `ask_sdk_model.services.lwa.access_token_response.AccessTokenResponse` method), 247
- `to_dict()` (`ask_sdk_model.services.game_engine.pattern_recognizer.PatternRecognizer` and `ask_sdk_model.services.lwa.access_token_response.AccessTokenResponse` method), 248
- `to_dict()` (`ask_sdk_model.services.game_engine.progress_recognizer.ProgressRecognizer`, `ask_sdk_model.services.monetization.entitled_state.EntitledState` method), 248
- `to_dict()` (`ask_sdk_model.services.game_engine.recognizer.Recognizer`, `ask_sdk_model.services.monetization.entitlement_reason.EntitlementReason` method), 249
- `to_dict()` (`ask_sdk_model.services.list_management.alexo_list_item.AlexoListItem`, `ask_sdk_model.services.monetization.error.Error` method), 250
- `to_dict()` (`ask_sdk_model.services.list_management.alexo_list_item.AlexoListItem`, `ask_sdk_model.services.monetization.in_skill_product.InSkillProduct` method), 250
- `to_dict()` (`ask_sdk_model.services.list_management.alexo_list_item.AlexoListItem`, `ask_sdk_model.services.monetization.in_skill_product_transaction.InSkillProductTransaction` method), 251
- `to_dict()` (`ask_sdk_model.services.list_management.alexo_list_item.AlexoListItem`, `ask_sdk_model.services.monetization.in_skill_products_response.InSkillProductsResponse` method), 251
- `to_dict()` (`ask_sdk_model.services.list_management.create_list_item.CreateListItem`, `ask_sdk_model.services.monetization.metadata.Metadata` method), 252
- `to_dict()` (`ask_sdk_model.services.list_management.create_list_item.CreateListItem`, `ask_sdk_model.services.monetization.product_type.ProductType` method), 252

to_dict () (ask_sdk_model.services.monetization.purchasable_state.PurchasableState method), 272

to_dict () (ask_sdk_model.services.monetization.purchasable_state.PurchasableState method), 272

to_dict () (ask_sdk_model.services.monetization.result_to_result_set (ask_sdk_model.services.reminder_management.reminder_status.Status method), 273

to_dict () (ask_sdk_model.services.monetization.status.Status method), 273

to_dict () (ask_sdk_model.services.monetization.transactions.Transaction method), 274

to_dict () (ask_sdk_model.services.proactive_events.create_proactive_event.CreateProactiveEventRequest method), 275

to_dict () (ask_sdk_model.services.proactive_events.error_code.Error method), 275

to_dict () (ask_sdk_model.services.proactive_events.event.Event method), 276

to_dict () (ask_sdk_model.services.proactive_events.relevant_audience.RelevantAudience method), 277

to_dict () (ask_sdk_model.services.proactive_events.relevant_audience_type.RelevantAudienceType method), 277

to_dict () (ask_sdk_model.services.proactive_events.skill_stage.SkillStage method), 277

to_dict () (ask_sdk_model.services.reminder_management.alert_info.AlertInfo method), 278

to_dict () (ask_sdk_model.services.reminder_management.alert_info.AlertInfo method), 278

to_dict () (ask_sdk_model.services.reminder_management.error_code.Error method), 279

to_dict () (ask_sdk_model.services.reminder_management.event.Event method), 279

to_dict () (ask_sdk_model.services.reminder_management.get_reminder_id_from_session_id (ask_sdk_model.services.ups.phone_number.PhoneNumber method), 280

to_dict () (ask_sdk_model.services.reminder_management.get_reminder_id_from_session_id (ask_sdk_model.services.ups.phone_number.PhoneNumber method), 281

to_dict () (ask_sdk_model.services.reminder_management.push_notification.PushNotification method), 281

to_dict () (ask_sdk_model.services.reminder_management.push_notification.PushNotification method), 281

to_dict () (ask_sdk_model.services.reminder_management.recurrence.Recurrence method), 282

to_dict () (ask_sdk_model.services.reminder_management.recurrence.Recurrence method), 283

to_dict () (ask_sdk_model.services.reminder_management.recurrence.Recurrence method), 283

to_dict () (ask_sdk_model.services.reminder_management.reminder.Reminder method), 284

to_dict () (ask_sdk_model.services.reminder_management.reminder_created_event_request.ReminderCreatedEventRequest method), 284

to_dict () (ask_sdk_model.services.reminder_management.reminder_deleted_event.ReminderDeletedEvent method), 285

to_dict () (ask_sdk_model.services.reminder_management.reminder_deleted_event_request.ReminderDeletedEventRequest method), 285

to_dict () (ask_sdk_model.services.reminder_management.reminder_request.ReminderRequest method), 287

to_dict () (ask_sdk_model.services.reminder_management.reminder_request.ReminderRequest method), 288

to_dict () (ask_sdk_model.services.reminder_management.reminder_status.Status method), 289

to_dict () (ask_sdk_model.services.reminder_management.reminder_status.Status method), 289

to_dict () (ask_sdk_model.services.reminder_management.spoken_text.SpokenText method), 290

to_dict () (ask_sdk_model.services.reminder_management.trigger.Trigger method), 291

to_dict () (ask_sdk_model.services.reminder_management.trigger.Trigger method), 291

to_dict () (ask_sdk_model.services.reminder_management.trigger_type.TriggerType method), 292

to_dict () (ask_sdk_model.services.skill_messaging.error_code.Error method), 292

to_dict () (ask_sdk_model.services.skill_messaging.send_skill_message.SendSkillMessage method), 293

to_dict () (ask_sdk_model.services.ups.distance_units.DistanceUnits method), 294

to_dict () (ask_sdk_model.services.ups.error_code.Error method), 295

to_dict () (ask_sdk_model.services.ups.error_code.Error method), 295

to_dict () (ask_sdk_model.services.ups.phone_number.PhoneNumber method), 296

to_dict () (ask_sdk_model.services.ups.temperature_unit.TemperatureUnit method), 296

to_dict () (ask_sdk_model.services.ups.session_id.SessionId method), 326

to_dict () (ask_sdk_model.services.ups.session_id.SessionId method), 327

to_dict () (ask_sdk_model.services.ups.session_id.SessionId method), 327

to_dict () (ask_sdk_model.services.ups.session_id.SessionId method), 328

to_dict () (ask_sdk_model.services.ups.session_id.SessionId method), 328

to_dict () (ask_sdk_model.services.ups.session_id.SessionId method), 329

to_dict () (ask_sdk_model.slot_confirmation_status.SlotConfirmationStatus method), 330

to_dict () (ask_sdk_model.slu.entityresolution.resolution.Resolution method), 330

to_dict () (ask_sdk_model.slu.entityresolution.resolutions.Resolutions method), 330

to_dict () (ask_sdk_model.slu.entityresolution.status.Status method), 330

to_dict () (ask_sdk_model.slu.entityresolution.status_code.StatusCode method), 330

to_dict () (ask_sdk_model.slu.entityresolution.value.Value method), 330

method), 305

to_dict() (ask_sdk_model.slu.entityresolution.value_wrapper.ValueWrapper method), 306

to_dict() (ask_sdk_model.status.Status method), 330

to_dict() (ask_sdk_model.supported_interfaces.SupportedInterfaces method), 331

to_dict() (ask_sdk_model.task.Task method), 332

to_dict() (ask_sdk_model.ui.ask_for_permissions_consent_card.AskForPermissionsConsentCard method), 306

to_dict() (ask_sdk_model.ui.card.Card method), 307

to_dict() (ask_sdk_model.ui.image.Image method), 307

to_dict() (ask_sdk_model.ui.link_account_card.LinkAccountCard method), 307

to_dict() (ask_sdk_model.ui.output_speech.OutputSpeech method), 308

to_dict() (ask_sdk_model.ui.plain_text_output_speech.PlainTextOutputSpeech method), 309

to_dict() (ask_sdk_model.ui.play_behavior.PlayBehavior method), 309

to_dict() (ask_sdk_model.ui.reprompt.Reprompt method), 309

to_dict() (ask_sdk_model.ui.simple_card.SimpleCard method), 310

to_dict() (ask_sdk_model.ui.ssml_output_speech.SsmlOutputSpeech method), 310

to_dict() (ask_sdk_model.ui.standard_card.StandardCard method), 310

to_dict() (ask_sdk_model.user.User method), 332

to_dict() (ask_sdk_model_runtime.lwa.access_token_request.AccessTokenRequest method), 56

to_dict() (ask_sdk_model_runtime.lwa.access_token_response.AccessTokenResponse method), 56

to_dict() (ask_sdk_model_runtime.lwa.error.Error method), 57

to_dict() (ask_smapi_model.v1.bad_request_error.BadRequestError method), 556

to_dict() (ask_smapi_model.v1.catalog.create_content_upload_url_request.CreateContentUploadUrlRequest method), 387

to_dict() (ask_smapi_model.v1.catalog.create_content_upload_url_response.CreateContentUploadUrlResponse method), 387

to_dict() (ask_smapi_model.v1.catalog.presigned_upload_part_items.PresignedUploadPartItems method), 388

to_dict() (ask_smapi_model.v1.catalog.upload.catalog_upload_base.CatalogUploadBase method), 382

to_dict() (ask_smapi_model.v1.catalog.upload.content_upload_file_status.ContentUploadFileStatus method), 382

to_dict() (ask_smapi_model.v1.catalog.upload.file_upload_status.FileUploadStatus method), 383

to_dict() (ask_smapi_model.v1.catalog.upload.get_content_upload_response.GetContentUploadResponse method), 383

to_dict() (ask_smapi_model.v1.catalog.upload.ingestion_status.IngestionStatus method), 384

to_dict() (ask_smapi_model.v1.catalog.upload.ingestion_step_name.IngestionStepName method), 384

to_dict() (ask_smapi_model.v1.catalog.upload.location.Location method), 384

to_dict() (ask_smapi_model.v1.catalog.upload.pre_signed_url.PreSignedUrl method), 385

to_dict() (ask_smapi_model.v1.catalog.upload.pre_signed_url_item.PreSignedUrlItem method), 385

to_dict() (ask_smapi_model.v1.catalog.upload.upload_ingestion_step.UploadIngestionStep method), 386

to_dict() (ask_smapi_model.v1.catalog.upload.upload_status.UploadStatus method), 386

to_dict() (ask_smapi_model.v1.error.Error method), 556

to_dict() (ask_smapi_model.v1.isp.associated_skill_response.AssociatedSkillResponse method), 389

to_dict() (ask_smapi_model.v1.isp.create_in_skill_product_request.CreateInSkillProductRequest method), 389

to_dict() (ask_smapi_model.v1.isp.currency.Currency method), 389

to_dict() (ask_smapi_model.v1.isp.custom_product_prompts.CustomProductPrompts method), 390

to_dict() (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries method), 397

to_dict() (ask_smapi_model.v1.isp.editable_state.EditableState method), 397

to_dict() (ask_smapi_model.v1.isp.in_skill_product_definition.InSkillProductDefinition method), 398

to_dict() (ask_smapi_model.v1.isp.in_skill_product_definition_response.InSkillProductDefinitionResponse method), 399

to_dict() (ask_smapi_model.v1.isp.in_skill_product_summary.InSkillProductSummary method), 400

to_dict() (ask_smapi_model.v1.isp.in_skill_product_summary_response.InSkillProductSummaryResponse method), 400

to_dict() (ask_smapi_model.v1.isp.isp_summary_links.IspSummaryLinks method), 401

to_dict() (ask_smapi_model.v1.isp.list_in_skill_product.ListInSkillProduct method), 401

to_dict() (ask_smapi_model.v1.isp.list_in_skill_product_response.ListInSkillProductResponse method), 401

to_dict() (ask_smapi_model.v1.isp.local_publishing_information.LocalPublishingInformation method), 403

to_dict() (ask_smapi_model.v1.isp.marketplace_pricing.MarketplacePricing method), 403

to_dict() (ask_smapi_model.v1.isp.model_listing.ModelListing method), 404

to_dict() (ask_smapi_model.v1.isp.privacy_and_compliance.PrivacyAndCompliance method), 404

to_dict() (ask_smapi_model.v1.isp.product_type.ProductType method), 405

to_dict() (ask_smapi_model.v1.isp.publishing_information.PublishingInformation method), 405

method), 406

to_dict() (ask_smapl_model.v1.isp.purchasable_state.PurchasableState), 417

method), 406

method), 418

to_dict() (ask_smapl_model.v1.isp.stage.Stage), 406

to_dict() (ask_smapl_model.v1.skill.alex_hosted.hosted_skill_repository), 418

method), 418

to_dict() (ask_smapl_model.v1.isp.status.Status), 407

to_dict() (ask_smapl_model.v1.skill.beta_test.beta_test.BetaTest), 421

method), 407

to_dict() (ask_smapl_model.v1.isp.subscription_information.SubscriptionInformation), 407

to_dict() (ask_smapl_model.v1.skill.beta_test.status.Status), 422

method), 407

to_dict() (ask_smapl_model.v1.isp.subscription_payment_frequency.SubscriptionPaymentFrequency), 408

to_dict() (ask_smapl_model.v1.skill.beta_test.test_body.TestBody), 422

method), 408

to_dict() (ask_smapl_model.v1.isp.summary_marketplace_pricing.SummaryMarketplacePricing), 408

to_dict() (ask_smapl_model.v1.skill.beta_test.testers.invitation_status.InvitationStatus), 419

method), 408

to_dict() (ask_smapl_model.v1.isp.summary_price_listing.SummaryPriceListing), 409

to_dict() (ask_smapl_model.v1.skill.beta_test.testers.list_testers_response.ListTestersResponse), 419

method), 409

to_dict() (ask_smapl_model.v1.isp.tax_information.TaxInformation), 409

to_dict() (ask_smapl_model.v1.skill.beta_test.testers.tester.Tester), 419

method), 409

to_dict() (ask_smapl_model.v1.isp.tax_information_category.TaxInformationCategory), 409

to_dict() (ask_smapl_model.v1.skill.beta_test.testers.tester_with_details.TesterWithDetails), 420

method), 409

to_dict() (ask_smapl_model.v1.isp.update_in_skill_product_create.UpdateInSkillProductCreate), 410

to_dict() (ask_smapl_model.v1.skill.beta_test.testers.testers_list.TestersList), 420

method), 410

to_dict() (ask_smapl_model.v1.link.Link), 557

to_dict() (ask_smapl_model.v1.skill.build_details.BuildDetails), 535

method), 557

to_dict() (ask_smapl_model.v1.links.Links), 557

to_dict() (ask_smapl_model.v1.skill.build_step.BuildStep), 536

method), 557

to_dict() (ask_smapl_model.v1.skill.account_linking.access_token.AccessToken), 410

to_dict() (ask_smapl_model.v1.skill.build_step.BuildStepName), 536

method), 410

to_dict() (ask_smapl_model.v1.skill.account_linking.account_linking_request.AccountLinkingRequest), 412

to_dict() (ask_smapl_model.v1.skill.certification.certification_response.CertificationResponse), 423

method), 412

to_dict() (ask_smapl_model.v1.skill.account_linking.account_linking_response.AccountLinkingResponse), 413

to_dict() (ask_smapl_model.v1.skill.certification.certification_result.CertificationResult), 423

method), 413

to_dict() (ask_smapl_model.v1.skill.account_linking.account_linking_status.AccountLinkingStatus), 413

to_dict() (ask_smapl_model.v1.skill.certification.certification_status.CertificationStatus), 424

method), 413

to_dict() (ask_smapl_model.v1.skill.action.Action), 534

to_dict() (ask_smapl_model.v1.skill.certification.certification_summary.CertificationSummary), 424

method), 534

to_dict() (ask_smapl_model.v1.skill.agreement_type.AgreementType), 535

to_dict() (ask_smapl_model.v1.skill.certification.distribution_info.DistributionInfo), 425

method), 535

to_dict() (ask_smapl_model.v1.skill.alex_hosted.hosted_skill_info.HostedSkillInfo), 414

to_dict() (ask_smapl_model.v1.skill.certification.estimation_update.EstimationUpdate), 425

method), 414

to_dict() (ask_smapl_model.v1.skill.alex_hosted.hosted_skill_metadata.HostedSkillMetadata), 415

to_dict() (ask_smapl_model.v1.skill.certification.list_certifications_response.ListCertificationsResponse), 426

method), 415

to_dict() (ask_smapl_model.v1.skill.alex_hosted.hosted_skill_operation.HostedSkillOperation), 415

to_dict() (ask_smapl_model.v1.skill.certification.publication_failure.PublicationFailure), 427

method), 415

to_dict() (ask_smapl_model.v1.skill.alex_hosted.hosted_skill_operation.HostedSkillOperation), 415

to_dict() (ask_smapl_model.v1.skill.certification.publication_status.PublicationStatus), 427

method), 415

to_dict() (ask_smapl_model.v1.skill.alex_hosted.hosted_skill_operation.HostedSkillOperation), 416

to_dict() (ask_smapl_model.v1.skill.certification.review_tracking_info.ReviewTrackingInfo), 428

method), 416

to_dict() (ask_smapl_model.v1.skill.alex_hosted.hosted_skill_repository.HostedSkillRepository), 416

to_dict() (ask_smapl_model.v1.skill.create_skill_request.CreateSkillRequest), 536

method), 416

to_dict() (ask_smapl_model.v1.skill.alex_hosted.hosted_skill_repository.HostedSkillRepository), 416

to_dict() (ask_smapl_model.v1.skill.create_skill_request.CreateSkillRequest), 537

method), 416

to_dict() (ask_smapl_model.v1.skill.alex_hosted.hosted_skill_repository.HostedSkillRepository), 417

to_dict() (ask_smapl_model.v1.skill.create_skill_request.CreateSkillRequest), 537

method), 417

to_dict() (ask_smapl_model.v1.skill.alex_hosted.hosted_skill_repository.HostedSkillRepository), 417

to_dict() (ask_smapl_model.v1.skill.create_skill_request.CreateSkillRequest), 537

method), 417

method), 521

to_dict() (ask_smapl_model.v1.skill.metrics.get_metric_data_response.GetMetricDataResponse.skill_interaction_model_status.SkillInteractionModelStatus.method), 521

to_dict() (ask_smapl_model.v1.skill.metrics.metric.Metric.to_dict() (ask_smapl_model.v1.skill.skill_status.SkillStatus.method), 522

to_dict() (ask_smapl_model.v1.skill.metrics.period.Period.to_dict() (ask_smapl_model.v1.skill.skill_summary.SkillSummary.method), 522

to_dict() (ask_smapl_model.v1.skill.metrics.skill_type.SkillType.to_dict() (ask_smapl_model.v1.skill.skill_summary_apis.SkillSummaryApis.method), 523

to_dict() (ask_smapl_model.v1.skill.metrics.stage_for_metric.StageForMetric.to_dict() (ask_smapl_model.v1.skill.ssl_certificate_payload.SSLCertificatePayload.method), 523

to_dict() (ask_smapl_model.v1.skill.private.accept_status.AcceptStatus.to_dict() (ask_smapl_model.v1.skill.standardized_error.StandardizedError.method), 524

to_dict() (ask_smapl_model.v1.skill.private.list_private_distribution_accounts_response.ListPrivateDistributionAccountsResponse.method), 524

to_dict() (ask_smapl_model.v1.skill.private.private_distribution_account.PrivateDistributionAccount.to_dict() (ask_smapl_model.v1.skill.submit_skill_for_certification_request.SubmitSkillForCertificationRequest.method), 525

to_dict() (ask_smapl_model.v1.skill.publication_method.PublicationMethod.to_dict() (ask_smapl_model.v1.skill.update_skill_with_package_request.UpdateSkillWithPackageRequest.method), 542

to_dict() (ask_smapl_model.v1.skill.reason.Reason.to_dict() (ask_smapl_model.v1.skill.upload_response.UploadResponse.method), 543

to_dict() (ask_smapl_model.v1.skill.regional_ssl_certificate.RegionalSSLCertificate.to_dict() (ask_smapl_model.v1.skill.validation_data_types.ValidationDataTypes.method), 543

to_dict() (ask_smapl_model.v1.skill.resource_import_status.ResourceImportStatus.to_dict() (ask_smapl_model.v1.skill.validation_details.ValidationDetails.method), 544

to_dict() (ask_smapl_model.v1.skill.response_status.ResponseStatus.to_dict() (ask_smapl_model.v1.skill.validation_endpoint.ValidationEndpoint.method), 545

to_dict() (ask_smapl_model.v1.skill.simulations.alexa_execution_info.AlexaExecutionInfo.to_dict() (ask_smapl_model.v1.skill.validation_feature.ValidationFeature.method), 525

to_dict() (ask_smapl_model.v1.skill.simulations.alexa_response.AlexaResponse.to_dict() (ask_smapl_model.v1.skill.validations.response_validation.ResponseValidation.method), 526

to_dict() (ask_smapl_model.v1.skill.simulations.alexa_response_callback.AlexaResponseCallback.to_dict() (ask_smapl_model.v1.skill.validations.response_validation_incoming.ResponseValidationIncoming.method), 526

to_dict() (ask_smapl_model.v1.skill.simulations.device.Device.to_dict() (ask_smapl_model.v1.skill.validations.response_validation_status.ResponseValidationStatus.method), 526

to_dict() (ask_smapl_model.v1.skill.simulations.input.Input.to_dict() (ask_smapl_model.v1.skill.validations.validations_api_request.ValidationsApiRequest.method), 527

to_dict() (ask_smapl_model.v1.skill.simulations.invocation_request.InvocationRequest.to_dict() (ask_smapl_model.v1.skill.validations.validations_api_response.ValidationsApiResponse.method), 527

to_dict() (ask_smapl_model.v1.skill.simulations.invocation_response.InvocationResponse.to_dict() (ask_smapl_model.v1.skill.validations.validations_api_response_incoming.ValidationsApiResponseIncoming.method), 527

to_dict() (ask_smapl_model.v1.skill.simulations.metrics.Metrics.to_dict() (ask_smapl_model.v1.skill.validations.validations_api_response_status.ValidationsApiResponseStatus.method), 528

to_dict() (ask_smapl_model.v1.skill.simulations.session.Session.to_dict() (ask_smapl_model.v1.skill.withdraw_request.WithdrawRequest.method), 528

to_dict() (ask_smapl_model.v1.skill.simulations.session_mode.SessionMode.to_dict() (ask_smapl_model.v1.stage_type.StageType.method), 528

to_dict() (ask_smapl_model.v1.skill.simulations.simulation_result.SimulationResult.to_dict() (ask_smapl_model.v1.stage_v2_type.StageV2Type.method), 529

to_dict() (ask_smapl_model.v1.skill.simulations.simulation_status.SimulationStatus.to_dict() (ask_smapl_model.v1.stage_v2_type.StageV2Type.method), 529

to_dict() (ask_smapl_model.v1.skill.simulations.simulation_status_response.SimulationStatusResponse.to_dict() (ask_smapl_model.v1.stage_v2_type.StageV2Type.method), 529

to_dict() (ask_smapl_model.v1.skill.simulations.simulation_status_response_status.SimulationStatusResponseStatus.to_dict() (ask_smapl_model.v1.stage_v2_type.StageV2Type.method), 530

to_dict() (ask_smapl_model.v1.skill.simulations.simulation_status_response_status_response.SimulationStatusResponseStatusResponse.to_dict() (ask_smapl_model.v1.stage_v2_type.StageV2Type.method), 530

to_dict() (ask_smapl_model.v1.skill.simulations.simulation_status_response_status_response_status.SimulationStatusResponseStatusResponseStatus.to_dict() (ask_smapl_model.v1.stage_v2_type.StageV2Type.method), 530

to_str() (ask_sdk_model.interfaces.alexa.presentation.html_start_req (ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement method), 128
 to_str() (ask_sdk_model.interfaces.alexa.presentation.html_start_req (ask_sdk_model.interfaces.amazonpay.model.v1.destination_data method), 128
 to_str() (ask_sdk_model.interfaces.alexa.presentation.html_start_req (ask_sdk_model.interfaces.amazonpay.model.v1.payment_action method), 129
 to_str() (ask_sdk_model.interfaces.alexa.presentation.html_start_req (ask_sdk_model.interfaces.amazonpay.model.v1.price.Price method), 130
 to_str() (ask_sdk_model.interfaces.amazonpay.model.request_auth (ask_sdk_model.interfaces.amazonpay.model.v1.provider_attributes method), 131
 to_str() (ask_sdk_model.interfaces.amazonpay.model.request_base (ask_sdk_model.interfaces.amazonpay.model.v1.provider_credentials method), 132
 to_str() (ask_sdk_model.interfaces.amazonpay.model.request_billing (ask_sdk_model.interfaces.amazonpay.model.v1.release_environment method), 133
 to_str() (ask_sdk_model.interfaces.amazonpay.model.request_billing (ask_sdk_model.interfaces.amazonpay.model.v1.seller_billing method), 133
 to_str() (ask_sdk_model.interfaces.amazonpay.model.request_payment (ask_sdk_model.interfaces.amazonpay.model.v1.seller_order_data method), 134
 to_str() (ask_sdk_model.interfaces.amazonpay.model.request_price (ask_sdk_model.interfaces.amazonpay.model.v1.state.State method), 134
 to_str() (ask_sdk_model.interfaces.amazonpay.model.request_provider_attributes (ask_sdk_model.interfaces.amazonpay.request.charge_amazon method), 135
 to_str() (ask_sdk_model.interfaces.amazonpay.model.request_provider_credentials (ask_sdk_model.interfaces.amazonpay.request.setup_amazon method), 135
 to_str() (ask_sdk_model.interfaces.amazonpay.model.request_seller (ask_sdk_model.interfaces.amazonpay.model.v1.seller_billing_data.Attributes method), 136
 to_str() (ask_sdk_model.interfaces.amazonpay.model.request_seller (ask_sdk_model.interfaces.amazonpay.model.v1.seller_order_data.Attributes response.charge_amazon method), 137
 to_str() (ask_sdk_model.interfaces.amazonpay.model.response_auth (ask_sdk_model.interfaces.amazonpay.model.v1.setup_amazon method), 139
 to_str() (ask_sdk_model.interfaces.amazonpay.model.response_auth (ask_sdk_model.interfaces.amazonpay.model.v1.amazon_pay_error method), 140
 to_str() (ask_sdk_model.interfaces.amazonpay.model.response_billing (ask_sdk_model.interfaces.amazonpay.model.v1.details.Attributes method), 141
 to_str() (ask_sdk_model.interfaces.amazonpay.model.response_details (ask_sdk_model.interfaces.amazonpay.v1.charge_amazon_pay method), 142
 to_str() (ask_sdk_model.interfaces.amazonpay.model.response_price (ask_sdk_model.interfaces.amazonpay.v1.setup_amazon_pay method), 142
 to_str() (ask_sdk_model.interfaces.amazonpay.model.response_release (ask_sdk_model.interfaces.amazonpay.v1.setup_amazon_pay method), 143
 to_str() (ask_sdk_model.interfaces.amazonpay.model.response_state (ask_sdk_model.interfaces.audioplayer.audio_item.AudioItem method), 143
 to_str() (ask_sdk_model.interfaces.amazonpay.model.v1.authorize (ask_sdk_model.interfaces.audioplayer.audio_item_metadata.Attributes method), 145
 to_str() (ask_sdk_model.interfaces.amazonpay.model.v1.authorize (ask_sdk_model.interfaces.audioplayer.audio_player_interface.Attributes method), 146
 to_str() (ask_sdk_model.interfaces.amazonpay.model.v1.authorize (ask_sdk_model.interfaces.audioplayer.audio_player_state.Attributes method), 147
 to_str() (ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_data (ask_sdk_model.interfaces.audioplayer.audio_player_state.Attributes method), 147
 to_str() (ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_data (ask_sdk_model.interfaces.audioplayer.audio_player_state.Attributes method), 148
 to_str() (ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_data (ask_sdk_model.interfaces.audioplayer.audio_player_state.Attributes method), 149

`to_str()` (`ask_sdk_model.interfaces.audioplayer.clear_queue_directive.ClearQueueDirective` interfaces.connections.send_request_directive.
 method), 165 method), 183
`to_str()` (`ask_sdk_model.interfaces.audioplayer.current_playback_status.CurrentPlaybackStatus` interfaces.connections.send_response_directive.
 method), 166 method), 184
`to_str()` (`ask_sdk_model.interfaces.audioplayer.error.Error`) `to_str()` (`ask_sdk_model.interfaces.connections.v1.start_connection_directive`
 method), 166 method), 180
`to_str()` (`ask_sdk_model.interfaces.audioplayer.error_type.ErrorType`) `ask_sdk_model.interfaces.custom_interface_controller.endpoint`
 method), 166 method), 184
`to_str()` (`ask_sdk_model.interfaces.audioplayer.play_behavior.PlayBehavior`) `ask_sdk_model.interfaces.custom_interface_controller.event.Event`
 method), 167 method), 185
`to_str()` (`ask_sdk_model.interfaces.audioplayer.play_directive.PlayDirective`) `ask_sdk_model.interfaces.custom_interface_controller.event_filter`
 method), 167 method), 186
`to_str()` (`ask_sdk_model.interfaces.audioplayer.playback_failed_request.PlaybackFailedRequest`) `ask_sdk_model.interfaces.custom_interface_controller.events`
 method), 168 method), 186
`to_str()` (`ask_sdk_model.interfaces.audioplayer.playback_finished_request.PlaybackFinishedRequest`) `ask_sdk_model.interfaces.custom_interface_controller.expiration`
 method), 169 method), 187
`to_str()` (`ask_sdk_model.interfaces.audioplayer.playback_just_finished_request.PlaybackJustFinishedRequest`) `ask_sdk_model.interfaces.custom_interface_controller.expired`
 method), 170 method), 188
`to_str()` (`ask_sdk_model.interfaces.audioplayer.playback_started_request.PlaybackStartedRequest`) `ask_sdk_model.interfaces.custom_interface_controller.filter_name`
 method), 170 method), 188
`to_str()` (`ask_sdk_model.interfaces.audioplayer.playback_stopped_request.PlaybackStoppedRequest`) `ask_sdk_model.interfaces.custom_interface_controller.header`
 method), 171 method), 189
`to_str()` (`ask_sdk_model.interfaces.audioplayer.player_activity.PlayActivity`) `ask_sdk_model.interfaces.custom_interface_controller.send_data`
 method), 171 method), 189
`to_str()` (`ask_sdk_model.interfaces.audioplayer.stop_directive.StopDirective`) `ask_sdk_model.interfaces.custom_interface_controller.start_event`
 method), 172 method), 190
`to_str()` (`ask_sdk_model.interfaces.audioplayer.stream.Stream`) `to_str()` (`ask_sdk_model.interfaces.custom_interface_controller.stop_event`
 method), 172 method), 190
`to_str()` (`ask_sdk_model.interfaces.automotive.automotive_state.AutomotiveState`) `ask_sdk_model.interfaces.display.back_button_behavior.BackButtonBehavior`
 method), 173 method), 191
`to_str()` (`ask_sdk_model.interfaces.connections.connections_request.ConnectionRequest`) `ask_sdk_model.interfaces.display.body_template1.BodyTemplate1`
 method), 181 method), 191
`to_str()` (`ask_sdk_model.interfaces.connections.connections_response.ConnectionResponse`) `ask_sdk_model.interfaces.display.body_template2.BodyTemplate2`
 method), 182 method), 192
`to_str()` (`ask_sdk_model.interfaces.connections.connections_status.ConnectionStatus`) `ask_sdk_model.interfaces.display.body_template3.BodyTemplate3`
 method), 183 method), 193
`to_str()` (`ask_sdk_model.interfaces.connections.entities.base_entity.BaseEntity`) `ask_sdk_model.interfaces.display.body_template6.BodyTemplate6`
 method), 174 method), 193
`to_str()` (`ask_sdk_model.interfaces.connections.entities.postal_address.PostalAddress`) `ask_sdk_model.interfaces.display.body_template7.BodyTemplate7`
 method), 174 method), 194
`to_str()` (`ask_sdk_model.interfaces.connections.entities.restaurant.Restaurant`) `ask_sdk_model.interfaces.display.display_interface.DisplayInterface`
 method), 175 method), 195
`to_str()` (`ask_sdk_model.interfaces.connections.requests_base_request.BaseRequest`) `ask_sdk_model.interfaces.display.display_state.DisplayState`
 method), 176 method), 195
`to_str()` (`ask_sdk_model.interfaces.connections.requests_print_image_request.PrintImageRequest`) `ask_sdk_model.interfaces.display.element_selected_request.ElementSelectedRequest`
 method), 177 method), 195
`to_str()` (`ask_sdk_model.interfaces.connections.requests_print_pdf_request.PrintPDFRequest`) `ask_sdk_model.interfaces.display.hint.Hint`
 method), 177 method), 196
`to_str()` (`ask_sdk_model.interfaces.connections.requests_print_web_page_request.PrintWebPageRequest`) `ask_sdk_model.interfaces.display.hint_directive.HintDirective`
 method), 178 method), 196
`to_str()` (`ask_sdk_model.interfaces.connections.requests_schedule_food_establishment_request.ScheduleFoodEstablishmentRequest`) `ask_sdk_model.interfaces.display.information_request.InformationRequest`
 method), 179 method), 197
`to_str()` (`ask_sdk_model.interfaces.connections.requests_schedule_international_request.ScheduleInternationalRequest`) `ask_sdk_model.interfaces.display.instant_request.InstantRequest`
 method), 179 method), 197

`to_str()` (`ask_sdk_model.interfaces.display.image_size.ImageSize`) (`ask_sdk_model.interfaces.navigation.assistance.announce_ro`
method), 198 *method*), 213
`to_str()` (`ask_sdk_model.interfaces.display.list_item.ListItem`) (`ask_sdk_model.interfaces.navigation.navigation_interface.Na`
method), 198 *method*), 213
`to_str()` (`ask_sdk_model.interfaces.display.list_template.ListTemplate`) (`ask_sdk_model.interfaces.playbackcontroller.next_command_`
method), 199 *method*), 214
`to_str()` (`ask_sdk_model.interfaces.display.list_template2.ListTemplate2`) (`ask_sdk_model.interfaces.playbackcontroller.pause_command`
method), 199 *method*), 215
`to_str()` (`ask_sdk_model.interfaces.display.plain_text.PlainText`) (`ask_sdk_model.interfaces.playbackcontroller.play_command_`
method), 200 *method*), 215
`to_str()` (`ask_sdk_model.interfaces.display.plain_text_hint.PlainTextHint`) (`ask_sdk_model.interfaces.playbackcontroller.previous_comma`
method), 200 *method*), 216
`to_str()` (`ask_sdk_model.interfaces.display.render_template_stored.RenderTemplateStored`) (`ask_sdk_model.interfaces.system.error.Error`
method), 200 *method*), 216
`to_str()` (`ask_sdk_model.interfaces.display.rich_text.RichText`) (`ask_sdk_model.interfaces.system.error_cause.ErrorCause`
method), 201 *method*), 217
`to_str()` (`ask_sdk_model.interfaces.display.template.Template`) (`ask_sdk_model.interfaces.system.error_type.ErrorType`
method), 202 *method*), 217
`to_str()` (`ask_sdk_model.interfaces.display.text_content.TextContent`) (`ask_sdk_model.interfaces.system.exception_encountered_requ`
method), 202 *method*), 218
`to_str()` (`ask_sdk_model.interfaces.display.text_field.TextField`) (`ask_sdk_model.interfaces.system.system_state.SystemState`
method), 203 *method*), 218
`to_str()` (`ask_sdk_model.interfaces.gadget_controller.set_light_directive.AskSdkLightDirective`) (`ask_sdk_model.interfaces.tasks.complete_task_directive.Comp`
method), 204 *method*), 219
`to_str()` (`ask_sdk_model.interfaces.game_engine.input_handler.AskSdkInputHandler`) (`ask_sdk_model.interfaces.tasks.launch_directive.LaunchD`
method), 205 *method*), 220
`to_str()` (`ask_sdk_model.interfaces.game_engine.start_input_handler.AskSdkStartInputHandler`) (`ask_sdk_model.interfaces.tasks.shutdown_directive.ShutdownD`
method), 205 *method*), 220
`to_str()` (`ask_sdk_model.interfaces.game_engine.stop_input_handler.AskSdkStopInputHandler`) (`ask_sdk_model.interfaces.tasks.shutdown_directive.ShutdownD`
method), 206 *method*), 220
`to_str()` (`ask_sdk_model.interfaces.geolocation.access.Access`) (`ask_sdk_model.interfaces.videoapp.video_item.VideoItem`
method), 206 *method*), 221
`to_str()` (`ask_sdk_model.interfaces.geolocation.altitude.Altitude`) (`ask_sdk_model.interfaces.viewport.apl.current_configuration.`
method), 207 *method*), 222
`to_str()` (`ask_sdk_model.interfaces.geolocation.coordinate.Coordinate`) (`ask_sdk_model.interfaces.viewport.apl.viewport_configuration`
method), 207 *method*), 222
`to_str()` (`ask_sdk_model.interfaces.geolocation.geolocation_interface.AskSdkGeolocationInterface`) (`ask_sdk_model.interfaces.viewport.apl_viewport_state.APLVi`
method), 208 *method*), 227
`to_str()` (`ask_sdk_model.interfaces.geolocation.geolocation_state.GeolocationState`) (`ask_sdk_model.interfaces.viewport.aplt.character_format.Cha`
method), 209 *method*), 223
`to_str()` (`ask_sdk_model.interfaces.geolocation.heading.Heading`) (`ask_sdk_model.interfaces.viewport.aplt.inter_segment.InterSe`
method), 209 *method*), 223
`to_str()` (`ask_sdk_model.interfaces.geolocation.location_services.LocationServices`) (`ask_sdk_model.interfaces.viewport.aplt.viewport_profile.View`
method), 210 *method*), 223
`to_str()` (`ask_sdk_model.interfaces.geolocation.speed.Speed`) (`ask_sdk_model.interfaces.viewport.aplt_viewport_state.APLT`
method), 210 *method*), 228
`to_str()` (`ask_sdk_model.interfaces.geolocation.status.Status`) (`ask_sdk_model.interfaces.viewport.experience.Experience`
method), 210 *method*), 228
`to_str()` (`ask_sdk_model.interfaces.messaging.message_received_request.AskSdkMessageReceivedRequest`) (`ask_sdk_model.interfaces.viewport.keyboard.Keyboard`
method), 211 *method*), 229
`to_str()` (`ask_sdk_model.interfaces.monetization.v1.in_skill_product.InSkillProduct`) (`ask_sdk_model.interfaces.viewport.mode.Mode`
method), 212 *method*), 229
`to_str()` (`ask_sdk_model.interfaces.monetization.v1.purchase_result.AskSdkPurchaseResult`) (`ask_sdk_model.interfaces.viewport.presentation_type.Presento`
method), 212 *method*), 229

- to_str() (ask_sdk_model.interfaces.viewport.shape.Shape method), 230
- to_str() (ask_sdk_model.interfaces.viewport.size.continuous_viewport_size.ViewportSize method), 224
- to_str() (ask_sdk_model.interfaces.viewport.size.discrete_viewport_size.ViewportSize method), 225
- to_str() (ask_sdk_model.interfaces.viewport.size.viewport_size.ViewportSize method), 225
- to_str() (ask_sdk_model.interfaces.viewport.touch.Touch method), 230
- to_str() (ask_sdk_model.interfaces.viewport.typed_viewport_state.TypedViewportState method), 231
- to_str() (ask_sdk_model.interfaces.viewport.video.codec.Codec method), 226
- to_str() (ask_sdk_model.interfaces.viewport.viewport_state.ViewportState method), 232
- to_str() (ask_sdk_model.interfaces.viewport.viewport_state_video.Video method), 232
- to_str() (ask_sdk_model.interfaces.viewport.viewport_video_viewport_state.Video method), 233
- to_str() (ask_sdk_model.launch_request.LaunchRequest method), 319
- to_str() (ask_sdk_model.permission_status.PermissionStatus method), 319
- to_str() (ask_sdk_model.permissions.Permissions method), 320
- to_str() (ask_sdk_model.person.Person method), 320
- to_str() (ask_sdk_model.request.Request method), 324
- to_str() (ask_sdk_model.request_envelope.RequestEnvelope method), 324
- to_str() (ask_sdk_model.response.Response method), 325
- to_str() (ask_sdk_model.response_envelope.ResponseEnvelope method), 325
- to_str() (ask_sdk_model.scope.Scope method), 326
- to_str() (ask_sdk_model.services.device_address.address.Address method), 234
- to_str() (ask_sdk_model.services.device_address.error.Error method), 235
- to_str() (ask_sdk_model.services.device_address.short_address.ShortAddress method), 235
- to_str() (ask_sdk_model.services.directive.directive.Directive method), 236
- to_str() (ask_sdk_model.services.directive.error.Error method), 237
- to_str() (ask_sdk_model.services.directive.header.Header method), 237
- to_str() (ask_sdk_model.services.directive.send_directive_request.SendDirectiveRequest method), 237
- to_str() (ask_sdk_model.services.directive.speak_directive.SpeakDirective method), 238
- to_str() (ask_sdk_model.services.endpoint_enumeration.endpoint_capability.EndpointCapability method), 239
- to_str() (ask_sdk_model.services.endpoint_enumeration.endpoint_enumeration.EndpointEnumeration method), 239
- to_str() (ask_sdk_model.services.endpoint_enumeration.endpoint_info.EndpointInfo method), 240
- to_str() (ask_sdk_model.services.endpoint_enumeration.error.Error method), 240
- to_str() (ask_sdk_model.services.gadget_controller.animation_step.AnimationStep method), 241
- to_str() (ask_sdk_model.services.gadget_controller.light_animation.LightAnimation method), 242
- to_str() (ask_sdk_model.services.gadget_controller.set_light_parameters.SetLightParameters method), 242
- to_str() (ask_sdk_model.services.gadget_controller.trigger_event_type.TriggerEventType method), 243
- to_str() (ask_sdk_model.services.game_engine.deviation_recognizer.DeviationRecognizer method), 243
- to_str() (ask_sdk_model.services.game_engine.event.Event method), 244
- to_str() (ask_sdk_model.services.game_engine.event_reporting_type.EventReportingType method), 244
- to_str() (ask_sdk_model.services.game_engine.input_event.InputEvent method), 245
- to_str() (ask_sdk_model.services.game_engine.input_event_action_type.InputEventActionType method), 245
- to_str() (ask_sdk_model.services.game_engine.input_handler_event.InputHandlerEvent method), 246
- to_str() (ask_sdk_model.services.game_engine.pattern.Pattern method), 246
- to_str() (ask_sdk_model.services.game_engine.pattern_recognizer.PatternRecognizer method), 247
- to_str() (ask_sdk_model.services.game_engine.pattern_recognizer_and_recognizer.PatternRecognizerAndRecognizer method), 248
- to_str() (ask_sdk_model.services.game_engine.progress_recognizer.ProgressRecognizer method), 248
- to_str() (ask_sdk_model.services.game_engine.recognizer.Recognizer method), 249
- to_str() (ask_sdk_model.services.list_management.alex_a_list.AlexaList method), 250
- to_str() (ask_sdk_model.services.list_management.alex_a_list_item.AlexaListItem method), 251
- to_str() (ask_sdk_model.services.list_management.alex_a_list_metadata.AlexaListMetadata method), 251
- to_str() (ask_sdk_model.services.list_management.alex_a_lists_metadata.AlexaListsMetadata method), 251
- to_str() (ask_sdk_model.services.list_management.create_list_item_request.CreateListItemRequest method), 252
- to_str() (ask_sdk_model.services.list_management.create_list_request.CreateListRequest method), 252
- to_str() (ask_sdk_model.services.list_management.error.Error method), 253
- to_str() (ask_sdk_model.services.list_management.forbidden_error.ForbiddenError method), 253
- to_str() (ask_sdk_model.services.list_management.links.Link method), 253

to_str() (ask_sdk_model.services.list_management.list_body.ListBody, ask_sdk_model.services.monetization.status.Status method), 254

to_str() (ask_sdk_model.services.list_management.list_created_event(ask_sdk_model.entities.Event, Request, transactions.Transaction method), 254

to_str() (ask_sdk_model.services.list_management.list_deleted_event(ask_sdk_model.entities.Event, Request, create_proactive_event method), 255

to_str() (ask_sdk_model.services.list_management.list_item_body.ListItemBody, ask_sdk_model.services.proactive_events.error.Error method), 256

to_str() (ask_sdk_model.services.list_management.list_item_state.ListItemState, ask_sdk_model.services.proactive_events.event.Event method), 256

to_str() (ask_sdk_model.services.list_management.list_items_create(ask_sdk_model.entities.Event, ProactiveEventRequest, target_audience.Request method), 256

to_str() (ask_sdk_model.services.list_management.list_items_delete(ask_sdk_model.entities.Event, ProactiveEventRequest, target_audience.Request method), 257

to_str() (ask_sdk_model.services.list_management.list_items_update(ask_sdk_model.entities.Event, ProactiveEventRequest, skill_stage.SkillStage method), 258

to_str() (ask_sdk_model.services.list_management.list_states.ListState, ask_sdk_model.services.reminder_management.alert_info.AlertInfo method), 261

to_str() (ask_sdk_model.services.list_management.list_updated_event(ask_sdk_model.entities.Event, ProactiveEventRequest, reminder_management.alert_info.AlertInfo method), 261

to_str() (ask_sdk_model.services.list_management.status.Status, ask_sdk_model.services.reminder_management.error.Error method), 262

to_str() (ask_sdk_model.services.list_management.update_list_item(ask_sdk_model.entities.Event, ProactiveEventRequest, reminder_management.event.Event method), 262

to_str() (ask_sdk_model.services.list_management.update_list_request.UpdateListRequest, reminder_management.get_reminder.get_reminder method), 263

to_str() (ask_sdk_model.services.lwa.access_token_request.AccessTokenRequest, ask_sdk_model.services.reminder_management.get_reminders.get_reminders method), 264

to_str() (ask_sdk_model.services.lwa.access_token_response.AccessTokenResponse, ask_sdk_model.services.reminder_management.push_notification.push_notification method), 264

to_str() (ask_sdk_model.services.lwa.error.Error, ask_sdk_model.services.reminder_management.push_notification.push_notification method), 265

to_str() (ask_sdk_model.services.monetization.entitled_state.EntitledState, ask_sdk_model.services.reminder_management.recurrence.RecurringReminder method), 266

to_str() (ask_sdk_model.services.monetization.entitlement_reason.EntitlementReason, ask_sdk_model.services.reminder_management.recurrence_data.RecurringReminderData method), 266

to_str() (ask_sdk_model.services.monetization.error.Error, ask_sdk_model.services.reminder_management.recurrence_frequency.RecurringReminderFrequency method), 267

to_str() (ask_sdk_model.services.monetization.in_skill_products(SkillProduct, ask_sdk_model.services.reminder_management.reminder.RecurringReminder method), 268

to_str() (ask_sdk_model.services.monetization.in_skill_products(SkillProduct, ask_sdk_model.entities.Event, ProactiveEventRequest, reminder_creation.RecurringReminderCreation method), 268

to_str() (ask_sdk_model.services.monetization.in_skill_products(ask_sdk_model.entities.Event, ProactiveEventRequest, reminder_management.reminder_delete.RecurringReminderDelete method), 269

to_str() (ask_sdk_model.services.monetization.metadata.Metadata, ask_sdk_model.services.reminder_management.reminder_delete.RecurringReminderDelete method), 269

to_str() (ask_sdk_model.services.monetization.product_type.ProductType, ask_sdk_model.services.reminder_management.reminder_request.RecurringReminderRequest method), 272

to_str() (ask_sdk_model.services.monetization.purchasable_state(PurchasableState, ask_sdk_model.services.reminder_management.reminder_response.RecurringReminderResponse method), 272

to_str() (ask_sdk_model.services.monetization.purchase_mode.PurchaseMode, ask_sdk_model.services.reminder_management.reminder_start.RecurringReminderStart method), 272

to_str() (ask_sdk_model.services.monetization.result_set.ResultSet, ask_sdk_model.services.reminder_management.reminder_status.RecurringReminderStatus method), 273

to_str() (ask_sdk_model.services.reminder_management.reminder.UpdateReminderRequest method), 290

to_str() (ask_sdk_model.services.reminder_management.spoken_text.SpokenText method), 290

to_str() (ask_sdk_model.services.reminder_management.status.Status(ask_sdk_model.ui.image.Image method), method), 291

to_str() (ask_sdk_model.services.reminder_management.trigger.Trigger(ask_sdk_model.ui.link_account_card.LinkAccountCard method), 291

to_str() (ask_sdk_model.services.reminder_management.trigger_type.TriggerType(ask_sdk_model.ui.output_speech.OutputSpeech method), 292

to_str() (ask_sdk_model.services.skill_messaging.error.Error method), 292

to_str() (ask_sdk_model.services.skill_messaging.send_skill_request.SendSkillRequest(ask_sdk_model.skill_messaging.PlayBehavior method), 293

to_str() (ask_sdk_model.services.ups.distance_units.DistanceUnits(ask_sdk_model.ui.reprompt.Reprompt method), 294

to_str() (ask_sdk_model.services.ups.error.Error method), 295

to_str() (ask_sdk_model.services.ups.error_code.ErrorCode method), 295

to_str() (ask_sdk_model.services.ups.phone_number.PhoneNumber(ask_sdk_model.ui.standard_card.StandardCard method), 296

to_str() (ask_sdk_model.services.ups.temperature_unit.TemperatureUnit(ask_sdk_model.user.User method), 296

to_str() (ask_sdk_model.session.Session method), 326

to_str() (ask_sdk_model.session_ended_error.SessionEndedError method), 327

to_str() (ask_sdk_model.session_ended_error_type.SessionEndedErrorType method), 327

to_str() (ask_sdk_model.session_ended_reason.SessionEndedReason method), 328

to_str() (ask_sdk_model.session_ended_request.SessionEndedRequest method), 328

to_str() (ask_sdk_model.session_resumed_request.SessionResumedRequest method), 329

to_str() (ask_sdk_model.slot.Slot method), 330

to_str() (ask_sdk_model.slot_confirmation_status.SlotConfirmationStatus(ask_sdk_model.v1.catalog.upload.catalog_upload_base.CatalogUploadBase method), 330

to_str() (ask_sdk_model.slu.entityresolution.resolution.Resolution(ask_sdk_model.v1.catalog.upload.content_upload_file_summary.ContentUploadFileSummary method), 304

to_str() (ask_sdk_model.slu.entityresolution.resolutions.Resolutions(ask_sdk_model.v1.catalog.upload.file_upload_status.FileUploadStatus method), 304

to_str() (ask_sdk_model.slu.entityresolution.status.Status(ask_sdk_model.v1.catalog.upload.get_content_upload_response.GetContentUploadResponse method), 304

to_str() (ask_sdk_model.slu.entityresolution.status_code.StatusCode(ask_sdk_model.v1.catalog.upload.ingestion_status.IngestionStatus method), 305

to_str() (ask_sdk_model.slu.entityresolution.value.Value(ask_sdk_model.v1.catalog.upload.ingestion_step_name.IngestionStepName method), 305

to_str() (ask_sdk_model.slu.entityresolution.value_wrapper.ValueWrapper(ask_sdk_model.v1.catalog.upload.location.Location method), 306

to_str() (ask_sdk_model.status.Status method), 330

to_str() (ask_sdk_model.supported_interfaces.SupportedInterfaces method), 331

to_str() (ask_sdk_model.ui.ask_for_permissions_consent_card.AskForPermissionsConsentCard method), 307

to_str() (ask_sdk_model.ui.card.Card method), 307

to_str() (ask_sdk_model.ui.link_account_card.LinkAccountCard method), 307

to_str() (ask_sdk_model.ui.output_speech.OutputSpeech method), 308

to_str() (ask_sdk_model.ui.plain_text_output_speech.PlainTextOutputSpeech method), 309

to_str() (ask_sdk_model.ui.reprompt.Reprompt method), 309

to_str() (ask_sdk_model.ui.simple_card.SimpleCard method), 310

to_str() (ask_sdk_model.ui.ssml_output_speech.SsmlOutputSpeech method), 310

to_str() (ask_sdk_model.ui.standard_card.StandardCard method), 310

to_str() (ask_sdk_model.user.User method), 332

to_str() (ask_sdk_model_runtime.lwa.access_token_request.AccessTokenRequest method), 56

to_str() (ask_sdk_model_runtime.lwa.access_token_response.AccessTokenResponse method), 57

to_str() (ask_sdk_model_runtime.lwa.error.Error method), 57

to_str() (ask_smapi_model.v1.bad_request_error.BadRequestError method), 556

to_str() (ask_smapi_model.v1.catalog.create_content_upload_url_request.CreateContentUploadUrlRequest method), 387

to_str() (ask_smapi_model.v1.catalog.create_content_upload_url_response.CreateContentUploadUrlResponse method), 387

to_str() (ask_smapi_model.v1.catalog.presigned_upload_part_items.PreSignedUploadPartItems method), 388

to_str() (ask_smapi_model.v1.catalog.upload.catalog_upload_base.CatalogUploadBase method), 382

to_str() (ask_smapi_model.v1.catalog.upload.content_upload_file_summary.ContentUploadFileSummary method), 382

to_str() (ask_smapi_model.v1.catalog.upload.file_upload_status.FileUploadStatus method), 383

to_str() (ask_smapi_model.v1.catalog.upload.get_content_upload_response.GetContentUploadResponse method), 383

to_str() (ask_smapi_model.v1.catalog.upload.ingestion_status.IngestionStatus method), 384

to_str() (ask_smapi_model.v1.catalog.upload.ingestion_step_name.IngestionStepName method), 384

to_str() (ask_smapi_model.v1.catalog.upload.location.Location method), 384

to_str() (ask_smapi_model.v1.catalog.upload.pre_signed_url.PreSignedUrl method), 385

to_str() (ask_smapi_model.v1.catalog.upload.pre_signed_url_item.PreSignedUrlItem method), 385

method), 385
 to_str() (ask_smapi_model.v1.catalog.upload.upload_integristep.UploadIntegristep method), 407
 method), 386
 to_str() (ask_smapi_model.v1.catalog.upload.upload_status.UploadStatus method), 407
 method), 386
 to_str() (ask_smapi_model.v1.error.Error method), to_str() (ask_smapi_model.v1.isp.subscription_information.SubscriptionInformation method), 408
 556
 to_str() (ask_smapi_model.v1.isp.associated_skill_response.AssociatedSkillResponse method), 408
 method), 389
 to_str() (ask_smapi_model.v1.isp.create_in_skill_product_request.CreateInSkillProductRequest method), 409
 method), 389
 to_str() (ask_smapi_model.v1.isp.currency.Currency method), to_str() (ask_smapi_model.v1.isp.summary_marketplace_pricing.SummaryMarketplacePricing method), 409
 method), 389
 to_str() (ask_smapi_model.v1.isp.custom_product_prompts.CustomProductPrompts method), to_str() (ask_smapi_model.v1.isp.update_in_skill_product_request.UpdateInSkillProductRequest method), 410
 method), 390
 to_str() (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries method), to_str() (ask_smapi_model.v1.link.Link method), 557
 method), 397
 to_str() (ask_smapi_model.v1.isp.editable_state.EditableState method), to_str() (ask_smapi_model.v1.links.Links method),
 method), 397
 557
 to_str() (ask_smapi_model.v1.isp.in_skill_product_definition.InSkillProductDefinition method), to_str() (ask_smapi_model.v1.skill.account_linking.access_token_schema.AccessTokenSchema method), 557
 method), 398
 to_str() (ask_smapi_model.v1.isp.in_skill_product_definition_response.InSkillProductDefinitionResponse method), to_str() (ask_smapi_model.v1.skill.account_linking.account_linking_request.AccountLinkingRequest method), 557
 method), 399
 to_str() (ask_smapi_model.v1.isp.in_skill_product_definition_response.InSkillProductDefinitionResponse method), to_str() (ask_smapi_model.v1.skill.account_linking.account_linking_response.AccountLinkingResponse method), 557
 method), 400
 to_str() (ask_smapi_model.v1.isp.in_skill_product_summary.InSkillProductSummary method), to_str() (ask_smapi_model.v1.skill.account_linking.account_linking_type.AccountLinkingType method), 557
 method), 400
 to_str() (ask_smapi_model.v1.isp.in_skill_product_summary_response.InSkillProductSummaryResponse method), to_str() (ask_smapi_model.v1.skill.action.Action method), 557
 method), 400
 to_str() (ask_smapi_model.v1.isp.isp_summary_links.IspSummaryLinks method), 534
 method), 401
 to_str() (ask_smapi_model.v1.isp.isp_summary_links.IspSummaryLinks method), 534
 method), 401
 to_str() (ask_smapi_model.v1.isp.list_in_skill_product.ListInSkillProduct method), 535
 method), 401
 to_str() (ask_smapi_model.v1.isp.list_in_skill_product_response.ListInSkillProductResponse method), 535
 method), 401
 to_str() (ask_smapi_model.v1.isp.localised_privacy_and_compliance.LocalisedPrivacyAndCompliance method), 402
 method), 402
 to_str() (ask_smapi_model.v1.isp.localised_privacy_and_compliance.LocalisedPrivacyAndCompliance method), 402
 method), 402
 to_str() (ask_smapi_model.v1.isp.localised_publishing_information.LocalisedPublishingInformation method), 403
 method), 403
 to_str() (ask_smapi_model.v1.isp.localised_publishing_information.LocalisedPublishingInformation method), 403
 method), 403
 to_str() (ask_smapi_model.v1.isp.marketplace_pricing.MarketplacePricing method), 415
 method), 403
 to_str() (ask_smapi_model.v1.isp.marketplace_pricing.MarketplacePricing method), 415
 method), 403
 to_str() (ask_smapi_model.v1.isp.price_listing.PriceListing method), 416
 method), 404
 to_str() (ask_smapi_model.v1.isp.price_listing.PriceListing method), 416
 method), 404
 to_str() (ask_smapi_model.v1.isp.privacy_and_compliance.PrivacyAndCompliance method), 404
 method), 404
 to_str() (ask_smapi_model.v1.isp.privacy_and_compliance.PrivacyAndCompliance method), 404
 method), 404
 to_str() (ask_smapi_model.v1.isp.product_response.ProductResponse method), 417
 method), 405
 to_str() (ask_smapi_model.v1.isp.product_response.ProductResponse method), 417
 method), 405
 to_str() (ask_smapi_model.v1.isp.product_type.ProductType method), 417
 method), 405
 to_str() (ask_smapi_model.v1.isp.product_type.ProductType method), 417
 method), 405
 to_str() (ask_smapi_model.v1.isp.publishing_information.PublishingInformation method), 406
 method), 406
 to_str() (ask_smapi_model.v1.isp.publishing_information.PublishingInformation method), 406
 method), 406
 to_str() (ask_smapi_model.v1.isp.purchasable_state.PurchasableState method), 418
 method), 406
 to_str() (ask_smapi_model.v1.isp.purchasable_state.PurchasableState method), 418
 method), 406
 to_str() (ask_smapi_model.v1.isp.stage.Stage method), 418
 method), 406
 to_str() (ask_smapi_model.v1.isp.stage.Stage method), 418
 method), 406
 to_str() (ask_smapi_model.v1.isp.status.Status method), 421
 method), 421

to_str() (ask_smapi_model.v1.skill.image_dimension.ImageDimension method), 539

to_str() (ask_smapi_model.v1.skill.image_size.ImageSize method), 539

to_str() (ask_smapi_model.v1.skill.image_size_unit.ImageSizeUnit method), 540

to_str() (ask_smapi_model.v1.skill.import_response.ImportResponse method), 540

to_str() (ask_smapi_model.v1.skill.import_response_skill.ImportResponseSkill method), 541

to_str() (ask_smapi_model.v1.skill.instance.Instance method), 541

to_str() (ask_smapi_model.v1.skill.interaction_model.catalog_item.CatalogItem method), 442

to_str() (ask_smapi_model.v1.skill.interaction_model.catalog_item.CatalogItem method), 443

to_str() (ask_smapi_model.v1.skill.interaction_model.catalog_item.CatalogItem method), 443

to_str() (ask_smapi_model.v1.skill.interaction_model.catalog_item.CatalogItem method), 444

to_str() (ask_smapi_model.v1.skill.interaction_model.catalog_item.CatalogItem method), 444

to_str() (ask_smapi_model.v1.skill.interaction_model.catalog_item.CatalogItem method), 445

to_str() (ask_smapi_model.v1.skill.interaction_model.catalog_item.CatalogItem method), 445

to_str() (ask_smapi_model.v1.skill.interaction_model.catalog_item.CatalogItem method), 446

to_str() (ask_smapi_model.v1.skill.interaction_model.catalog_item.CatalogItem method), 446

to_str() (ask_smapi_model.v1.skill.interaction_model.catalog_item.CatalogItem method), 447

to_str() (ask_smapi_model.v1.skill.interaction_model.catalog_item.CatalogItem method), 447

to_str() (ask_smapi_model.v1.skill.interaction_model.catalog_item.CatalogItem method), 453

to_str() (ask_smapi_model.v1.skill.interaction_model.delegation.Delegation method), 453

to_str() (ask_smapi_model.v1.skill.interaction_model.dialog.Dialog method), 454

to_str() (ask_smapi_model.v1.skill.interaction_model.dialog.Dialog method), 454

to_str() (ask_smapi_model.v1.skill.interaction_model.dialog_intent.DialogIntent method), 455

to_str() (ask_smapi_model.v1.skill.interaction_model.dialog_intent.DialogIntent method), 455

to_str() (ask_smapi_model.v1.skill.interaction_model.dialog_intent.DialogIntent method), 456

to_str() (ask_smapi_model.v1.skill.interaction_model.has_entity.HasEntity method), 457

to_str() (ask_smapi_model.v1.skill.interaction_model.intent.Intent method), 457

to_str() (ask_smapi_model.v1.skill.interaction_model.interaction_model.Interaction model), 458

to_str() (ask_smapi_model.v1.skill.interaction_model.interaction_model.Interaction model), 459

to_str() (ask_smapi_model.v1.skill.interaction_model.is_greater_than.IsGreaterThan method), 459

to_str() (ask_smapi_model.v1.skill.interaction_model.is_greater_than.IsGreaterThan method), 459

to_str() (ask_smapi_model.v1.skill.interaction_model.is_in_duration.IsInDuration method), 460

to_str() (ask_smapi_model.v1.skill.interaction_model.is_in_set.IsInSet method), 461

to_str() (ask_smapi_model.v1.skill.interaction_model.is_less_than.IsLessThan method), 461

to_str() (ask_smapi_model.v1.skill.interaction_model.is_less_than_or_equal_to.IsLessThanOrEqualTo method), 461

to_str() (ask_smapi_model.v1.skill.interaction_model.is_not_in_duration.IsNotInDuration method), 462

to_str() (ask_smapi_model.v1.skill.interaction_model.is_not_in_set.IsNotInSet method), 463

to_str() (ask_smapi_model.v1.skill.interaction_model.language_model.Language model), 463

to_str() (ask_smapi_model.v1.skill.interaction_model.prompt.Prompt method), 464

to_str() (ask_smapi_model.v1.skill.interaction_model.prompt.Status method), 464

to_str() (ask_smapi_model.v1.skill.interaction_model.prompt_items.PromptItems method), 464

to_str() (ask_smapi_model.v1.skill.interaction_model.prompt_items.Type method), 464

to_str() (ask_smapi_model.v1.skill.interaction_model.slot_definition.SlotDefinition method), 465

to_str() (ask_smapi_model.v1.skill.interaction_model.slot_type.SlotType method), 466

to_str() (ask_smapi_model.v1.skill.interaction_model.slot_validation.SlotValidation method), 467

to_str() (ask_smapi_model.v1.skill.interaction_model.value_catalog.ValueCatalog method), 467

to_str() (ask_smapi_model.v1.skill.interaction_model.value_supplier.ValueSupplier method), 468

to_str() (ask_smapi_model.v1.skill.interaction_model.version.catalog_item.CatalogItem method), 448

to_str() (ask_smapi_model.v1.skill.interaction_model.version.catalog_item.CatalogItem method), 448

to_str() (ask_smapi_model.v1.skill.interaction_model.version.catalog_item.CatalogItem method), 449

to_str() (ask_smapi_model.v1.skill.interaction_model.version.catalog_item.CatalogItem method), 449

to_str() (ask_smapi_model.v1.skill.interaction_model.version.catalog_item.CatalogItem method), 450

to_str() (ask_smapi_model.v1.skill.interaction_model.version.catalog_item.CatalogItem method), 450

to_str() (ask_smapi_model.v1.skill.interaction_model.version.catalog_item.CatalogItem method), 451

to_str() (ask_smapi_model.v1.skill.interaction_model.version.catalog_item.CatalogItem method), 451

to_str() (ask_smapi_model.v1.skill.interaction_model.version.catalog_item.CatalogItem method), 452

`to_str()` (`ask_smapl_model.v1.skill.interaction_model.version.version_of_systems_versions_model.v1.skill.manifest.health_apis.HealthApis`
method), 452 `method`), 494
`to_str()` (`ask_smapl_model.v1.skill.list_skill_response.ListSkillResponse`) (`ask_smapl_model.v1.skill.manifest.health_interface.HealthInt`
method), 542 `method`), 495
`to_str()` (`ask_smapl_model.v1.skill.manifest.alexa_for_business_api.AlexaForBusinessApi`) (`ask_smapl_model.v1.skill.manifest.health_protocol_version.H`
method), 469 `method`), 495
`to_str()` (`ask_smapl_model.v1.skill.manifest.alexa_for_business_interface.AlexaForBusinessInterface`) (`ask_smapl_model.v1.skill.manifest.health_request.HealthRequ`
method), 469 `method`), 495
`to_str()` (`ask_smapl_model.v1.skill.manifest.alexa_preservation_api.AlexaPreservationApi`) (`ask_smapl_model.v1.skill.manifest.house_hold_list.HouseHol`
method), 470 `method`), 496
`to_str()` (`ask_smapl_model.v1.skill.manifest.audio_interface.AudioInterface`) (`ask_smapl_model.v1.skill.manifest.interface.Interface`
method), 470 `method`), 497
`to_str()` (`ask_smapl_model.v1.skill.manifest.connection_constructor.ConnectionConstructor`) (`ask_smapl_model.v1.skill.manifest.lambda_endpoint.Lambda`
method), 471 `method`), 497
`to_str()` (`ask_smapl_model.v1.skill.manifest.connection_payload.ConnectionPayload`) (`ask_smapl_model.v1.skill.manifest.lambda_region.LambdaRe`
method), 471 `method`), 497
`to_str()` (`ask_smapl_model.v1.skill.manifest.custom_apis.CustomApis`) (`ask_smapl_model.v1.skill.manifest.localized_flash_briefing_in`
method), 472 `method`), 498
`to_str()` (`ask_smapl_model.v1.skill.manifest.custom_connections.CustomConnections`) (`ask_smapl_model.v1.skill.manifest.localized_flash_briefing_in`
method), 472 `method`), 499
`to_str()` (`ask_smapl_model.v1.skill.manifest.custom_interface.CustomInterface`) (`ask_smapl_model.v1.skill.manifest.localized_health_info.Loca`
method), 473 `method`), 499
`to_str()` (`ask_smapl_model.v1.skill.manifest.display_interface_displayable.Displayable`) (`ask_smapl_model.v1.skill.manifest.localized_music_info.Loca`
method), 473 `method`), 500
`to_str()` (`ask_smapl_model.v1.skill.manifest.display_interface_displayable_displayable_displayable_displayable_displayable_displayable_displayable`
method), 473 `method`), 501
`to_str()` (`ask_smapl_model.v1.skill.manifest.display_interface_displayable_displayable_displayable_displayable_displayable_displayable_displayable`
method), 474 `method`), 501
`to_str()` (`ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries`) (`ask_smapl_model.v1.skill.manifest.music_apis.MusicApis`
method), 481 `method`), 502
`to_str()` (`ask_smapl_model.v1.skill.manifest.distribution_mode.DistributionMode`) (`ask_smapl_model.v1.skill.manifest.music_capability.MusicCap`
method), 481 `method`), 502
`to_str()` (`ask_smapl_model.v1.skill.manifest.event_name.EventName`) (`ask_smapl_model.v1.skill.manifest.music_content_name.Musi`
method), 482 `method`), 503
`to_str()` (`ask_smapl_model.v1.skill.manifest.event_name_type.EventNameType`) (`ask_smapl_model.v1.skill.manifest.music_content_type.Music`
method), 490 `method`), 503
`to_str()` (`ask_smapl_model.v1.skill.manifest.event_publications.EventPublications`) (`ask_smapl_model.v1.skill.manifest.music_feature.MusicFeatur`
method), 490 `method`), 503
`to_str()` (`ask_smapl_model.v1.skill.manifest.flash_briefing_apis.FlashBriefingApis`) (`ask_smapl_model.v1.skill.manifest.music_interfaces.MusicInte`
method), 491 `method`), 504
`to_str()` (`ask_smapl_model.v1.skill.manifest.flash_briefing_content_type.FlashBriefingContentType`) (`ask_smapl_model.v1.skill.manifest.music_request.MusicReque`
method), 491 `method`), 504
`to_str()` (`ask_smapl_model.v1.skill.manifest.flash_briefing_genre.FlashBriefingGenre`) (`ask_smapl_model.v1.skill.manifest.music_wordmark.MusicWo`
method), 492 `method`), 504
`to_str()` (`ask_smapl_model.v1.skill.manifest.flash_briefing_update.FlashBriefingUpdate`) (`ask_smapl_model.v1.skill.manifest.permission_items.Permissi`
method), 492 `method`), 505
`to_str()` (`ask_smapl_model.v1.skill.manifest.gadget_controller_interface.GadgetControllerInterface`) (`ask_smapl_model.v1.skill.manifest.permission_name.Permissi`
method), 493 `method`), 506
`to_str()` (`ask_smapl_model.v1.skill.manifest.gadget_support.GadgetSupport`) (`ask_smapl_model.v1.skill.manifest.region.Region`
method), 493 `method`), 506
`to_str()` (`ask_smapl_model.v1.skill.manifest.game_engine_interface.GameEngineInterface`) (`ask_smapl_model.v1.skill.manifest.request.Request`
method), 493 `method`), 507
`to_str()` (`ask_smapl_model.v1.skill.manifest.health_alias.HealthAlias`) (`ask_smapl_model.v1.skill.manifest.request_name.RequestNam`
method), 494 `method`), 507

to_str() (ask_smapl_model.v1.skill.manifest.skill_manifest_skill_manifest_model.v1.skill.metrics.skill_type.SkillType method), 508

to_str() (ask_smapl_model.v1.skill.manifest.skill_manifest_skill_manifest_model.v1.skill.metrics.stage_for_metric.StageForMetric method), 509

to_str() (ask_smapl_model.v1.skill.manifest.skill_manifest_skill_manifest_model.v1.skill.metrics.accept_status.AcceptStatus method), 509

to_str() (ask_smapl_model.v1.skill.manifest.skill_manifest_skill_manifest_model.v1.skill.private.list_private_distribution_accounts(SkillManifestEndpoints.skill.private.list_private_distribution_accounts method), 510

to_str() (ask_smapl_model.v1.skill.manifest.skill_manifest_skill_manifest_model.v1.skill.private.private_distribution_accounts(SkillManifestEndpoints.skill.private.private_distribution_accounts method), 510

to_str() (ask_smapl_model.v1.skill.manifest.skill_manifest_skill_manifest_model.v1.skill.publication_method.PublicationMethod method), 511

to_str() (ask_smapl_model.v1.skill.manifest.skill_manifest_skill_manifest_model.v1.skill.privacy_and_compliance.SkillManifestSerializedPrivacyAndCompliance method), 511

to_str() (ask_smapl_model.v1.skill.manifest.skill_manifest_skill_manifest_model.v1.skill.certified_publications(SkillManifestSerializedPublications method), 512

to_str() (ask_smapl_model.v1.skill.manifest.skill_manifest_skill_manifest_model.v1.skill.private_privacy_and_compliance_resource(SkillManifestSerializedPrivacyAndComplianceResource method), 513

to_str() (ask_smapl_model.v1.skill.manifest.skill_manifest_skill_manifest_model.v1.skill.publishing_status.PublishingStatus method), 515

to_str() (ask_smapl_model.v1.skill.manifest.smart_home_capabilities(SkillManifestSmartHomeCapabilities method), 515

to_str() (ask_smapl_model.v1.skill.manifest.smart_home_protocol(SkillManifestSmartHomeProtocol method), 516

to_str() (ask_smapl_model.v1.skill.manifest.ssl_certificate_type.SSLCertificateType method), 516

to_str() (ask_smapl_model.v1.skill.manifest.up_channel_items.UpChannelItems method), 516

to_str() (ask_smapl_model.v1.skill.manifest.version.Version method), 517

to_str() (ask_smapl_model.v1.skill.manifest.video_api.VideoApi method), 517

to_str() (ask_smapl_model.v1.skill.manifest.video_api_location.VideoApiLocation method), 518

to_str() (ask_smapl_model.v1.skill.manifest.video_app_interface.VideoAppInterface method), 518

to_str() (ask_smapl_model.v1.skill.manifest.video_catalog_info.VideoCatalogInfo method), 518

to_str() (ask_smapl_model.v1.skill.manifest.video_country_info.VideoCountryInfo method), 519

to_str() (ask_smapl_model.v1.skill.manifest.video_region.VideoRegion method), 519

to_str() (ask_smapl_model.v1.skill.manifest.viewport_mode.ViewportMode method), 520

to_str() (ask_smapl_model.v1.skill.manifest.viewport_shape.ViewportShape method), 520

to_str() (ask_smapl_model.v1.skill.manifest.viewport_specification.ViewportSpecification method), 521

to_str() (ask_smapl_model.v1.skill.metrics.get_metric_data_response(SkillMetricDataResponse.skill_interaction_model_status.SkillInteractionModelStatus method), 521

to_str() (ask_smapl_model.v1.skill.metrics.metric.Metric method), 522

to_str() (ask_smapl_model.v1.skill.skill_status.SkillStatus method), 546

to_str() (ask_smapl_model.v1.skill.metrics.period.Period method), 522

to_str() (ask_smapl_model.v1.skill.skill_summary.SkillSummary method), 547

to_str() (ask_smapl_model.v1.skill.skill_summary_api.SkillSummaryApiResponse.distribution_countries.DistributionCountries method), 547
 to_str() (ask_smapl_model.v1.skill.ssl_certificate_payload.SSLCertificatePayload.distribution_countries.DistributionCountries method), 548
 to_str() (ask_smapl_model.v1.skill.standardized_error.StandardizedError (class in ask_sdk_model.services.monetization.transactions), method), 548
 to_str() (ask_smapl_model.v1.skill.status.Status 273 method), 549
 to_str() (ask_smapl_model.v1.skill.submit_skill_for_certification_request.SubmitSkillForCertificationRequest.html.transformer), method), 549
 to_str() (ask_smapl_model.v1.skill.update_skill_with_package_request.UpdateSkillWithPackageRequest in ask_sdk_model.interfaces.alexa.presentation.html.transformer_type), method), 549
 to_str() (ask_smapl_model.v1.skill.upload_response.UploadResponse 129 method), 550
 to_str() (ask_smapl_model.v1.skill.validation_data_types.ValidationDataTypes in ask_sdk_model.interfaces.alexa.presentation.apl.transform_property), method), 550
 to_str() (ask_smapl_model.v1.skill.validation_details.ValidationDetails in ask_sdk_model.services.reminder_management.trigger_type), method), 553
 to_str() (ask_smapl_model.v1.skill.validation_endpoint.ValidationEndpointType (class in ask_sdk_model.services.gadget_controller.trigger_event_type), method), 553
 to_str() (ask_smapl_model.v1.skill.validation_feature.ValidationFeature (class in TriggerType), method), 554
 to_str() (ask_smapl_model.v1.skill.validations.response_validations.ResponseValidations in reminder_management.trigger_type), method), 531
 to_str() (ask_smapl_model.v1.skill.validations.response_validation(ResponseValidation in skill_validation_response_certificate_type.SSLCertificateType), method), 532
 to_str() (ask_smapl_model.v1.skill.validations.response_validation(ResponseValidation in distribution_countries.DistributionCountries), method), 532
 to_str() (ask_smapl_model.v1.skill.validations.validation_api_requirement.ValidationApiRequirement in skill_manifest.distribution_countries.DistributionCountries), method), 532
 to_str() (ask_smapl_model.v1.skill.validations.validation_api_response_validation(ApiResponseValidation in reminder_management.recurrence_day.RecurrenceDay), method), 533
 to_str() (ask_smapl_model.v1.skill.validations.validation_api_response_validation(ApiResponseValidation in flicker_views.ApiResponseValidation), method), 533
 to_str() (ask_smapl_model.v1.skill.validations.validation_api_status_validation(ApiResponseStatusValidation in distribution_countries.DistributionCountries), method), 534
 to_str() (ask_smapl_model.v1.skill.withdraw_request.WithdrawRequest in ask_sdk_model.v1.skill.manifest.distribution_countries.DistributionCountries), method), 554
 to_str() (ask_smapl_model.v1.stage_type.StageType TV (ask_smapl_model.v1.skill.manifest.viewport_mode.ViewportMode), method), 557
 to_str() (ask_smapl_model.v1.stage_v2_type.StageV2Type TV_LANDSCAPE_MEDIUM (ask_sdk_core.utils.viewport.ViewportProfile), method), 558
 to_str() (ask_smapl_model.v1.vendor_management.vendor.Vendor (class in TV_LANDSCAPE_XLARGE), method), 555
 to_str() (ask_smapl_model.v1.vendor_management.vendors.Vendor (class in ask_sdk_core.utils.viewport.ViewportProfile), method), 555
 totalEnablements (ask_smapl_model.v1.skill.metrics.metric.Metric METIT_MEDIUM (ask_sdk_core.utils.viewport.ViewportProfile), attribute), 522
 totalSessions (ask_smapl_model.v1.skill.metrics.metric.Metric TW (ask_smapl_model.v1.isp.distribution_countries.DistributionCountries), attribute), 522
 totalUtterances (ask_smapl_model.v1.skill.metrics.metric.Metric TW (ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries), attribute), 522
 Touch (class in ask_sdk_model.interfaces.viewport.touch), attribute), 480
 230 TypedViewportState (class in

`ask_sdk_model.interfaces.viewport.typed_viewport_state`), (`ask_smapi_model.services.skill_management.skill_management_230` method), 379

TZ (`ask_smapi_model.v1.isp.distribution_countries.DistributionCountries` interaction_model_catalog_version_v1() attribute), 396 (`ask_smapi_model.services.skill_management.skill_management_379` method), 379

TZ (`ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries` update_interaction_model_slot_type_v1() attribute), 480 (`ask_smapi_model.services.skill_management.skill_management_379` method), 379

U

UA (`ask_smapi_model.v1.isp.distribution_countries.DistributionCountries` update_interaction_model_slot_type_version_v1() attribute), 396 (`ask_smapi_model.services.skill_management.skill_management_379` method), 379

UA (`ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries` update_isp_for_product_v1() attribute), 480 (`ask_smapi_model.services.skill_management.skill_management_380` method), 380

UG (`ask_smapi_model.v1.isp.distribution_countries.DistributionCountries` update_list() (`ask_sdk_model.services.list_management.list_management_260` method), 260

UG (`ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries` update_list_item() (`ask_sdk_model.services.list_management.list_management_260` method), 260

UM (`ask_smapi_model.v1.isp.distribution_countries.DistributionCountries` update_list_item() (`ask_sdk_model.services.list_management.list_management_260` method), 260

UM (`ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries` update_properties_for_nlu_annotation_sets_v1() attribute), 480 (`ask_smapi_model.services.skill_management.skill_management_380` method), 380

UNAVAILABLE (`ask_smapi_model.v1.catalog.upload.file_upload_status.FileUploadStatus` update_relevant_audience_type_relevant_audience_type() attribute), 383 (`ask_sdk_model.services.reminder_management.reminder_management_286` method), 286

Unicast (`ask_sdk_model.services.proactive_events.relevant_audience_type.RelevantAudienceType` update_skill_manifest_v1() attribute), 277 (`ask_smapi_model.services.skill_management.skill_management_380` method), 380

uniqueCustomers (`ask_smapi_model.v1.skill.metrics.metric.Metric` update_skill_manifest_v1() attribute), 522 (`ask_smapi_model.services.skill_management.skill_management_380` method), 380

UNKNOWN (`ask_sdk_model.interfaces.geolocation.access.Access` update_skill_manifest_v1() attribute), 206 (`ask_smapi_model.services.skill_management.skill_management_380` method), 380

UNKNOWN (`ask_smapi_model.v1.skill.manifest.flash_briefing_update_behavior.FlashBriefingUpdateBehavior` update_behavior_flash_briefing_update_frequency in attribute), 492 (`ask_sdk_model.er.dynamic.update_behavior`), 72

UNKNOWN_ERROR (`ask_sdk_model.services.ups.error_code.ErrorCode` UpdateInSkillProductRequest (class in attribute), 295 `ask_smapi_model.v1.isp.update_in_skill_product_request`), 410

UNKNOWN_VIEWPORT_PROFILE (`ask_sdk_core.utils.viewport.ViewportProfile` UpdateListItemRequest (class in attribute), 31 `ask_sdk_model.services.list_management.update_list_item_request`), 262

up (`ask_sdk_model.services.game_engine.input_event_action_type.InputEventActionType` UpdateListRequest (class in attribute), 245 `ask_sdk_model.services.list_management.update_list_request`), 262

UpChannelItems (class in UpdateListRequest (class in `ask_smapi_model.v1.skill.manifest.up_channel_items`), `ask_sdk_model.services.list_management.update_list_request`), 516

UPDATE (`ask_smapi_model.v1.skill.action.Action` UpdateRequest (class in attribute), 534 `ask_smapi_model.v1.skill.interaction_model.catalog.update_request`), 447

Update (`ask_smapi_model.v1.skill.manifest.request_name.RequestName` UpdateSkillWithPackageRequest (class in attribute), 507 `ask_smapi_model.v1.skill.update_skill_with_package_request`), 549

update_account_linking_info_v1() (`ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient` UPLOAD (`ask_smapi_model.v1.catalog.upload.ingestion_step_name.IngestionStepName` attribute), 384 `ask_smapi_model.v1.catalog.upload.upload_ingestion_step`), 386

update_annotations_for_nlu_annotation_sets_v1() (`ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient` method), 378 `ask_smapi_model.v1.catalog.upload.upload_ingestion_step`), 386

update_beta_test_v1() (`ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient` method), 378 `ask_sdk_model.v1.skill.upload_response`), 549

update_interaction_model_catalog_v1() 549

UploadStatus	(class in ask_smapl_model.v1.skill.validation_feature), ask_smapl_model.v1.catalog.upload.upload_status),	554	386
UpsServiceClient	(class in ask_smapl_model.v1.skill.validations.validations_api_request), ask_sdk_model.services.ups.ups_service_client),	532	296
US (ask_smapl_model.v1.isp.distribution_countries.DistributionCountries attribute),	ask_smapl_model.v1.skill.validations.validations_api_response), ask_smapl_model.v1.skill.validations.validations_api_response_result (class in ask_smapl_model.v1.skill.validations.validations_api_response_result),	533	396
US (ask_smapl_model.v1.skill.manifest.distribution_countries attribute),	ask_smapl_model.v1.skill.validations.validations_api_response_result (class in ask_smapl_model.v1.skill.validations.validations_api_response_result),	533	480
USD (ask_smapl_model.v1.isp.currency.Currency attribute),	ask_smapl_model.v1.skill.validations.validations_api_response_status (class in ask_smapl_model.v1.skill.validations.validations_api_response_status),	534	389
User (class in ask_sdk_model.user),	ask_smapl_model.v1.skill.interaction_model.value_catalog), ask_sdk_model.session_ended_reason.SessionEndedReason attribute),	467	332
user_id_keygen ()	(in module ask_sdk_s3.object_keygen),	52	52
user_id_partition_keygen ()	(in module ask_sdk_dynamodb.partition_keygen),	37	37
USER_INITIATED (ask_sdk_model.session_ended_reason.SessionEndedReason attribute),	ask_smapl_model.v1.skill.interaction_model.version.value_schema (class in ask_smapl_model.v1.skill.interaction_model.version.value_schema),	450	328
userEndedSessions (ask_smapl_model.v1.skill.metrics.metric.Metric attribute),	ask_smapl_model.v1.skill.interaction_model.version.value_schema_name (class in ask_smapl_model.v1.skill.interaction_model.version.value_schema_name),	451	522
UserEvent (class in ask_sdk_model.interfaces.alexa.presentation.apl.user_event),	ask_smapl_model.v1.skill.interaction_model.value_supplier (class in ask_smapl_model.v1.skill.interaction_model.value_supplier),	467	111
UserEvent (class in ask_sdk_model.interfaces.alexa.presentation.apl.user_event),	ask_smapl_model.v1.skill.interaction_model.value_supplier (class in ask_smapl_model.v1.skill.interaction_model.value_supplier),	467	124
utteranceText (ask_smapl_model.v1.skill.history.sort_fields_for_intent_request_type.SortFieldsForIntentRequestType attribute),	ask_sdk_model.slu.entityresolution.value_wrapper),	405	442
UY (ask_smapl_model.v1.isp.distribution_countries.DistributionCountries attribute),	ask_smapl_model.v1.isp.distribution_countries.DistributionCountries attribute),	397	397
UY (ask_smapl_model.v1.skill.manifest.distribution_countries attribute),	ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute),	480	480
UZ (ask_smapl_model.v1.isp.distribution_countries.DistributionCountries attribute),	ask_smapl_model.v1.isp.distribution_countries.DistributionCountries attribute),	397	397
UZ (ask_smapl_model.v1.skill.manifest.distribution_countries attribute),	ask_smapl_model.v1.skill.manifest.distribution_countries.DistributionCountries attribute),	481	480
V	Vendor (class in ask_smapl_model.v1.vendor_management.vendor),	555	
VA (ask_smapl_model.v1.isp.distribution_countries.DistributionCountries attribute),	Vendors (class in ask_smapl_model.v1.vendor_management.vendors),	555	397
VA (ask_smapl_model.v1.skill.manifest.distribution_countries attribute),	VerificationException, 44	44	480
ValidationDataTypes (class in ask_smapl_model.v1.skill.validation_data_types),	verifiers (django_ask_sdk.skill_adapter.SkillAdapter attribute),	49	550
ValidationDetails (class in ask_smapl_model.v1.skill.validation_details),	verify () (ask_sdk_webservice_support.verifier.AbstractVerifier method),	44	551
ValidationEndpoint (class in ask_smapl_model.v1.skill.validation_endpoint),	verify () (ask_sdk_webservice_support.verifier.RequestVerifier method),	44	553
ValidationFeature (class in ask_sdk_webservice_support.webservice_handler.WebserviceSkillHandler),	verify () (ask_sdk_webservice_support.verifier.TimestampVerifier method),	45	
	verify_request_and_dispatch ()		

method), 46

verify_signature (*django_ask_sdk.skill_adapter.SkillAdapter* attribute), 49

verify_timestamp (*django_ask_sdk.skill_adapter.SkillAdapter* attribute), 49

Version (class in *ask_smapi_model.v1.skill.manifest.version*), 516

VersionData (class in *ask_smapi_model.v1.skill.interaction_model.version.version_data*), 451

VersionItems (class in *ask_smapi_model.v1.skill.interaction_model.version.version_items*), 452

vertical (*ask_sdk_model.interfaces.alexa.presentation.apl.align.Align* attribute), 92

VG (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 397

VG (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 481

VI (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 397

VI (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 481

VIDEO (*ask_smapi_model.v1.isp.tax_information_category.TaxInformationCategory* attribute), 409

video (*ask_smapi_model.v1.skill.skill_summary_apis.SkillSummaryApis* attribute), 547

Video (class in *ask_sdk_model.interfaces.viewport.viewport_state_video*), 232

VideoApis (class in *ask_smapi_model.v1.skill.manifest.video_apis*), 517

VideoApisLocale (class in *ask_smapi_model.v1.skill.manifest.video_apis_locale*), 517

VideoAppInterface (class in *ask_sdk_model.interfaces.videoapp.video_app_interface*), 220

VideoAppInterface (class in *ask_smapi_model.v1.skill.manifest.video_app_interface*), 518

VideoCatalogInfo (class in *ask_smapi_model.v1.skill.manifest.video_catalog_info*), 518

VideoCountryInfo (class in *ask_smapi_model.v1.skill.manifest.video_country_info*), 519

VideoItem (class in *ask_sdk_model.interfaces.videoapp.video_item*), 221

VideoRegion (class in *ask_smapi_model.v1.skill.manifest.video_region*), 519

VideoSource (class in *ask_sdk_model.interfaces.alexa.presentation.apl.video_source*), 112

ViewportConfiguration (class in *ask_sdk_model.interfaces.viewport.apl.viewport_configuration*), 222

ViewportMode (class in *ask_smapi_model.v1.skill.manifest.viewport_mode*), 519

ViewportProfile (class in *ask_sdk_model.interfaces.viewport.apl.viewport_profile*), 223

ViewportSize (class in *ask_sdk_model.interfaces.viewport.size.viewport_size*), 225

ViewportSpecification (class in *ask_smapi_model.v1.skill.manifest.viewport_specification*), 519

ViewportState (class in *ask_sdk_model.interfaces.viewport.viewport_state*), 231

Video (class in *ask_sdk_model.interfaces.viewport.viewport_video*), 232

visible (*ask_sdk_model.interfaces.alexa.presentation.apl.align.Align* attribute), 80

VISIBLE (*ask_sdk_model.interfaces.display.back_button_behavior.BackButtonBehavior* attribute), 191

VN (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 397

VN (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 481

VU (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 481

W

Web (class in *ask_sdk_model.services.reminder_management.recurrence_day.RecurrenceDay* attribute), 283

WebserviceSkillHandler (class in *ask_sdk_webservice_support.webservice_handler*), 45

WEBVTT (*ask_sdk_model.interfaces.audioplayer.caption_type.CaptionType* attribute), 164

WEEKLY (*ask_sdk_model.services.reminder_management.recurrence_freq.RecurrenceFrequency* attribute), 283

WEEKLY (*ask_smapi_model.v1.skill.manifest.flash_briefing_update_frequency.FlashBriefingUpdateFrequency* attribute), 492

WF (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 397

WF (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 481

WF (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 481

Wildcard (*ask_smapi_model.v1.skill.manifest.ssl_certificate_type.SSLCertificateType* attribute), 516

with_traceback() (*ask_sdk_webservice_support.verify_certificate_model.v1.isp.distribution_countries.DistributionCountries* attribute), 44

withdraw_skill_from_certification_v1() (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 381

WithdrawRequest (class in *ask_smapi_model.v1.skill.withdraw_request*), 554

WS (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 397

WS (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 481

X

X_LARGE (*ask_sdk_model.interfaces.display.image_size.ImageSize* attribute), 198

X_SMALL (*ask_sdk_model.interfaces.display.image_size.ImageSize* attribute), 198

XHIGH (*ask_sdk_core.utils.viewport.Density* attribute), 30

XLARGE (*ask_sdk_core.utils.viewport.Size* attribute), 30

XLOW (*ask_sdk_core.utils.viewport.Density* attribute), 30

XSMALL (*ask_sdk_core.utils.viewport.Size* attribute), 30

XXHIGH (*ask_sdk_core.utils.viewport.Density* attribute), 30

Y

YE (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 397

YE (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 481

YEARLY (*ask_smapi_model.v1.isp.subscription_payment_frequency.SubscriptionPaymentFrequency* attribute), 408

YES (*ask_sdk_model.canfulfill.can_fulfill_intent_values.CanFulfillIntentValues* attribute), 67

YES (*ask_sdk_model.canfulfill.can_fulfill_slot_values.CanFulfillSlotValues* attribute), 68

YES (*ask_sdk_model.canfulfill.can_understand_slot_values.CanUnderstandSlotValues* attribute), 68

YT (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 397

YT (*ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries* attribute), 481

Z

ZA (*ask_smapi_model.v1.isp.distribution_countries.DistributionCountries* attribute), 397