# Alexa SKills Kit SDK for Python Documentation

Release 1.13.0

**Alexa Skills Kit** 

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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.

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# CHAPTER 1

Runtime

# 1.1 Request Dispatch Components

# 1.1.1 Abstract Classes

 $\begin{tabular}{ll} \textbf{class} & as k\_sdk\_runtime.dispatch. \textbf{AbstractRequestDispatcher} \\ Bases: object \end{tabular}$ 

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]

 ${\bf class} \ \, {\rm ask\_sdk\_runtime.dispatch\_components.request\_components.} \\ {\bf Bases:} \ \, {\rm typing.Generic} \\$ 

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]

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

 ${\bf class} \ \, {\rm ask\_sdk\_runtime.dispatch\_components.request\_components.} \\ {\bf AbstractRequestHandlerChain} \ \, {\bf Bases:} \ \, {\rm object} \\$ 

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 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

 ${\bf class} \ \, {\rm ask\_sdk\_runtime.dispatch\_components.request\_components.} \\ {\bf AbstractHandlerAdapter} \\ {\bf Bases:} \ \, {\rm object} \\$ 

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]

 ${\bf class} \ \, {\rm ask\_sdk\_runtime.dispatch\_components.exception\_components.} \\ {\bf AbstractExceptionMapper} \\ {\bf Bases:} \ \, {\rm typing.Generic} \\ \\$ 

Mapper to register custom Exception Handler instances.

The exception mapper is used by <code>ask\_sdk\_runtime.dispatch.GenericRequestDispatcher</code> 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]
```

```
\textbf{Raises} \ \textit{ask\_sdk\_runtime.exceptions.DispatchException}
```

class ask\_sdk\_runtime.dispatch\_components.request\_components.GenericRequestHandlerChain(req

reque

> respo

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.
```

Implementation of AbstractRequestMapper that registers RequestHandlerChain.

The class accepts request handler chains of type <code>GenericRequestHandlerChain</code> only. The <code>get\_request\_handler\_chain</code> method returns the <code>GenericRequestHandlerChain</code> 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]

#### 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(except
                      ask sdk runtime.dispatch components.exception components.
    Bases:
    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.AbstractExceptionHandlerinstances.
```

**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. Generic Request Dispatcher 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,
                                                                                         re-
                                                            sponse interceptors=None,
                                                            tion 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 (Generic Request Mapper)) - 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.

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#### 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

# ${\tt class} \ {\tt ask\_sdk\_runtime.skill\_builder.AbstractSkillBuilder}$

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

# $\verb"add_global_response_interceptor" (\textit{response\_interceptor})$

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

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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 <code>ask\_sdk\_runtime.dispatch\_components.request\_components.AbstractRequestInterceptor class.</code>

**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 <code>ask\_sdk\_runtime.dispatch\_components.request\_components.</code> 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

```
\textbf{exception} \  \, \texttt{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.

# $\textbf{exception} \ \, \text{ask\_sdk\_runtime.exceptions.} \\ \textbf{SerializationException} \\$

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.

# $\textbf{exception} \ \, \textbf{ask\_sdk\_runtime.exceptions.} \\ \textbf{RuntimeConfigException}$

 $\textbf{Bases: } \textit{ask\_sdk\_runtime.exceptions.AskSdkException}$ 

Base exception class for Runtime Configuration Builder exceptions.

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# CHAPTER 2

Core

# 2.1 Handler Input

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

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]

```
 \begin{array}{ll} \textbf{class} & \text{ask\_sdk\_core.dispatch\_components.request\_components.} \\ \textbf{Bases:} & \text{ask\_sdk\_runtime.dispatch\_components.request\_components.} \\ \textbf{AbstractRequestInterceptor} \end{array}
```

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

 $\begin{tabular}{lllllllllllclcl} {\bf class} & ask\_sdk\_core.dispatch\_components.request\_components. {\bf AbstractResponseInterceptor} \\ & Bases: & ask\_sdk\_runtime.dispatch\_components.request\_components. \\ \end{tabular}$ 

*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

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, ondary_text=None, ter-
tiary_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, ondary_text=None, ter-
tiary_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, pri-
mary_text_type='PlainText',
secondary_text_type='PlainText',
tertiary_text=None, ter-
tiary_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 Plain-Text 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

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 describlized 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.

 $\verb|dispatch_components.request_components.AbstractResponseInterceptor||$ 

– 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 <code>ask\_sdk\_runtime.dispatch\_components.exception\_components.</code> 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 describined 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 <code>ask\_sdk\_runtime.dispatch\_components.request\_components.AbstractRequestHandler class.</code>

**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

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

# ${\tt save\_persistent\_attributes}\;(\,)$

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

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# 2.7 SDK Exceptions

# $\textbf{exception} \ \, \textbf{ask\_sdk\_core.exceptions.AttributesManagerException}$

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.TemplateRendererException

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)

Descrializes 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 describized 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 <code>ask\_sdk\_core.handler\_input.HandlerInput</code>, to check if the input request type is the passed in request type.

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**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.
                     no
                         viewport
                                    value
                                            in
                                                 request_envelope.context,
                                                                                an
                                                                                      ViewportPro-
                                                                          then
    file.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.
```

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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 <code>ask\_sdk\_model</code>. <code>intent\_request.IntentRequest</code>. If the input is not an IntentRequest, a <code>TypeError</code> 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 <code>ask\_sdk\_core.handler\_input.HandlerInput.</code>

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 <code>ask\_sdk\_model.slot.Slot</code> from the input intent request for the given <code>slot\_name</code>. 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 <code>ask\_sdk\_model.intent\_request.IntentRequest</code>, a <code>TypeError</code> 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

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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 <code>ask\_sdk\_model.supported\_interfaces</code>. <code>SupportedInterfaces</code> object instance listing each interface that the device supports. For example, if <code>supported\_interfaces</code> includes <code>audio\_player</code>, then you know that the device supports streaming audio using the AudioPlayer interface. More information on <code>supportedInterfaces</code> can be found here: <a href="https://developer.amazon.com/docs/custom-skills/request-and-response-json-reference.html#system-object">https://developer.amazon.com/docs/custom-skills/request-and-response-json-reference.html#system-object</a>

**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 <code>ask\_sdk\_model.session.Session</code> is only included on all standard requests except <code>AudioPlayer</code>, <code>VideoApp</code> and <code>PlaybackController</code> 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]

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## DynamoDb Persistence Adapter

## 3.1 DynamoDb Persistence Adapter

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

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# CHAPTER 4

## Standard

## 4.1 Standard Skill Builder

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

Standard Skill Builder is an implementation of <code>ask\_sdk\_core.skill\_builder.SkillBuilder</code> with coupling of DynamoDb Persistence Adapter settings and a Default Api Client added to the <code>ask\_sdk\_core.skill.Skill</code>.

#### **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.
                                                                    (ask_sdk_runtime.
        Parameters response interceptor
            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.
           \verb|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.
                                           (ask sdk runtime.dispatch components.
        Parameters request handler
            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 <code>ask\_sdk\_runtime.dispatch\_components.exception\_components.</code> 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 <code>ask\_sdk\_runtime.dispatch\_components.request\_components.AbstractRequestInterceptor class.</code>

**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 describined 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 <code>ask\_sdk\_runtime.dispatch\_components.request\_components.AbstractRequestHandler class.</code>

**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.

## ${\tt skill\_configuration}$

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

Bases: ask\_sdk\_webservice\_support.verifier.AbstractVerifier

Verifier that performs request signature verification.

This is a concrete implementation of <code>AbstractVerifier</code> 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: <a href="https://developer.amazon.com/docs/custom-skills/host-a-custom-skill-as-a-web-service.html#checking-the-signature-of-the-request">https://developer.amazon.com/docs/custom-skills/host-a-custom-skill-as-a-web-service.html#checking-the-signature-of-the-request</a>

The constructor takes the header key names for retrieving Signature Certificate Chain and Signature. They are defaulted to the header names present in the <code>ask\_sdk\_webservice\_support.verifier\_constants</code>. 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

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 <code>ask\_sdk\_model.request\_envelope.RequestEnvelope</code> 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

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 <code>dispatch\_request()</code> function can be used to map the input request to the skill invocation. The <code>register()</code> function can also be used alternatively, to register the <code>dispatch\_request()</code> 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 <code>VERIFY\\_SIGNATURE\\_APP\\_CONFIG</code> and <code>VERIFY\_TIMESTAMP\_APP\_CONFIG</code> app configuration values to False.

An instance of the extension is added to the application extensions mapping, under the key <code>EXTENSION\_NAME</code>. 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 <code>EXTENSION\_NAME</code> 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 <code>True</code> defaults for <code>VERIFY\_SIGNATURE\_APP\_CONFIG</code> and <code>VERIFY\_TIMESTAMP\_APP\_CONFIG</code> configurations. It adds the skill id: self instance mapping to the application extensions, and creates a <code>ask\_sdk\_webservice\_support.webservice\_handler</code>. 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

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

The class constructor takes a <code>ask\_sdk\_core.skill.CustomSkill</code> instance, an optional verify\_request boolean, an optional verify\_timestamp boolean and an optional list of <code>ask\_sdk\_webservice\_support.verifier.AbstractVerifier</code> 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 <code>ask\_sdk\_webservice\_support.verifier.RequestVerifier</code> and <code>ask\_sdk\_webservice\_support.verifier.TimestampVerifier</code> instances are added to the skill verifier list. To disable this, set the <code>verify\_request</code> and <code>verify\_timestamp</code> input arguments to <code>False</code> respectively.

For example, if you developed a skill using an instance of <code>ask\_sdk\_core.skill\_builder</code>. <code>SkillBuilder</code> or it's 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)

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```
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', 'trac
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

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**

Return type None

- 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.

```
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

# CHAPTER 7

**SMAPI** 

## 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()

Bases: ask\_smapi\_sdk.smapi\_builder.SmapiClientBuilder

 $Standard Smapi Client Builder class used to generate \verb| ask_smapi_model.services.| skill_management.SkillManagementServiceClient object with default Serializer and Api Client implementations.$ 

### **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

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]]

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## 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

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

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', 'refres'
deserialized_types = {'client_id': 'str', 'client_secret': 'str', 'refresh_token':
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

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'
deserialized_types = {'access_token': 'str', 'expires_in': 'int', 'scope': '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,
                                                                                      au-
                                                               thentication_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
                                        (ask_sdk_model_runtime.api_configuration.
              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'
```

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```
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: <code>ask\_sdk\_model\_runtime.exceptions.ApiClientException</code>

## 8.4 ask\_sdk\_model\_runtime.api\_client\_message module

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

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

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

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

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

```
\textbf{class} \  \, \texttt{ask\_sdk\_model\_runtime.authentication\_configuration.AuthenticationConfiguration} (\textit{client\_identificationConfiguration}) \\ client \  \, \textit{startingConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfigurationConfiguratio
```

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.

refresh\_to

## 8.10 ask sdk model runtime.base service client module

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

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, sta-
tus_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</pre>
```

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**

deserialize (payload, obj\_type)

- payload (str) data to be describlized.
- obj\_type (Union[object, str]) resolved class name for descrialized object

Returns descrialized 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

# CHAPTER 9

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

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)-
```

((optional) dict(str, ask\_sdk\_model.canfulfill. • slots 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()
```

## ask\_sdk\_model.canfulfill.can\_fulfill\_intent\_request module

Returns the string representation of the model

```
class ask_sdk_model.canfulfill.can_fulfill_intent_request.CanFulfillIntentRequest(request_id=
```

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

timestamp=None.

cale=None,

log state=N

tent=None)

lo-

di-

in-

```
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

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

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

#### **Parameters**

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### ask\_sdk\_model.canfulfill.can\_fulfill\_slot\_values module

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

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_inten
    supports_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) -
                                    ((optional) list[ask_sdk_model.er.dynamic.
               entity_list_item.EntityListItem])-
    attribute_map = {'object_type': 'type', 'types': 'types', 'update_behavior': 'updat
    deserialized_types = {'object_type': 'str', 'types': 'list[ask_sdk_model.er.dynamic.
    supports_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_i
    deserialized_types = {'object_type': 'str', 'slot_to_elicit': '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
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_an
supports_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

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
supports_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,
    Bases: object
    A container object with value and synomyms 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
```

onyms=None)

**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

```
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

tamp=Non locale=None body=Non event\_crea

event publ

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.PermissionAcceptedReque

Bases: ask\_sdk\_model.request.Request

- request\_id ((optional) str) Represents the unique identifier for the specific
- 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.

```
((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()
```

### ask\_sdk\_model.events.skillevents.permission\_changed\_request module

Returns the string representation of the model

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.
                                 ((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.ProactiveSubscr
    Bases: object
                                                 ((optional) list[ask_sdk_model.
        Parameters subscriptions
            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()
```

### ask sdk model.events.skillevents.proactive subscription changed request module

class ask\_sdk\_model.events.skillevents.proactive\_subscription\_changed\_request.ProactiveSubscription\_changed\_

```
Bases: ask_sdk_model.request.Request
```

Returns the string representation of the model

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', 'reques
deserialized_types = {'body': 'ask_sdk_model.events.skillevents.proactive_subscriptio
supports_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.ProactiveSubscriptionEr
Bases: object
Parameters event_name((optional) str)-
```

```
deserialized_types = {'event_name': 'str'}
supports_multiple_types = False
to_dict()
```

attribute\_map = {'event\_name': 'eventName'}

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

cale=None event\_crea event\_publ

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

cale=None,
event\_creation

event\_publish

Bases: ask sdk model.request.Request

Returns the model properties as a dict

- 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()
```

```
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

supports\_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

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.AnimateItemCom

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.

- **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)-

```
((optional) list[ask_sdk_model.interfaces.alexa.
                presentation.apl.animated property.AnimatedProperty/) -
                array of animated properties.
    attribute_map = {'component_id': 'componentId', 'delay': 'delay', 'description': 'd
    deserialized types = {'component id': 'str', 'delay': 'int', 'description':
    supports_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.animate_item_repeat mode module
class ask_sdk_model.interfaces.alexa.presentation.apl.animate_item_repeat_mode.AnimateItem
    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.alexa.presentation.apl.animated_opacity_property module
class ask_sdk_model.interfaces.alexa.presentation.apl.animated_opacity_property.AnimatedOpacity_property.AnimatedOpacity_property.AnimatedOpacity_property.
              ask_sdk_model.interfaces.alexa.presentation.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':
                                                                                                     'floa
    supports_multiple_types = False
    to_dict()
         Returns the model properties as a dict
         Returns the string representation of the model
```

#### ask sdk model.interfaces.alexa.presentation.apl.animated property module

opacity: ask\_sdk\_model.interfaces.alexa.presentation.apl.

```
class ask_sdk_model.interfaces.alexa.presentation.apl.animated_property.AnimatedProperty(ob
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.

```
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.presentat
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.Animated

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

AnimatedProperty

- **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')
```

```
supports_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

ponen cou duratior

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

```
 \begin{array}{c} \textbf{class} \  \, \text{ask\_sdk\_model.interfaces.alexa.presentation.apl.command.Command} \, (object\_type=None, \\ de-\\ lay=None, \\ de-\\ scrip-\\ tion=None, \\ when=None) \end{array}
```

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

- **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,

 $\label{lem:sequential:ask_sdk_model.interfaces.alexa.presentation.apl. sequential\_command. Sequential Command,$ 

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,
    Set Value: 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': 'ty
    deserialized_types = {'delay': 'int', 'description': 'str', 'object_type': 'str', '
    discriminator_value_class_map = {'AnimateItem': 'ask_sdk_model.interfaces.alexa.prese
    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
                                                                                               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

```
\textbf{class} \  \, \texttt{ask\_sdk\_model.interfaces.alexa.presentation.apl.} component\_visible\_on\_screen. \textbf{Componentation.apl.} componentation. \textbf{Componenta
```

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
deserialized_types = {'children': 'list[ask_sdk_model.interfaces.alexa.presentation.ag
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
```

## ask\_sdk\_model.interfaces.alexa.presentation.apl.component\_visible\_on\_screen\_list\_item\_tag module

```
{\bf class} \  \, {\rm ask\_sdk\_model.interfaces.alexa.presentation.apl.component\_visible\_on\_screen\_list\_iterbases: 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

Returns the string representation of the model

### ask\_sdk\_model.interfaces.alexa.presentation.apl.component\_visible\_on\_screen\_list\_tag module

 $\textbf{class} \ \, \texttt{ask\_sdk\_model.interfaces.alexa.presentation.apl.} component\_visible\_on\_screen\_list\_tagglesself. \\$ 

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': '
deserialized_types = {'highest_index_seen': 'int', 'highest_ordinal_seen': 'int', '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.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.
- ((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': 'allowAdjustSeekPositionBack
deserialized_types = {'allow_adjust_seek_position_backwards': 'bool', 'allow_adjust_s
supports_multiple_types = False
to_dict()
   Returns the model properties as a dict
```

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
    Bases: enum. Enum
    Media player stage posible 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 mod-ule

class ask\_sdk\_model.interfaces.alexa.presentation.apl.component\_visible\_on\_screen\_pager\_tag

Bases: object

A collection of items that are displayed one at a time.

Returns the string representation of the model

#### **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()
```

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\_scrollab.

Bases: 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
class ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_scrollab.
    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.Com
```

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.alexa. presentation.apl.component\_visible\_on\_screen\_list\_tag. ComponentVisibleOnScreenListTag) An ordered list of items.
- list\_item ((optional) ask\_sdk\_model.interfaces.alexa. presentation.apl.component\_visible\_on\_screen\_list\_item\_tag. ComponentVisibleOnScreenListItemTag) An element in a sequence.
- media ((optional) ask\_sdk\_model.interfaces.alexa. presentation.apl.component\_visible\_on\_screen\_media\_tag. ComponentVisibleOnScreenMediaTag) Media player
- ordinal ((optional) int) A visibly numbered element.
- pager ((optional) ask\_sdk\_model.interfaces.alexa. presentation.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.alexa. presentation.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.alexa. presentation.apl.component\_visible\_on\_screen\_viewport\_tag. ComponentVisibleOnScreenViewportTag) The entire screen in which a document is rendered.

```
attribute_map = {'checked': 'checked', 'clickable': 'clickable', 'disabled': 'disabled': 'disabled': '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.alexa.presentation.apl.component\_visible\_on\_screen\_viewport\_tag module

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.ControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaControlMediaCo
```

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()
```

ask sdk model.interfaces.alexa.presentation.apl.execute commands directive module

```
\textbf{class} \texttt{ ask\_sdk\_model.interfaces.alexa.presentation.apl.execute\_commands\_directive.} \textbf{ExecuteCommands\_directive.}
```

Bases: ask sdk model.directive.Directive

Returns the string representation of the model

Alexa.Presentation.APL.ExecuteCommands directive used to send APL commands to a device.

#### **Parameters**

- commands ((optional) list[ask\_sdk\_model.interfaces.alexa. presentation.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.alexa.presentation.ag
supports_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.highlight\_mode module

```
\begin{tabular}{ll} \textbf{class} & ask\_sdk\_model.interfaces.alexa.presentation.apl.highlight\_mode.HighlightMode\\ & Bases: enum.Enum \end{tabular}
```

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.alexa.presentation.apl.idle command module

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':
    deserialized_types = {'delay': 'int', 'description': '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.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.MoveTransform
             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=1
                                                                                                        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 exe-
                cuting; 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
                                ((optional) list[ask_sdk_model.interfaces.alexa.
                presentation.apl.command.CommandJ) - Commands to execute if the URL fails
                to open
     attribute_map = {'delay': 'delay', 'description': 'description', 'object_type':
     deserialized_types = {'delay': 'int', 'description': '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.alexa.presentation.apl.parallel_command module
class ask_sdk_model.interfaces.alexa.presentation.apl.parallel_command.ParallelCommand (delay)
                                                                                                          de-
                                                                                                          scrip
```

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Bases: ask\_sdk\_model.interfaces.alexa.presentation.apl.command.Command

tion= when commana 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
description': 'descript
description': 'list[ask_sdk_model.interfaces.alexa.presentation.ag
supports_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

```
\textbf{class} \  \, \texttt{ask\_sdk\_model.interfaces.alexa.presentation.apl.play\_media\_command.PlayMediaCommand} \  \, (alexa.presentation.apl.play\_media\_command.playMediaCommand) \  \, (alexa.presentation.apl.play\_media\_command.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaCommand.playMediaComman
```

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).

- **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.alexa. presentation.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.alexa. presentation.apl.video_source.VideoSource]) - The media source
```

```
attribute_map = {'audio_track': 'audioTrack', 'component_id': 'componentId', 'delay'
deserialized_types = {'audio_track': '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.apl.position module

```
class ask_sdk_model.interfaces.alexa.presentation.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.alexa.presentation.apl.render\_document\_directive module

class ask\_sdk\_model.interfaces.alexa.presentation.apl.render\_document\_directive.RenderDocument\_d

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&gt;'. 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.RenderedDocument

Bases: object

to str()

Provides context for any APL content shown on screen.

Returns the string representation of the model

- **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
```

### ask sdk model.interfaces.alexa.presentation.apl.rotate transform property module

```
class ask_sdk_model.interfaces.alexa.presentation.apl.rotate_transform_property.RotateTrans
            ask_sdk_model.interfaces.alexa.presentation.apl.transform_property.
     TransformProperty
         Parameters rotate (float) - Rotation angle, in degrees. Positive angles rotate in the clockwise
    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
    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.ScaleTransfo
            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 (\textit{delay=None de-scrip-tion=None when=None dis-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip-tion-scrip
```

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': 'description': 'description': '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
```

tance=Non component\_id=N

#### 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()
```

#### ask sdk model.interfaces.alexa.presentation.apl.sequential command module

Returns the string representation of the model

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.alexa. presentation.apl.command.Command]) An ordered list of commands to execute if this sequence is prematurely terminated.
- commands ((optional) list[ask\_sdk\_model.interfaces.alexa. presentation.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. alexa.presentation.apl.command.Command]) An ordered list of commands to execute after the normal commands and the catch commands.

```
attribute_map = {'catch': 'catch', 'commands': 'commands', 'delay': 'delay', 'descr
deserialized_types = {'catch': 'list[ask_sdk_model.interfaces.alexa.presentation.apl.
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to str()
```

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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(delass)
                                                                                                  scr
                                                                                                  tion
                                                                                                  whe
```

con ponen

description=1 when= component\_i position=1 value=

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':
deserialized_types = {'component_id': 'str', 'delay': 'int', 'description':
supports_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=
```

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.alexa. presentation.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': 'description': 'str', 'delay': 'int', 'description': 'str', supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
```

# ask sdk model.interfaces.alexa.presentation.apl.set state command module

Returns the string representation of the model

con ponen stat valt

Bases: ask\_sdk\_model.interfaces.alexa.presentation.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.alexa. presentation.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': 'c
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

```
{\bf class} \  \, {\rm ask\_sdk\_model.interfaces.alexa.presentation.apl.set\_value\_command.SetValueCommand} \, (delease a set\_value\_command.SetValueCommand (delease a set\_value\_command (delease
```

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': 'description': 'description': '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

scri tion who con ponen object vali

# ask\_sdk\_model.interfaces.alexa.presentation.apl.skew\_transform\_property module

```
class ask_sdk_model.interfaces.alexa.presentation.apl.skew_transform_property.SkewTransform
```

 $\begin{tabular}{ll} \textbf{Bases:} & ask\_sdk\_model.interfaces.alexa.presentation.apl.transform\_property. \\ & TransformProperty \end{tabular}$ 

#### **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.alexa. presentation.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.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.speak list command module

```
\textbf{class} \  \, \texttt{ask\_sdk\_model.interfaces.alexa.presentation.apl.speak\_list\_command.SpeakListCommand} \  \, (a.e., a.e., a.e.,
```

Bases: ask\_sdk\_model.interfaces.alexa.presentation.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.

- **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 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

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

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

# ask\_sdk\_model.interfaces.alexa.presentation.aplt.auto\_page\_command module

```
\textbf{class} \  \, \text{ask\_sdk\_model.interfaces.alexa.presentation.aplt.auto\_page\_command.} \\ \textbf{AutoPageCommand} \  \, (\textit{detalexa.presentation.aplt.auto\_page\_command.} \\ \textbf{detalexa.presentation.aplt.auto\_page\_command.} \\ \textbf{detalexa.presentation.aplt.auto\_page\_comman
```

sc tic

po ne co di ra

```
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

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.

 $\label{lem:set_alexa.presentation.aplt.set_value\_command.} Set Value Command. \\$  Set Value Command.

ask\_sdk\_model.interfaces.alexa.presentation.aplt.idle\_command.IdleCommand,

Idle:

```
AutoPage: ask_sdk_model.interfaces.alexa.presentation.aplt.
    auto_page_command.AutoPageCommand,
    Scroll: ask sdk model.interfaces.alexa.presentation.aplt.scroll command.
    ScrollCommand.
    SendEvent: ask_sdk_model.interfaces.alexa.presentation.aplt.
    send_event_command.SendEventCommand,
    Parallel: ask sdk model.interfaces.alexa.presentation.aplt.parallel command.
    ParallelCommand,
    SetPage: ask_sdk_model.interfaces.alexa.presentation.aplt.set_page_command.
    SetPageCommand,
    Sequential: ask_sdk_model.interfaces.alexa.presentation.aplt.
    sequential_command.SequentialCommand
    attribute_map = {'delay': 'delay', 'description': 'description', 'object_type': 'ty
    deserialized_types = {'delay': 'int', 'description': 'str', 'object_type': 'str', '
    discriminator_value_class_map = {'AutoPage': 'ask_sdk_model.interfaces.alexa.presenta
    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.aplt.execute_commands_directive module
class ask_sdk_model.interfaces.alexa.presentation.aplt.execute_commands_directive.ExecuteCommands_directive.
    Bases: ask_sdk_model.directive.Directive
    Alexa.Presentation.APLT.ExecuteCommands directive used to send APL-T commands to a device.
        Parameters
```

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presentation.aplt.command.Command]) - List of Command instances

((optional) list[ask\_sdk\_model.interfaces.alexa.

• **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.age
supports_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

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.

- **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
descrialized_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
```

who con mai

# ask sdk model.interfaces.alexa.presentation.aplt.parallel command module

```
{\bf class} \  \, {\rm ask\_sdk\_model.interfaces.alexa.presentation.aplt.parallel\_command.ParallelCommand} \  \, {\it descent} \  \,
```

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.ag
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
```

# ask\_sdk\_model.interfaces.alexa.presentation.aplt.position module

Returns the string representation of the model

Returns the model properties as a dict

```
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()
```

```
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&gt;'. 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()
```

# ask\_sdk\_model.interfaces.alexa.presentation.aplt.runtime module

Returns the string representation of the model

```
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
```

description=Non screen\_lo when=No distance=No compo $nent_id=$ 

```
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=No
```

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':
deserialized_types = {'component_id': 'str', 'delay': 'int', 'description':
supports_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

 $\textbf{class} \ \, \texttt{ask\_sdk\_model.interfaces.alexa.presentation.aplt.send\_event\_command.SendEventCommand.sendE$ 

 $\textbf{Bases:} \ ask\_sdk\_model.interfaces.alexa.presentation.aplt.command.Command$ 

The SendEvent command allows the APL author to generate and send an event to Alexa.

- **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': 'delay':
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

 $\textbf{class} \ \, \texttt{ask\_sdk\_model.interfaces.alexa.presentation.aplt.sequential\_command.} \\ \textbf{SequentialCommand.sequentialCommand.sequential} \\ \textbf{command.sequential} \\ \textbf{comman$ 

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
    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
```

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.

```
'componentId', 'delay': 'delay', 'description':
attribute map = {'component id':
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
```

descrip tion= scree when component\_ position= value

po

ol je ve

# ask sdk model.interfaces.alexa.presentation.aplt.set value command module

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': 'description': 'description': '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

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':
supports_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

#### ask sdk model.interfaces.alexa.presentation.html.configuration module

```
class ask_sdk_model.interfaces.alexa.presentation.html.configuration.Configuration(timeout_in_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.HandleMessage_directive.
```

Bases: ask\_sdk\_model.directive.Directive

The HandleMessage directive sends a message to a skill's web application that runs on the de-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.alexa. presentation.html.transformer.Transformer]) - An array of objects for performing text-to-speech transformations with message data

```
attribute_map = {'message': 'message', 'object_type': 'type', 'transformers':
deserialized_types = {'message':
                                     'object', 'object_type': 'str', 'transformers':
supports_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.message request module

```
class ask_sdk_model.interfaces.alexa.presentation.html.message_request.MessageRequest (request
```

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.

```
'type', '
attribute map = {'locale': 'locale', 'message': 'message', 'object type':
deserialized_types = {'locale':
                                'str', 'message': 'object', 'object_type':
                                                                              'str', '
supports_multiple_types = False
```

timestamp= locale=1 message=

```
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

```
 \textbf{class} \  \, \textbf{ask\_sdk\_model.interfaces.alexa.presentation.html.start\_directive.\textbf{StartDirective}} \  \, \begin{array}{c} \textit{data=1} \\ \textit{trans-} \\ \textit{form-} \\ \textit{ers=N} \\ \textit{re-} \end{array}
```

quest=
configuration=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':
          deserialized_types = {'configuration': 'ask_sdk_model.interfaces.alexa.presentation.h
          supports 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=Non
                                                                                                                                                                                                           uri=None,
                                                                                                                                                                                                           head-
                                                                                                                                                                                                           ers=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
          supports_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.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestMethod.StartRequestM
          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

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', 'transforme'
deserialized_types = {'input_path': 'str', 'output_name': 'str', 'transformer': 'ast
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
```

# ask\_sdk\_model.interfaces.alexa.presentation.html.transformer\_type module

Returns the string representation of the model

```
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

 $\textbf{class} \ \, \texttt{ask\_sdk\_model.interfaces.amazonpay.model.request.authorize\_attributes.} \\ \textbf{AuthorizeAttributes.} \\ \textbf{Au$ 

```
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.

- 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** ( <code>optional</code>) <code>str</code>) 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 &quot;AMZ\* &lt;soft descriptor specified here&gt;&quot;. Default is &quot;AMZ\*&lt;SELLER\_NAME&gt; amzn.com/ pmts WA&quot;. 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_refere
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. Authorize Attributes,
    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.Billing

```
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
```

Returns the string representation of the model

to str()

#### ask\_sdk\_model.interfaces.amazonpay.model.request.billing\_agreement\_type module

class ask\_sdk\_model.interfaces.amazonpay.model.request.billing\_agreement\_type.BillingAgreement
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

```
\textbf{class} \  \, \text{ask\_sdk\_model.interfaces.amazonpay.model.request.payment\_action.PaymentAction} \\ Bases: \texttt{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

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.ProviderAttributes
```

```
Bases: ask\_sdk\_model.interfaces.amazonpay.model.request.\\base\_amazon\_pay\_entity.BaseAmazonPayEntity
```

This is required only for Ecommerce provider (Solution provider) use cases.

```
• 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_mo
          supports_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.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provider_credit.provide
                                                                                                                                                                                                                credit=
                                                                                                                                                                                                                ver-
                                                                                                                                                                                                                sion=1
                                                                      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':
                                                                                                                                                                                                         'provid
          deserialized_types = {'credit': 'ask_sdk_model.interfaces.amazonpay.model.request.pri
          supports_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.
```

9.1. Subpackages 135

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.SellerOrder
```

```
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 "SellerOrder-Attributes" section of the Amazon Pay API reference guide for details about this object.

- **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()
```

# ask sdk model.interfaces.amazonpay.model.response package

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.am	azonpay.mod	lel.respons	e.authorization	details module
-----	-----	---------------------	-------------	-------------	-----------------	----------------

 $\textbf{class} \ \, \texttt{ask\_sdk\_model.interfaces.amazonpay.model.response.authorization\_details.} \\ \textbf{Authorization\_details.Authorization\_details.} \\ \textbf{Authorization\_details.authorization\_details.authorization\_details.} \\ \textbf{Authorization\_details.authorization\_deta$ 

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.

- 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_ad'
deserialized_types = {'amazon_authorization_id': 'str', 'authorization_amount': 'ask
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
```

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.Authorization
```

```
 \begin{array}{ll} \textbf{Bases:} & \textit{ask\_sdk\_model.interfaces.amazonpay.model.v1.authorization\_status.} \\ \textbf{AuthorizationStatus} \end{array}
```

Indicates the current status of an Authorization object, a Capture object, or a Refund object.

# **Parameters**

to str()

- 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
```

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**

to str()

- 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.vl.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.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':
deserialized_types = {'billing_address': 'ask_sdk_model.interfaces.amazonpay.model.re
```

```
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
    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,
```

pany\_name=No address\_line1=No ad $dress\_line2=No$ dress\_line3=No city=None, district or county state\_or\_region postal\_code=N country\_code=None

phone=None)

'billi

 $Bases: ask\_sdk\_model.interfaces.amazonpay.model.v1.destination.Destination\\$ 

# **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 (AddressLine 1, AddressLine 2, or AddressLine 3) is required.
- address\_line3 ((optional) str) The third line of the address. At least one AddressLine (AddressLine 1, AddressLine 2, or AddressLine 3) 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', '
    deserialized_types = {'address_line1': 'str', 'address_line2': 'str', 'address_line3
    supports_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,
                                                                                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

 $\textbf{class} \ \, \texttt{ask\_sdk\_model.interfaces.amazonpay.model.v1.authorization\_details.} \\ \textbf{AuthorizationDetails.} \\ \textbf{authorizatio$ 

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_ad'
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 desciption corresponding to the reason code

Returns the string representation of the model

• 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()
```

# ask\_sdk\_model.interfaces.amazonpay.model.v1.authorize\_attributes module

 $\textbf{class} \ \, \texttt{ask\_sdk\_model.interfaces.amazonpay.model.v1.authorize\_attributes.} \\ \textbf{AuthorizeAttributes} \\ \textbf{ask\_sdk\_model.interfaces.amazonpay.model.v1.authorize\_attributes.} \\ \textbf{ask\_sdk\_model.interfaces.amazonpay.model.v1.authorize\_attributes.} \\ \textbf{ask\_sdk\_model.interfaces.amazonpay.model.v1.authorize\_attributes.} \\ \textbf{ask\_sdk\_model.interfaces.amazonpay.model.v2.authorize\_attributes.} \\ \textbf{ask\_sdk\_model.interfaces.amazonpay.model.interfaces.amazonpay.model.v2.authorize\_attributes.} \\ \textbf{ask\_sdk\_model.interfaces.amazonpay.model.interfaces.amaz$ 

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&gt;&quot;. Default is &quot;AMZ\*&lt;SELLER\_NAME&gt; amzn.com/ pmts WA&quot;. Maximum length can be 16 characters.

attribute\_map = {'authorization\_amount': 'authorizationAmount', 'authorization\_refere

```
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.

• 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

 $\textbf{class} \ \, \texttt{ask\_sdk\_model.interfaces.amazonpay.model.v1.billing\_agreement\_details.BillingA$ 

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_sta
deserialized_types = {'billing_agreement_id': 'str', 'billing_agreement_status': 'as
supports_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.BillingAgreement
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

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', '
deserialized_types = {'address_line1': 'str', 'address_line2': 'str', 'address_line3
supports_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

• 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

```
 \begin{array}{c} \textbf{class} \  \, \text{ask\_sdk\_model.interfaces.amazonpay.model.v1.price.} \textbf{Price} \, (\textit{amount=None}, \\ \textit{currency\_code=None}) \end{array}
```

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(properties)
```

This is required only for Ecommerce provider (Solution provider) use cases.

### **Parameters**

Bases: object

• provider\_id ((optional) str) - Solution provider ID.

provider credit list

```
interfaces.amazonpay.model.v1.provider_credit.
               ProviderCredit /) - List of provider credit.
    attribute_map = {'provider_credit_list': 'providerCreditList', 'provider_id': 'provi
    deserialized types = { 'provider credit list': 'list[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.amazonpay.model.v1.provider_credit module
class ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit.ProviderCredit(provider_id=h
                                                                                             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.Pr
    supports_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
```

((optional) list[ask\_sdk\_model.

# ask\_sdk\_model.interfaces.amazonpay.model.v1.seller\_billing\_agreement\_attributes module

 $\textbf{class} \ \, \texttt{ask\_sdk\_model.interfaces.amazonpay.model.v1.seller\_billing\_agreement\_attributes.} \\ \textbf{Seller\_billing\_agreement\_attributes.} \\ \textbf{Seller\_bil$ 

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()
```

# ask\_sdk\_model.interfaces.amazonpay.model.v1.seller\_order\_attributes module

Returns the string representation of the model

class ask sdk model.interfaces.amazonpay.model.v1.seller order attributes.SellerOrderAttrib

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

 $\textbf{class} \ \, \texttt{ask\_sdk\_model.interfaces.amazonpay.request.charge\_amazon\_pay\_request.ChargeAmazonPay} .$ 

```
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

 $\textbf{class} \ \, \texttt{ask\_sdk\_model.interfaces.amazonpay.request.setup\_amazon\_pay\_request.SetupAmazonPayRecords} \\ \text{ask\_sdk\_model.interfaces.amazonpay.request.setup\_amazon\_pay\_request.} \\ \text{ask\_sdk\_model.interfaces.amazonpay.request.setup\_amazon\_pay\_request.} \\ \text{ask\_sdk\_model.interfaces.amazonpay.request.setup\_amazon\_pay\_request.} \\ \text{ask\_sdk\_model.interfaces.amazonpay.request.setup\_amazon\_pay\_request.} \\ \text{ask\_sdk\_model.interfaces.amazonpay.request.setup\_amazon\_pay\_request.} \\ \text{ask\_sdk\_model.interfaces.amazonpay.request.} \\ \text{ask\_sdk\_model.interfaces.amazonpay.request.} \\ \text{ask\_sdk\_model.interfaces.amazonpay.request.} \\ \text{ask\_sdk\_model.interfaces.amazonpay.request.} \\ \text{ask\_sdk\_model.interfaces.amazonpay.request.} \\ \text{ask\_sdk\_model.interfaces.} \\ \text{ask\_sdk\_model.in$ 

Bases:  $ask\_sdk\_model.interfaces.amazonpay.model.request.\\ base\_amazon\_pay\_entity.BaseAmazonPayEntity$ 

Setup Amazon Pay Request Object.

Returns the model properties as a dict

### **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', 'check
deserialized_types = {'billing_agreement_attributes': 'ask_sdk_model.interfaces.amazo
supports_multiple_types = False
to dict()
```

Chapter 9. Models :ask\_sdk\_model package

```
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

```
\begin{tabular}{lll} Bases: & ask\_sdk\_model.interfaces.amazonpay.v1.amazon\_pay\_error\_response. \\ AmazonPayErrorResponse \end{tabular}
```

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.ChargeAmazonPayl
```

```
Bases: ask\_sdk\_model.interfaces.amazonpay.vl.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 identi-
               fier.

    authorization details

                                                      ((optional) ask_sdk_model.
               interfaces.amazonpay.model.response.authorization_details.
               AuthorizationDetails) -
    attribute map = { 'amazon order reference id': 'amazonOrderReferenceId', 'authorizatio
    deserialized_types = {'amazon_order_reference_id': 'str', 'authorization_details':
    supports_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.SetupAmazonPayRes
    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.amazonpa
    supports_multiple_types = False
    to_dict()
        Returns the model properties as a dict
        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

```
\textbf{class} \  \  \text{ask\_sdk\_model.interfaces.amazonpay.v1.amazon\_pay\_error\_response.} \\ \textbf{AmazonPayErrorResponse.} \\ \textbf{AmazonPayError
```

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

autho-

thorize\_attributes=Ne

seller\_order\_attribute

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

```
interfaces.amazonpay.model.v1.seller_order_attributes.
               SellerOrderAttributes) -
                                          ((optional) ask_sdk_model.interfaces.
             • provider_attributes
               amazonpay.model.vl.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.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 reponse to Charge Amazon Pay request.
        Parameters
             • amazon_order_reference_id ((optional) str) - The order reference identi-

    authorization details

                                                      ((optional) ask sdk model.
               interfaces.amazonpay.model.v1.authorization_details.
               AuthorizationDetails) -
    attribute_map = { 'amazon_order_reference_id': 'amazonOrderReferenceId', 'authorizatio
    deserialized_types = {'amazon_order_reference_id': 'str', 'authorization_details': '
    supports_multiple_types = False
    to_dict()
        Returns the model properties as a dict
        Returns the string representation of the model
```

((optional) ask\_sdk\_model.

### ask sdk model.interfaces.amazonpay.v1.setup amazon pay module

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', 'check
deserialized_types = {'billing_agreement_attributes': 'ask_sdk_model.interfaces.amazo
supports_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
     Bases: object
         Parameters billing_agreement_details
```

```
class ask sdk model.interfaces.amazonpay.v1.setup amazon pay result.SetupAmazonPayResult (bi
```

((optional) ask\_sdk\_model.

Setup Amazon Pay Result Object. It is sent as part of the reponse to SetupAmazonPay request.

```
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**

- ((optional) ask\_sdk\_model.interfaces.audioplayer. stream.Stream) -
- ((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,
                                                                                                sub-
                                                                                                ti-
                                                                                                tle=None,
                                                                                                art=None,
                                                                                                back-
                                                                                                ground_image
    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':
    deserialized_types = {'art': 'ask_sdk_model.interfaces.display.image.Image', 'backgro
    supports_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\_millised ken=None, player\_activity= 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': 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.caption data module class ask\_sdk\_model.interfaces.audioplayer.caption\_data.CaptionData(content=None, ject\_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.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.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_base)
    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.
                                                                                                  playe
                                                                                                  ken=
    Bases: object
        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,
                                                                              ob-
                                                            ject_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':
    deserialized_types = {'message': 'str', 'object_type': 'ask_sdk_model.interfaces.aud
    supports_multiple_types = False
    to_dict()
        Returns the model properties as a dict
        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
                                       [MEDIA ERROR INTERNAL DEVICE ERROR,
                                                                                  ME-
               enum
                        values:
    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

### **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
```

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
                                                                                                    ta
                                                                                                    lo
                                                                                                    cc
                                                                                                    c\iota
```

er roto kε

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 t

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

 $\textbf{class} \ \, \texttt{ask\_sdk\_model.interfaces.audioplayer.playback\_nearly\_finished\_request.PlaybackNearly} \\ \text{ask\_sdk\_model.interfaces.audioplayer.playback\_nearly\_finished\_request.PlaybackNearly} \\ \text{ask\_sdk\_model.interfaces.audioplayer.playback\_nearly\_finished\_request.PlaybackNearly} \\ \text{ask\_sdk\_model.interfaces.audioplayer.playback\_nearly\_finished\_request.PlaybackNearly} \\ \text{ask\_sdk\_model.interfaces.audioplayer.playback\_nearly\_finished\_request.PlaybackNearly} \\ \text{ask\_sdk\_model.interfaces.audioplayer.playback\_nearly\_finished\_request.PlaybackNearly} \\ \text{ask\_sdk\_model.interfaces.audioplayer.playbackNearly} \\ \text{ask\_sd$ 

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

 $\textbf{class} \ \, \texttt{ask\_sdk\_model.interfaces.audioplayer.playback\_started\_request.PlaybackStartedRequest.playbackSta$ 

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)-

Returns the string representation of the model

```
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()
```

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()
```

# ask sdk model.interfaces.audioplayer.player activity module

Returns the string representation of the model

```
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,
                                                                                  off-
                                                                 set 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)-
                                           ((optional) ask_sdk_model.interfaces.
              • caption_data
               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
         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

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.

 $\begin{tabular}{ll} Postal Address: ask\_sdk\_model.interfaces.connections.entities.postal\_address. \\ Postal Address. \end{tabular}$ 

### 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.connectio
    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
                                                                                             lo-
                                                                                             cal-
                                                                                             ity=None,
                                                                                             re-
                                                                                             gion=None,
                                                                                             postal_code=
                                                                                             coun-
                                                                                             try=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': '@typ
    deserialized_types = {'country': 'str', 'locality': 'str', 'object_type':
                                                                                             'str', 'p
    supports_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

```
 \textbf{class} \  \, \text{ask\_sdk\_model.interfaces.connections.entities.restaurant.} \\ \textbf{Restaurant} \, (\textit{version=None}, \\ \textit{name=None}, \\ \textit{lo-} \\ \textit{ca-} \\ \textit{tion=None}) \\ \textbf{Bases:} \  \, \textit{ask\_sdk\_model.interfaces.connections.entities.base\_entity.} \\ \textbf{BaseEntity} \\ \textbf{Restaurant} \, \text{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

# Parameters

Bases: object

- 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.
    Schedule Food Establishment Reservation Request: as {\it k\_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,
    Schedule TaxiReservation Request: ask\_sdk\_model.interfaces.connections.requests.
     schedule_taxi_reservation_request.ScheduleTaxiReservationRequest
    attribute_map = {'object_type': '@type', '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()
```

ask sdk model.interfaces.connections.requests.base request.

Bases:

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_ty
deserialized_types = {'description': 'str', 'image_type': '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.connections.requests.print pdf request module

```
class ask_sdk_model.interfaces.connections.requests.print_pdf_request.PrintPDFRequest (version
    Bases:
                    ask_sdk_model.interfaces.connections.requests.base_request.
```

tle=Neurl=Ndescription=1

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':
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.PrintWebPageReq

```
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': 'ti
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.schedule\_food\_establishment\_reservation\_request module

 $\textbf{class} \ \, \texttt{ask\_sdk\_model.interfaces.connections.requests.schedule\_food\_establishment\_reservations.schedule\_food\_establishment\_reservations.requests.schedule\_food\_establishment\_reservations.requests.schedule\_food\_establishment\_reservations.requests.schedule\_food\_establishment\_reservations.schedule\_food\_establishment\_reservations.schedule\_food\_establishment\_reservations.schedule\_food\_establishment\_reservations.schedule\_food\_establishment\_reservations.schedule\_food\_establishment\_reservations.schedule\_food\_establishment\_reservations.schedule\_food\_establishment\_reservations.schedule\_food\_establishment\_reservations.schedule\_food\_establishment\_reservations.schedule\_food\_establishment\_reservations.schedule\_food\_establishment\_reservations.schedule\_food\_establishment\_reservations.schedule\_food\_establishment\_reservations.schedule\_food\_establishment\_reservations.schedule\_food\_establishment\_reservations.schedule\_food\_establishment\_reservations.schedule\_food\_establishment\_reservations.schedule\_food\_establishment\_reservations.schedule\_foo$ 

```
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': ':
deserialized_types = {'object_type': 'str', 'party_size': 'str', 'restaurant': '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.connections.requests.schedule\_taxi\_reservation\_request module

class ask\_sdk\_model.interfaces.connections.requests.schedule\_taxi\_reservation\_request.Schedule\_taxi\_reservation\_request.

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.enti
supports_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

 $\textbf{class} \ \, \texttt{ask\_sdk\_model.interfaces.connections.vl.start\_connection\_directive.} \\ \textbf{StartConnectionDirec$ 

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.

name=None payload=None)

## ask sdk model.interfaces.connections.connections request module

Bases: ask\_sdk\_model.request.Request

Returns the string representation of the model

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
deserialized_types = {'locale': 'str', 'name': 'str', 'object_type': 'str', 'payload
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
```

#### ask sdk model.interfaces.connections.connections response module

```
class ask_sdk_model.interfaces.connections.connections_response.ConnectionsResponse(request_it
```

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.
- ((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', 'payloa
deserialized_types = {'locale':
                                 'str', 'name':
                                                   'str', 'object_type':
                                                                            'str',
                                                                                  'payloa
supports_multiple_types = False
to dict()
   Returns the model properties as a dict
to_str()
```

ask\_sdk\_model.interfaces.connections.connections\_status module

Returns the string representation of the model

```
class ask_sdk_model.interfaces.connections.connections_status.ConnectionsStatus(code=None,
                                                                                   sage=None)
```

Bases: object

tamp=No locale=Nor status=None name=No payload=Noi token=Non 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

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', 'toke
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

 ${\bf class} \ {\tt ask\_sdk\_model.interfaces.connections.send\_response\_directive.} {\bf SendResponseDirective} \ (state of the connection of th$ 

lo

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'
supports_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.
Percentage and point id((aptional) at r) The endpoint ID of the 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

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 orginated from.

```
attribute_map = {'endpoint': 'endpoint', 'header': 'header', 'payload': 'payload'}
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.event\_filter module

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': 'filt
```

```
deserialized_types = {'filter_expression': 'object', 'filter_match_action': 'ask_sdk_
supports_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.EventsRe

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', 're
deserialized_types = {'events': 'list[ask_sdk_model.interfaces.custom_interface_contr
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
```

to str()

Returns the string representation of the model

tion\_payload=

# ask sdk model.interfaces.custom interface controller.expiration module

```
class ask_sdk_model.interfaces.custom_interface_controller.expiration.Expiration(duration_in_n
ex-
pi-
ra-
```

Bases: object

to str()

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_pa
deserialized_types = {'duration_in_milliseconds': 'int', 'expiration_payload': 'obje
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
```

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()
```

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()
```

# ask\_sdk\_model.interfaces.custom\_interface\_controller.filter\_match\_action module

```
class ask_sdk_model.interfaces.custom_interface_controller.filter_match_action.FilterMatch
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

Returns the string representation of the model

# ask\_sdk\_model.interfaces.custom\_interface\_controller.header module

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.SendDi

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.Start\_e

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.

# ask sdk model.interfaces.custom interface controller.stop event handler directive module

```
{\bf class} \  \  {\rm ask\_sdk\_model.interfaces.custom\_interface\_controller.stop\_event\_handler\_directive. {\bf Stop\_event\_handler\_directive.} \\ {\bf Bases:} \  \  {\rm 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

```
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)-
                                 ((optional) ask_sdk_model.interfaces.display.
             back_button
               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
```

Allowed enum values: [HIDDEN, VISIBLE]

## 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)-
                                ((optional) ask_sdk_model.interfaces.display.

    back_button

               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)-

((optional) ask\_sdk\_model.interfaces.display.

back button

back\_button\_behavior.BackButtonBehavior) -

```
• background_image
                                        ((optional) ask_sdk_model.interfaces.
              display.image.Image) -
                         ((optional) ask_sdk_model.interfaces.display.image.
             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) -
                                ((optional) ask_sdk_model.interfaces.display.
             • text_content
              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)-
                          ((optional) ask_sdk_model.interfaces.display.image.
             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_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)
                                                                                                         tamp
                                                                                                         lo-
                                                                                                         cale:
                                                                                                         to-
                                                                                                         ken=
     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':
                                                                                                  '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.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

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)-
                           ((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)-
                          ((optional) ask_sdk_model.interfaces.display.image.
              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-
                                                                          tle=None,
                                                                          list_items=None)
    Bases: ask_sdk_model.interfaces.display.template.Template
        Parameters
             • token((optional) str)-
                                ((optional) ask_sdk_model.interfaces.display.

    back button

              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
        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 (te
    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

## ask sdk model.interfaces.display.template module

# 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
```

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attribute\_map = {'back\_button': 'backButton', 'object\_type': 'type', 'token':

'toke

```
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,
                                                                       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,

#### ask sdk model.interfaces.gadget controller package

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.gadget\_controller.set\_light\_directive module

ram-

ters=

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.

# 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.InputHandlerEventRec

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.

# 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

Returns the string representation of the model

#### **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', ':
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()
```

# ask\_sdk\_model.interfaces.game\_engine.stop\_input\_handler\_directive module

# 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

Returns the string representation of the model

```
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()
```

## ask sdk model.interfaces.geolocation.altitude module

```
 \textbf{class} \  \, \text{ask\_sdk\_model.interfaces.geolocation.altitude.} \\ \textbf{Altitude} \, ( \, \textbf{altitude\_in\_meters=None}, \\ \textbf{accu-racy\_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': 'accuracyInMeters', 'altitude_in_meters': '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

Bases: object

An object containing the location information of the device.

Returns the string representation of the model

#### **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': 'l
deserialized_types = {'accuracy_in_meters': 'float', 'latitude_in_degrees': 'float',
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to str()
```

## 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

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
```

tion services=Non

```
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,
                                                                      racy_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 direc-
                tion of the device in degrees.
              • accuracy_in_degrees ((optional) float) - A double representing the accu-
                racy of the heading measurement in degrees.
    attribute_map = {'accuracy_in_degrees': 'accuracyInDegrees', 'direction_in_degrees':
    deserialized_types = {'accuracy_in_degrees': 'float', 'direction_in_degrees':
     supports_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,
                                                                                             cess=None)
    Bases: object
    An object containing status and access.
         Parameters
                               ((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.
                               ((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,
                                                                   racy_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 repre-
                 senting the accuracy of the speed measurement in meters.
     attribute_map = {'accuracy_in_meters_per_second': 'accuracyInMetersPerSecond', 'speed
     deserialized_types = {'accuracy_in_meters_per_second': 'float', 'speed_in_meters_per_
     supports_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**

ta lo

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**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
tit
```

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=Non
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

```
\begin{tabular}{ll} \textbf{class} & as k\_sdk\_model.interfaces.monetization.v1.purchase\_result. \textbf{PurchaseResult} \\ & Bases: \verb"enum.Enum" \\ \end{tabular}
```

Response from purchase directives: \* ACCEPTED - User have accepted the offer to purchase the product \* DE-CLINED - 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.AnnounceRoad
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.NextCommandIs

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.PauseCo

 $Bases: \ ask\_sdk\_model.request.Request$ 

#### **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
```

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.PlayCommandIs

Bases: ask\_sdk\_model.request.Request

#### **Parameters**

to str()

- 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': 'requestId'
deserialized_types = {'locale': 'str', 'object_type': 'str', 'request_id': 'str', 'req
```

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.Previous

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.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

```
* message((optional) str)-
attribute_map = {'message': 'message', 'object_type': 'type'}
deserialized_types = {'message': 'str', 'object_type': 'ask_sdk_model.interfaces.sys
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
```

Returns the string representation of the model

to str()

### 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, INTER-NAL_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.ExceptionEncounteredRed

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)
                                     ((optional) ask sdk model.interfaces.system.
              • cause
                error cause. Error Cause) -
    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
```

*sult=None* 

#### 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

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':
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
```

## ask\_sdk\_model.interfaces.videoapp package

Returns the string representation of the model

#### **Submodules**

**Note:** Canonical imports have been added in the  $\__{\tt init}$ \_.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
        Returns the string representation of the model
ask_sdk_model.interfaces.videoapp.metadata module
class ask_sdk_model.interfaces.videoapp.metadata.Metadata(title=None,
                                                                             subti-
                                                               tle=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()
```

to str()

Returns the model properties as a dict

Returns the string representation of the model

### ask\_sdk\_model.interfaces.videoapp.video\_item module

```
• metadata ((optional) ask_sdk_model.interfaces.videoapp. metadata.Metadata)-
```

```
attribute_map = {'metadata': 'metadata', 'source': 'source'}
deserialized_types = {'metadata': 'ask_sdk_model.interfaces.videoapp.metadata.Metadat
supports_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

alog=

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)-
                         ((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(ca
```

```
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_confi
supports_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,
                                                                                      v=None,
                                                                                      char-
                                                                                      ac-
                                                                                      ters=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':
    supports_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
         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

 $\textbf{class} \ \, \texttt{ask\_sdk\_model.interfaces.viewport.size.continuous\_viewport\_size.ContinuousViewportSize.continuous\_viewport\_size.ContinuousViewportSize.continuous\_viewport\_size.continuousViewportSize.continuous\_viewport\_size.continuousViewportSize.con$ 

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
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': '
```

```
supports_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
```

ask\_sdk\_model.interfaces.viewport.video package

Returns the string representation of the model

### **Submodules**

to\_str()

**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

Returns the string representation of the model

```
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()
```

#### **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,
                                                                                       pre-
                                                                                       sen-
                                                                                       ta-
                                                                                       tion_type=None,
                                                                                       can rotate=None,
                                                                                       con-
                                                                                       fig-
                                                                                       u-
                                                                                       ra-
                                                                                       tion=None)
                          ask_sdk_model.interfaces.viewport.typed_viewport_state.
    Bases:
    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
```

```
• 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

90 degrees.

#### ask sdk model.interfaces.viewport.aplt viewport state module

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)-

### ask\_sdk\_model.interfaces.viewport.experience module

Bases: object

to\_str()

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
```

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

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,
     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'}
```

ob-

ject\_type=None

```
discriminator_value_class_map = {'APL': 'ask_sdk_model.interfaces.viewport.apl_viewpor
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

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.

```
((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.
                                 ((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':
    supports_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.
    supports_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.
    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

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', 'ad
```

```
deserialized_types = {'address_line1': 'str', 'address_line2': 'str', 'address_line3
supports_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

 ${\tt class} \ \, {\tt ask\_sdk\_model.services.device\_address.device\_address\_service\_client.} \\ {\tt DeviceAddressService\_client.device\_addressService\_addressService\_client.device\_addressServi$ 

Bases: ask sdk model.services.base service client.BaseServiceClient

ServiceClient for calling the DeviceAddressService APIs.

```
\begin{tabular}{ll} \textbf{Parameters api\_configuration} & \textbf{(ask\_sdk\_model.services.} \\ \textbf{api\_configuration.ApiConfiguration)} - \textbf{Instance of ApiConfiguration} \\ \end{tabular}
```

#### 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

#### **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

#### **Parameters**

#### 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.directi
    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_
    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 head-
                  ers 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.

tom\_

```
• 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
         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=No
                                                                                                di-
                                                                                                rec-
                                                                                                tive=None
    Bases: object
    Send Directive Request payload.
         Parameters
                          ((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.Direct
    supports_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

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
```

si

```
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.
                                          ((optional) list[ask_sdk_model.services.
         Parameters endpoints
             endpoint_enumeration.endpoint_info.EndpointInfo]) - The list of end-
             points.
     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_enumeration_service
     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
     qet 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 con-
                tain 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=Non
                                                                                         ca-
                                                                                         pa-
                                                                                         bil-
                                                                                         i-
                                                                                         ties=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', 'frien
deserialized_types = {'capabilities': 'list[ask_sdk_model.services.endpoint_enumerati
supports_multiple_types = False
to dict()
   Returns the model properties as a dict
```

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, mes-
                                                                   sage=None)
    Bases: object
```

#### **Parameters**

to\_str()

```
• 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

### 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

### 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':
    deserialized_types = {'repeat': 'int', 'sequence': 'list[ask_sdk_model.services.gadg
    supports_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
    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', 'trigg
    deserialized_types = {'animations': 'list[ask_sdk_model.services.gadget_controller.li
    supports_multiple_types = False
    to_dict()
        Returns the model properties as a dict
         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.

trigger\_c aniтаtions

```
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

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', 'mee
deserialized_types = {'fails': 'list[str]', 'maximum_invocations': 'int', 'meets':
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to str()
```

### ask sdk model.services.game engine.event reporting type module

Returns the string representation of the model

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

### Bases: object

up = 'up'

### **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', 'gadge
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.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
```

### ask\_sdk\_model.services.game\_engine.input\_handler\_event module

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

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

 $\textbf{Bases:} \ ask\_sdk\_model.services.game\_engine.recognizer.Recognizer$ 

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', 'gadge'
deserialized_types = {'actions': 'list[str]', 'anchor': 'ask_sdk_model.services.game_
supports_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.PatternRecognizerAnchor_type.PatternRecognizerAnchor_type.
```

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

 $Bases: ask\_sdk\_model.services.game\_engine.recognizer.Recognizer$ 

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': '
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.alexa list module

```
class ask_sdk_model.services.list_management.alexa_list.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)-
                         ((optional) ask_sdk_model.services.list_management.
              list state.ListState) -
             • version((optional) int)-
                                     ((optional) list[ask sdk model.services.
              list_management.alexa_list_item.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.alexa_lis
    supports_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.alexa list item module
class ask_sdk_model.services.list_management.alexa_list_item.AlexaListItem(id=None,
                                                                                 sion=None,
                                                                                 value=None,
                                                                                 sta-
                                                                                 tus=None,
                                                                                 cre-
                                                                                 ated_time=None,
                                                                                 ир-
                                                                                 dated_time=None,
                                                                                 href=None)
    Bases: object
        Parameters
             • id((optional) str)-
             • version((optional) int)-
             • value((optional) str)-
                         ((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.alexa list metadata module
class ask_sdk_model.services.list_management.alexa_list_metadata.AlexaListMetadata(list_id=No
                                                                                            name=Non
                                                                                            state=None
                                                                                            ver-
                                                                                            sion=None
                                                                                            sta-
                                                                                            tus_map=l
    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
    deserialized_types = {'list_id': 'str', 'name': 'str', 'state': 'ask_sdk_model.serv
    supports_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.alexa_lists_metadata module
class ask_sdk_model.services.list_management.alexa_lists_metadata.AlexaListsMetadata(lists=No.
    Bases: object
        Parameters lists
                                      ((optional) list[ask_sdk_model.services.
            list_management.alexa_list_metadata.AlexaListMetadata]) -
    attribute_map = {'lists': 'lists'}
    deserialized_types = {'lists': 'list[ask_sdk_model.services.list_management.alexa_lis
    supports_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)-
                          ((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_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.create_list_request module
class ask_sdk_model.services.list_management.create_list_request.CreateListRequest(name=Non
                                                                                            state=None
    Bases: object
        Parameters
             • name((optional) str)-
                          ((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_managemen
    supports_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, mes-
                                                               sage=None)
    Bases: object
```

```
Parameters
             • object_type ((optional) str)-
             • message((optional) str)-
    attribute_map = {'message': 'message', 'object_type': 'type'}
    deserialized types = {'message': '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.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':
    supports_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
        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.ListCreatedEventRed

Bases: ask\_sdk\_model.request.Request

#### **Parameters**

- request\_id ((optional) str) Represents the unique identifier for the specific
- 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.
- ((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

```
\textbf{class} \  \, \texttt{ask\_sdk\_model.services.list\_management.list\_deleted\_event\_request.} \\ \textbf{ListDeletedEventRecompanies} \\ \textbf{class} \  \, \texttt{ask\_sdk\_model.services.list\_management.list\_deleted\_event\_request.} \\ \textbf{class} \  \, \texttt{ask\_sdk\_model.services.list\_management.list\_management.list\_management.} \\ \textbf{class} \  \, \texttt{ask\_sdk\_model.services.list\_management.list\_management.list\_management.} \\ \textbf{class} \  \, \texttt{ask\_sdk\_model.services.list\_management.list\_management.list\_management.} \\ \textbf{class\_sdk\_model.services.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.l
```

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_creation_time': 'event_cre
```

to\_dict()

Returns the model properties as a 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

### **Parameters**

```
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.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreated_event_request.ListItemsCreate
           Bases: ask_sdk_model.request.Request
                      Parameters
                                  • request_id ((optional) str) - Represents the unique identifier for the specific
                                  • 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.
                                                                  ((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.ListItemsDele

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_creation_time': 'event_cre
```

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.ListItemsUpdated_event_request.
```

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_creation_time': 'event_c
```

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

```
\textbf{class} \  \, \texttt{ask\_sdk\_model.services.list\_management.list\_management\_service\_client.ListManagement.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_management.list\_ma
```

```
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
   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 getListsMeta-data 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.ListUpdatedEventRed
    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,
                                                                                    sta-
                                                                     tus=None)
```

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Bases: object

**Parameters** 

• url((optional) str)-

```
((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
                          ((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=Non
                                                                                            state=None
                                                                                            ver-
                                                                                            sion=None
    Bases: object
        Parameters
             • name ((optional) str)-
                          ((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

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

This is a wrapper class over <code>ask\_sdk\_model.services.lwa.access\_token\_response</code>. <code>AccessTokenResponse</code> 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

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', 'refres
    deserialized types = {'client id': 'str', 'client secret': 'str', 'refresh token':
         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,
                                                                                         pires in=None,
                                                                                          scope=None,
                                                                                         to-
                                                                                          ken_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'
    deserialized_types = {'access_token': 'str', 'expires_in': 'int', 'scope': '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,
                                                                                      er-
                                                     ror_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.services.lwa.lwa client module
class ask_sdk_model.services.lwa.lwa_client.LwaClient(api_configuration,
                                                                  tication_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
         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.
```

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Return type str

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

### 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,
                                                                                            ref-
                                                                                            er-
                                                                                            ence_name=None,
                                                                                            name=None,
                                                                                            ob-
                                                                                            ject_type=None,
                                                                                            sum-
                                                                                            mary=None,
                                                                                            pur-
                                                                                            chasable=None,
                                                                                            en-
                                                                                            ti-
                                                                                            tled=None,
                                                                                            en-
                                                                                            ti-
                                                                                            tle-
                                                                                            ment_reason=None,
                                                                                            tive_entitlement_count=
                                                                                            chase_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)-

```
" Accept-Language & quot; header
              • purchasable ((optional) ask_sdk_model.services.monetization.
               purchasable state.PurchasableState) -
                              ((optional) ask_sdk_model.services.monetization.

    entitled

               entitled state. Entitled State) -

    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 prod-
               uct 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':
    deserialized_types = {'active_entitlement_count': 'int', 'entitled': 'ask_sdk_model.
    supports_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.InSkillPro
    Bases: object
        Parameters
              • results ((optional) list[ask_sdk_model.services.monetization.
               transactions. Transactions]) - List of transactions of in skill products purchases
                              ((optional) ask_sdk_model.services.monetization.
               metadata.Metadata) -
    attribute_map = {'metadata': 'metadata', 'results': 'results'}
    deserialized_types = {'metadata':
                                            'ask_sdk_model.services.monetization.metadata.Metad
    supports_multiple_types = False
    to dict()
        Returns the model properties as a dict
        Returns the string representation of the model
```

• summary ((optional) str) - Product summary in the language from the

```
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': 'isTruncate
    deserialized_types = {'in_skill_products': 'list[ask_sdk_model.services.monetization.
    supports_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.R
    supports_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.MonetizationServiceC
    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
```

 $\verb"get_in_skill_product" (accept_language, product_id, **kwargs)$ 

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. \* 'PEND-ING\_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 fullfiled 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

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()

Peturns the string representation of the
```

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

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.CreateProactive

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.

```
((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.
                                             ((optional) ask_sdk_model.services.

    relevant audience

               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,
                                                                                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
         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,
                                                                                pay-
                                                                  load=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.ProactiveEve

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

```
 \textbf{class} \  \  \text{ask\_sdk\_model.services.proactive\_events.relevant\_audience.RelevantAudience} \  \  (\textit{object\_type=N} \\ pay-
```

Bases: object

The audience for this event.

#### **Parameters**

```
• object_type ((optional) ask_sdk_model.services. proactive_events.relevant_audience_type.RelevantAudienceType)
```

load=None)

• 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.relevan
supports_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.aler
    supports_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=N
    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.spo
    supports_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, mes-

```
sage=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.remind
    supports_multiple_types = False
    to dict()
        Returns the model properties as a dict
        Returns the string representation of the model
```

### ask sdk model.services.reminder management.get reminder response module

 $\textbf{class} \ \, \texttt{ask\_sdk\_model.services.reminder\_management.get\_reminder\_response}. \\ \textbf{GetReminderResponse} \ \, \textbf{class} \ \, \texttt{ask\_sdk\_model.services.reminder\_management.get}. \\ \textbf{SetReminderResponse} \ \, \textbf{class} \ \, \textbf{ask\_sdk\_model.services.reminder\_management.get}. \\ \textbf{SetReminderResponse} \ \, \textbf{class} \ \, \textbf{cla$ 

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\_times
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.get\_reminders\_response module

class ask sdk model.services.reminder management.get reminders response.GetRemindersResponse

Bases: object

Response object for get reminders request

```
Parameters
```

to dict()

Returns the model properties as a dict

```
• 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':
    deserialized_types = {'alerts': 'list[ask_sdk_model.services.reminder_management.remi
    supports_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=N
    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_noti
    supports_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.PushNotification
    Bases: enum. Enum
    Push notification status - Enabled/Disabled
    Allowed enum values: [ENABLED, DISABLED]
    DISABLED = 'DISABLED'
    ENABLED = 'ENABLED'
```

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

## $ask\_sdk\_model.services.reminder\_management.recurrence\ module$

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 th

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'
```

```
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 freg 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,
                                                                                  dated_time=None,
                                                                                  sta-
                                                                                  tus=None,
                                                                                  trig-
                                                                                  ger=None,
                                                                                  alert_info=None,
                                                                                  push_notification=None,
                                                                                  sion=None)
     Bases: object
     Reminder object
         Parameters
               • alert_token ((optional) str) - Unique id of this reminder alert
```

MO = 'MO'

```
    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_times
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 created event request module

class ask\_sdk\_model.services.reminder\_management.reminder\_created\_event\_request.ReminderCre

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', 'reques
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 deleted event module
class ask_sdk_model.services.reminder_management.reminder_deleted_event.ReminderDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDeletedEventerDelete
          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.ReminderDe
          Bases: ask_sdk_model.request.Request
                    Parameters
                                • request_id ((optional) str) - Represents the unique identifier for the specific
                                • 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', 'reques
          deserialized_types = {'body': 'ask_sdk_model.services.reminder_management.reminder_de
          supports_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

 $\textbf{class} \ \, \texttt{ask\_sdk\_model.services.reminder\_management.reminder\_management\_service\_client.} \\ \textbf{Reminder\_management.service}.$ 

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
   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**

to\_str()

Returns the string representation of the model

- alert\_token (str) (required)
- reminder\_request
   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
                                                                                            trig-
                                                                                            ger=None,
                                                                                            alert_info=1
                                                                                            push notific
    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
```

# ask sdk model.services.reminder management.reminder response module

```
class ask_sdk_model.services.reminder_management.reminder_response.ReminderResponse(alert_tokaccre-ated_time up-dated_time status=None ver-sion=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.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_request.ReminderStarted_event_reminderStarted_event_request.ReminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_event_reminderStarted_
```

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', 'reques
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.Rem.
```

Bases: ask\_sdk\_model.request.Request

# **Parameters**

- request\_id ((optional) str) Represents the unique identifier for the specific request.
- timestamp ( <code>(optional) datetime</code>) 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', 'reques
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.ReminderUpdated\_event\_reminderUpdated\_event\_request.ReminderUpdated\_event\_re

Bases: ask\_sdk\_model.request.Request

#### **Parameters**

- request\_id ((optional) str) Represents the unique identifier for the specific
- 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', 'reques
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.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.
- **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
                                               ((optional) ask sdk model.services.

    recurrence

                reminder_management.recurrence.Recurrence) -
    attribute_map = {'object_type': 'type', 'offset_in_seconds': 'offsetInSeconds', 'rec
    deserialized_types = {'object_type': 'ask_sdk_model.services.reminder_management.trig
    supports_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

# ask\_sdk\_model.services.skill\_messaging.send\_skill\_messaging\_request module

 $\textbf{class} \ \texttt{ask\_sdk\_model.services.skill\_messaging.send\_skill\_messaging\_request.} \textbf{SendSkillMessaging} \\ \textbf{sendSkillMessag$ 

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

```
((optional) ask_sdk_model.services.ups.error_code.
               ErrorCode) -
              • message ((optional) str) - A human readable description of error.
    attribute_map = {'code': 'code', '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, DE-
    VICE 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,
                                                                                         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 con-
                 tain 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 con-
                 tain 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 explict 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 explict 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 explict 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

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

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

Bases: ask\_sdk\_model.services.api\_client\_message.ApiClientMessage

Represents a response returned by <code>ask\_sdk\_model.services.api\_client.ApiClient</code> 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

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

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

 ${\bf class} \ {\tt ask\_sdk\_model.services.authentication\_configuration.} {\bf AuthenticationConfiguration} \ ({\it client\_clien$ 

fresh

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 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

```
\begin{tabular}{ll} \textbf{Parameters api\_configuration} & \textbf{(ask\_sdk\_model.services.} \\ \textbf{api\_configuration.ApiConfiguration)} - \textbf{ApiConfiguration implementation} \\ \end{tabular}
```

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 descrialization

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

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,
                                                                                                tus_code,
                                                                                                mes-
                                                                                                sage)
     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

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

Bases: object

Represents a possible authority for entity resolution

#### **Parameters**

- authority((optional) str)-
- status ((optional) ask\_sdk\_model.slu.entityresolution.status. Status)-

```
((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
                                ((optional) ask sdk model.slu.entityresolution.
         Parameters code
            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.StatusC
    supports_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':
    deserialized_types = {'id': 'str', 'name': 'str'}
    supports_multiple_types = False
    to_dict()
         Returns the model properties as a dict
         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(permiss
    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()
```

to str()

Returns the string representation of the model

Returns the model properties as a dict

#### 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_fo
    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': 'smallImageU
    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
                                   ((optional) ask sdk model.ui.play behavior.
             play_behavior
               PlayBehavior) -
             • text((optional) str)-
    attribute_map = {'object_type': 'type', 'play_behavior': 'playBehavior', 'text':
```

```
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,
                                                                ssml=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': 's
    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.standard_card module
class ask_sdk_model.ui.standard_card.StandardCard(title=None,
                                                                  text=None.
                                                                              im-
                                                      age=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':
    deserialized_types = {'image': 'ask_sdk_model.ui.image.Image', '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
```

# 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_completed': 'ask_sdk_model.connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_connection_conne
```

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```
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

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

# 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': 'supportedInterfac
deserialized_types = {'device_id': 'str', 'supported_interfaces': 'ask_sdk_model.sup
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.

```
Custom Interface Controller. Stop Event Handler:\\
```

```
ask_sdk_model.interfaces.custom_interface_controller.
stop event handler directive.StopEventHandlerDirective,
```

Navigation. Assistance. Announce Road Regulation: ask\_sdk\_model.interfaces.navigation. assistance.announce\_road\_regulation. Announce Road Regulation,

**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. Start Connection Directive,
A lexa. Presentation. A PLT. Render Document: \ ask\_sdk\_model.interfaces.alexa.presentation.
aplt.render document directive.RenderDocumentDirective,
GameEngine.StartInputHandler: ask_sdk_model.interfaces.game_engine.
start input handler directive. Start Input Handler Directive,
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. Render Document: \ 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_statu
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
```

# 9.11 ask\_sdk\_model.intent\_confirmation\_status module

Returns the string representation of the model

```
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

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': '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
```

# 9.13 ask\_sdk\_model.launch\_request module

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': '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()
```

# 9.14 ask\_sdk\_model.permission\_status module

Returns the string representation of the model

```
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.scopes)
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

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.alexa.presentation.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,

 ${\bf SessionEndedRequest.}\ as {\it k\_sdk\_model.session\_ended\_request.SessionEndedRequest},$ 

Alexa.Presentation.APL.LoadIndexListData: ask\_sdk\_model.interfaces.alexa.presentation.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,

 $\label{lem:alexa.Presentation.HTML.Message: ask\_sdk\_model.interfaces.alexa.presentation.html. \\ message\_request.MessageRequest,$ 

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.alexa.presentation.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,

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,

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,

 $\label{lem:playCommandIssued:ask_sdk_model.interfaces.playbackcontroller.} PlayCommand_issued\_request.PlayCommandIssuedRequest,$ 

AudioPlayer.PlaybackFinished: ask\_sdk\_model.interfaces.audioplayer.playback finished request.PlaybackFinishedRequest,

#### AlexaSkillEvent.ProactiveSubscriptionChanged:

ask\_sdk\_model.events.skillevents.proactive\_subscription\_changed\_request.
ProactiveSubscriptionChangedRequest,

Display. Element Selected: ask\_sdk\_model.interfaces.display.element\_selected\_request.Element Selected Request,

AlexaSkillEvent.SkillPermissionChanged: ask\_sdk\_model.events.skillevents.permission\_changed\_request.PermissionChangedRequest,

Reminders.ReminderUpdated: ask\_sdk\_model.services.reminder\_management.reminder\_updated\_event\_request.ReminderUpdatedEventRequest,

 $Alexa. Presentation. APL. Runtime Error: \verb| ask_sdk_model.interfaces.alexa.presentation. \\ apl.runtime_error_event. Runtime Error Event,$ 

Alexa.Presentation.HTML.RuntimeError: ask\_sdk\_model.interfaces.alexa.presentation.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,

 $\label{lem:system:system} \textbf{System.ExceptionEncountered:} \ ask\_sdk\_model.interfaces.system. \\ exception\_encountered\_request.ExceptionEncounteredRequest, \\$ 

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':
    discriminator_value_class_map = {'Alexa.Presentation.APL.LoadIndexListData':
        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

# 9.18 ask sdk model.request envelope module

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_sd
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

#### **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)-
                                ((optional) list[ask_sdk_model.directive.

    directives

          Directive 1) -
        • 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', 'directiv
deserialized_types = {'can_fulfill_intent': 'ask_sdk_model.canfulfill.can_fulfill_int
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,
                                                                               ses-
                                                             sion_attributes=None,
                                                             user_agent=None,
                                                                                re-
                                                             sponse=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',
    deserialized_types = {'response': 'ask_sdk_model.response.Response', 'session_attribu
    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

## 9.22 ask sdk model.session module

Returns the string representation of the model

Represents a single execution of the alexa service

- **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': '.
deserialized_types = {'application': 'ask_sdk_model.application.Application', 'attrib
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':
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()

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.
                           [INVALID_RESPONSE, DEVICE_COMMUNICATION_ERROR, INTER-
    Allowed enum values:
    NAL_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
```

# 9.25 ask\_sdk\_model.session\_ended\_reason module

```
class ask_sdk_model.session_ended_reason.SessionEndedReason
    Bases: enum. Enum
```

Returns the string representation of the model

```
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

Bases: ask\_sdk\_model.request.Request

Returns the string representation of the model

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: <ol&gt;&lt;li&gt;The user says "exit"&lt;/li&gt;&lt;li&gt;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 response&lt;/li&gt;&lt;li&gt;an error occurs&lt;/li&gt;&lt;/ol&gt;

- 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', 'reas
deserialized_types = {'error': 'ask_sdk_model.session_ended_error.SessionEndedError',
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
```

# 9.27 ask\_sdk\_model.session\_resumed\_request module

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 (<code>(optional) datetime</code>) 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
```

Returns the string representation of the model

# 9.28 ask\_sdk\_model.slot module

- 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', 'resol
deserialized_types = {'confirmation_status': 'ask_sdk_model.slot_confirmation_status.
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

## 9.29 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.

- **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

Bases: object

An object listing each interface that the device supports. For example, if supportedInterfaces includes Audio-Player {}, then you know that the device supports streaming audio using the Audio-Player interface.

#### **Parameters**

- alexa\_presentation\_apl ((optional) ask\_sdk\_model.interfaces. alexa.presentation.apl.alexa\_presentation\_apl\_interface. AlexaPresentationAplInterface)-
- alexa\_presentation\_aplt ((optional) ask\_sdk\_model.interfaces. alexa.presentation.aplt.alexa\_presentation\_aplt\_interface. AlexaPresentationApltInterface)-
- alexa\_presentation\_html ((optional) ask\_sdk\_model.interfaces. alexa.presentation.html.alexa\_presentation\_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 = {'alexa_presentation_apl': 'Alexa.Presentation.APL', 'alexa_presentat
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

# 9.32 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.

- 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
```

# CHAPTER 10

# 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.SkillManagement

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.

- **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]

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 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]

```
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.

**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
- **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.

- catalog\_id (str) (required) Provides a unique identifier of the catalog
- catalog (ask\_smapi\_model.v1.skill.interaction\_model.version.version\_data.VersionData) (required)

**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, BadRequestV1, SlotTypeResponseV1]

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, BadRequestV1]

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.

**Return type** Union[*ApiResponse*, CreateNLUAnnotationSetResponseV1, Model400, Model401]

```
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, Model400, Model401]

```
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
   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**

- **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\_interaction\_model\_catalog\_v1 (catalog\_id, \*\*kwargs)
 Delete the catalog.

## **Parameters**

• catalog\_id (str) - (required) Provides a unique identifier of the catalog

**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, BadRequestV1]

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, BadRequestV1]

#### 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.

- **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, Model400, Model401]

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]

Generates preSigned urls to upload data

- 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

**Return type** Union[*ApiResponse*, ErrorV1, CreateContentUploadUrlResponseV1, BadRequestErrorV1]

```
generate credentials for alexa hosted skill v1 (skill id,
```

hosted\_skill\_repository\_credentials\_request, \*\*kwares)

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.alexa\_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\_alexa\_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\_alexa\_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 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, Model400, Model401]

```
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]

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.

**Return type** Union[*ApiResponse*, StandardizedErrorV1, GetConflictDetectionJobStatusResponseV1, BadRequestErrorV1]

qet 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 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]

 $\verb|get_interaction_model_catalog_values_v1| (catalog_id, version, **kwargs)|$ 

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]

- **slot\_type\_id** (*str*) (required) The identifier for a slot type.
- **update\_request\_id** (*str*) (required) The identifier for slotType version creation process

**Return type** Union[ApiResponse, StandardizedErrorV1, BadRequestV1, SlotTypeStatusV1]

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, BadRequestV1]

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, BadRequestV1, SlotTypeVersion-DataV1]

## 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-DF
- **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]

 ${\tt get\_isp\_associated\_skills\_v1} \ (product\_id, stage, **kwargs)$ 

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 listIn-SkillProducts 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'.

- **skill\_id** (str) (required) The skill ID.
- evaluation id (str) (required) Identifier of the evaluation.

**Return type** Union[ApiResponse, Model400, GetNLUEvaluationResponseV1, Model401]

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*, Model400, GetNLUAnnotationSetPropertiesResponseV1, Model401]

## 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*, GetNLUEvaluationResultsResponseV1, Model400, Model401]

## get\_skill\_credentials\_v1(skill\_id, \*\*kwargs)

Get the client credentials for the skill.

#### **Parameters**

• **skill\_id** (*str*) – (required) The skill ID.

**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.

- **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.

 $\label{eq:Return type Union} \textbf{Return type} \ \ Union[\textit{ApiResponse}, \ \ IntentRequestsV1, \ \ StandardizedErrorV1, \ \ BadRequestErrorV1]$ 

```
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]

```
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\_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, BadRequestV1]

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, BadRequestV1, ListSlotTypeResponseV1]

**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, ListNLUAnnotationSetsResponseV1, Model400, Model401]

## 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, Model400, Model401]

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]

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]

```
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\_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.

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**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]

Updates the properties of a 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]

```
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.
- **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.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, 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.ValidationsApiRequest) (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]

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, Model400, Model401]

```
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. 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\_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, BadRequestV1]

## **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, BadRequestV1]

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 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, Model400, Model401]

```
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':
deserialized_types = {'download_url': 'str', 'expires_at': 'datetime', 'status': '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.catalog.upload.file\_upload\_status module

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.GetContentUploadRespon

# 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)
                            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,
    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

ingestion\_step\_name.IngestionStepName) -

```
• 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_sign
    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
                                                                                             sta-
                                                                                             tus=None,
                                                                                             log_url=Nor
                                                                                             vi-
                                                                                             0-
                                                                                             la-
                                                                                             tions=None
    Bases: object
    Represents a single step in the multi-step ingestion process of a new upload.
         Parameters
                                 ((optional) ask_smapi_model.v1.catalog.upload.
```

```
• 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', 'violatio
deserialized_types = {'log_url': 'str', 'name': 'ask_smapi_model.v1.catalog.upload.i
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
```

# ask\_smapi\_model.v1.catalog.upload.upload\_status module

Returns the string representation of the model

```
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.CreateContentUploadUrlRe
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':
    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.CreateContentUploadUrl
    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.pre
    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=N
                                                                                                  part_n
                                                                                                  ex-
                                                                                                  pires_
    Bases: object
         Parameters
              • url((optional) str)-
              • part_number((optional) int)-
              • expires_at ((optional) datetime) -
    attribute_map = {'expires_at': 'expiresAt', 'part_number': 'partNumber', '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\_response) links=None, is truncated=No 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':
deserialized_types = {'associated_skill_ids': 'list[str]', 'is_truncated':
                                                                                 '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.isp.create\_in\_skill\_product\_request module

#### **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_i
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()

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
```

## ask smapi model.v1.isp.custom product prompts module

Returns the string representation of the model

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_
deserialized_types = {'bought_confirmation_prompt': 'str', 'purchase_prompt_descripti
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'
- FO = 'FO'
- 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'
  GU = 'GU'
- GW = 'GW'
- GY = 'GY'
- HK = 'HK'
- HM = 'HM'
- HN = 'HN'
- HR = 'HR'
- HT = 'HT'
- HU = 'HU'
- ID = 'ID'
- IE = 'IE'
- 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'
- MF = 'MF'
- 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
```

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vacy\_and\_co testing\_instructs

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## ask smapi model.v1.isp.in skill product definition module

class ask\_smapi\_model.v1.isp.in\_skill\_product\_definition.InSkillProductDefinition(version=Non

Bases: object

to\_str()

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': 'privacyAndComplia
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
```

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.InSkillProductDefinition
Bases: object

Defines In-skill product response.

Parameters in_skill_product_definition ((optional) ask_smapi_model.
```

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,
                                                                                               prod-
                                                                                               uct_id=None,
                                                                                               ref-
                                                                                               er-
                                                                                               ence name=None,
                                                                                               last_updated=None,
                                                                                               name by locale=Nor
                                                                                               sta-
                                                                                               tus=None,
                                                                                               stage=None,
                                                                                               ed-
                                                                                               itable_state=None,
                                                                                               pur-
                                                                                               chasable_state=None
                                                                                               links=None,
                                                                                               pric-
                                                                                               ing=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. Editable State) -
             • purchasable state
                                           ((optional) ask_smapi_model.v1.isp.
               purchasable_state.PurchasableState) -
                       ((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.Editab
    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': 'isTruncate
    deserialized_types = {'in_skill_products': 'list[ask_smapi_model.v1.isp.in_skill_prod
    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_sk
    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_i
    supports_multiple_types = False
    to dict()
        Returns the model properties as a dict
```

```
to str()
```

## 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 inskill 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':
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
```

# 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

to\_str()

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':
deserialized_types = {'default_price_listing': 'ask_smapi_model.v1.isp.price_listing.'
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,
                                                                                    cur-
                                                                  rency=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'
     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_
    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
```

**Parameters** product\_id((optional) str) - ID of the in-skill product created.

Product ID information.

```
attribute_map = {'product_id': 'productId'}
    deserialized_types = {'product_id':
    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':
     deserialized_types = {'distribution_countries': 'list[ask_smapi_model.v1.isp.distribu
     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
         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 pe-
                riod 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
```

rectains the model properties as a die

to\_str()

Returns the string representation of the model

# ask\_smapi\_model.v1.isp.summary\_marketplace\_pricing module

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

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.
                          [SOFTWARE, STREAMING_AUDIO, STREAMING_RADIO, INFORMA-
    Allowed enum values:
    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()

to\_dict()

Returns the model properties as a dict

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.AccessTokenSchemeT
    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 str()
```

## ask smapi model.v1.skill.account linking.account linking request module

 $\textbf{class} \ \, \texttt{ask\_smapi\_model.v1.skill.account\_linking.account\_linking\_request.} \\ \textbf{AccountLinkingRequest.} \\$ 

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. AccessTokenSchemeType)-

- **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.

```
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
```

ask smapi model.v1.skill.account linking.account linking response module

```
class ask_smapi_model.v1.skill.account_linking.account_linking_response.AccountLinkingResponse.
```

Bases: object

to\_str()

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. AccessTokenSchemeType)-
- **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.

```
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()
```

# ask smapi model.v1.skill.account linking.account linking type module

Returns the string representation of the model

```
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
```

## ask smapi model.v1.skill.alexa hosted package

Returns the string representation of the model

#### **Submodules**

to str()

**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,
                                                                                      time=None)
    Bases: object
        Parameters
             • repository ((optional) ask_smapi_model.v1.skill.alexa_hosted.
              hosted_skill_repository_info.HostedSkillRepositoryInfo) -
                           ((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()
    Bases: object
    Customer's permission about Hosted skill features.
```

**Parameters** 

```
• permission ((optional) ask_smapi_model.v1.skill.alexa_hosted.
               hosted_skill_permission_type.HostedSkillPermissionType) -
                           ((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,
    SOURCE 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.alexa hosted.hosted skill permission type module
class ask smapi model.v1.skill.alexa hosted.hosted skill permission type.HostedSkillPermiss
    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.alexa hosted.hosted skill repository module
class ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_repository.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.alexa_hosted.hosted_skill_repository_credentials module
class ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_repository_credentials.HostedSkill.
    Bases: object
        Parameters
              • username ((optional) str) - AWS Access Key ID used to access hosted skill repos-
              • 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':
                                                                                                    'us
    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.alexa hosted.hosted skill repository credentials list module
class ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_repository_credentials_list.Hosted
    Bases: object
    defines the structure for the hosted skill repository credentials response
         Parameters repository_credentials
                                                     ((optional) ask_smapi_model.
            v1.skill.alexa_hosted.hosted_skill_repository_credentials.
            HostedSkillRepositoryCredentials) -
    attribute_map = {'repository_credentials': 'repositoryCredentials'}
    deserialized_types = {'repository_credentials': 'ask_smapi_model.v1.skill.alexa_hoste
```

```
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_repository_credentials_request module
class ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_repository_credentials_request.Hosted_skill_repository_credentials_request.Hosted_skill_repository_credentials_request.Hosted_skill_repository_credentials_request.Hosted_skill_repository_credentials_request.Hosted_skill_repository_credentials_request.Hosted_skill_repository_credentials_request.Hosted_skill_repository_credentials_request.Hosted_skill_repository_credentials_request.Hosted_skill_repository_credentials_request.Hosted_skill_repository_credentials_request.Hosted_skill_repository_credentials_request.Hosted_skill_repository_credentials_request.Hosted_skill_repository_credentials_request.Hosted_skill_repository_credentials_request.Hosted_skill_repository_credentials_request.Hosted_skill_repository_credentials_request.Hosted_skill_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials_repository_credentials
           Bases: object
                                                                                                                        ((optional) ask_smapi_model.v1.
                     Parameters repository
                              skill.alexa_hosted.hosted_skill_repository_info.
                             HostedSkillRepositoryInfo) -
           attribute_map = {'repository': 'repository'}
           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 repository info module
class ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_repository_info.HostedSkillReposit
           Bases: object
           Alexa Hosted Skill's Repository Information
                     Parameters
                                 • url((optional) str)-
                                 · object_type
                                                                                                        ((optional) ask_smapi_model.v1.skill.
                                     alexa_hosted.hosted_skill_repository.HostedSkillRepository)
           attribute_map = {'object_type': 'type', 'url':
           deserialized_types = {'object_type': 'ask_smapi_model.v1.skill.alexa_hosted.hosted_sk
           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\_runtime module

```
class ask_smapi_model.v1.skill.alexa_hosted.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()
```

# ask smapi model.v1.skill.beta test package

# **Subpackages**

# ask\_smapi\_model.v1.skill.beta\_test.testers package

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.testers.invitation\_status module

Returns the string representation of the model

```
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()
```

```
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(emails)
                                                                                                    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 al-
               lowed 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', 'invi
    deserialized_types = {'association_date': 'datetime', 'email_id': 'str', 'invitation
    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.tes
    supports_multiple_types = False
    to dict()
         Returns the model properties as a dict
```

```
to str()
```

#### **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, feed-
                                                                       back email=None,
                                                                       invita-
                                                                       tion_url=None, in-
                                                                       vites_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
- invites\_remaining ((optional) float) Remaining invite count for the beta

```
attribute_map = {'expiry_date': 'expiryDate', 'feedback_email': 'feedbackEmail', 'in
deserialized_types = {'expiry_date': 'datetime', 'feedback_email': 'str', 'invitatio
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(
    Bases: object
        Parameters
             • id ((optional) str) - Certification Id for the skill
                          ((optional) ask_smapi_model.v1.skill.certification.
               certification status. Certification Status) -
             • 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) -
                          ((optional) ask smapi model.v1.skill.certification.
               certification_result.CertificationResult) -
    attribute_map = {'id': 'id', 'result': 'result', 'review_tracking_info':
    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()

to str()

Returns the model properties as a dict

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=
                                                                                                    tus:
                                                                                                    skil
                                                                                                    re-
                                                                                                    viev
    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.
                           ((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_su
    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()
```

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Returns the string representation of the model

# ask\_smapi\_model.v1.skill.certification.distribution\_info module

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'
deserialized_types = {'publication_failures': 'list[ask_smapi_model.v1.skill.certific
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.estimation\_update module

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': 'originalEstimatedComplet
deserialized_types = {'original_estimated_completion_timestamp': 'datetime', 'reason'
supports_multiple_types = False
to_dict()
```

Returns the model properties as a dict

```
to str()
```

## 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 is Truncated 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

– 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.skil
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
```

1 1

to\_str()

Returns the string representation of the model

#### ask smapi model.v1.skill.certification.publication failure module

tries=Noi

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

timation up

Bases: object

Structure for review tracking information of the skill.

Returns the string representation of the model

#### **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', 'estimated
deserialized_types = {'actual_completion_timestamp': 'datetime', 'estimated_completion
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
```

# ask smapi model.v1.skill.certification.review tracking info summary module

 $\textbf{class} \ \, \texttt{ask\_smapi\_model.v1.skill.certification.review\_tracking\_info\_summary.} \\ \textbf{ReviewTrackingInstitute} \\ \text{ask\_smapi\_model.v1.skill.certification.review\_tracking\_info\_summary.} \\ \textbf{ReviewTrackingInstitute} \\ \text{ask\_smapi\_model.v1.skill.certification.review\_tracking\_info\_summary.} \\ \text{ReviewTrackingInstitute} \\ \text{ask\_smapi\_model.v1.skill.certification.} \\ \text{ask\_smapi\_model.v2.skill.certification.} \\ \text{ask\_smapi\_model.v3.skill.certification.} \\ \text{ask\_smapi$ 

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', 'estimat
deserialized_types = {'actual_completion_timestamp': 'datetime', 'estimated_completio
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

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,
                                                                             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,
                                                                           confir-
                                                              mation status=None,
                                                              slots=None)
    Bases: object
        Parameters
             • name((optional) str)-
             • confirmation_status
                                         ((optional) ask_smapi_model.v1.skill.
               evaluations.confirmation_status_type.ConfirmationStatusType)
```

((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
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.multi turn module

Returns the string representation of the model

```
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.'
supports_multiple_types = False
to dict()
   Returns the model properties as a dict
to_str()
```

# ask smapi model.v1.skill.evaluations.profile nlu request module

#### **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

considered in

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 1P 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()
```

## 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
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.resolutions per authority items module

class ask\_smapi\_model.v1.skill.evaluations.resolutions\_per\_authority\_items.ResolutionsPerAv

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 1) - 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.evalua
    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.ResolutionsPer
    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_a
    supports_multiple_types = False
    to_dict()
         Returns the model properties as a dict
         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.Resolutions
    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.Resolutions
    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':
    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, con-
                                                              firmation status=None, resolu-
                                                              tions=None)
    Bases: object
         Parameters
              • name((optional) str)-
              • value((optional) str)-
                                            ((optional) ask_smapi_model.v1.skill.

    confirmation status

                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()
```

## ask smapi model.v1.skill.evaluations.slot resolutions module

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()
```

ask smapi model.v1.skill.history package

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.history.confidence module

```
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.
                                    ((optional) ask_smapi_model.v1.skill.history.
         Parameters name
             dialog act name.DialogActName) -
     attribute map = {'name': 'name'}
     deserialized_types = { 'name': 'ask_smapi_model.v1.skill.history.dialog_act_name.Dialo
     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) *
```

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`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
```

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,
                                                                               confi-
                                                            dence=None, slots=None)
    Bases: object
```

Provides the intent name, slots and confidence of the intent used in this interaction.

#### **Parameters**

to str()

```
• 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.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.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
        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,
                                                                            in-
                                                                            tent=None,
                                                                            interac-
                                                                            tion_type=None,
                                                                            lo-
                                                                            cale=None.
                                                                            publica-
                                                                            tion_status=None,
                                                                            stage=None,
                                                                            utter-
                                                                            ance 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) -
                                 ((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

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.skil
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

recordCount = 'recordCount'

stage = 'stage'

```
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.SortFieldForInter
Bases: enum.Enum

Allowed enum values: [recordCount, intent_name, intent_confidence_bin, stage, dialogAct_name, locale, utter-
anceText, publicationStatus, interactionType]

dialogAct_name = 'dialogAct.name'
intent_confidence_bin = 'intent.confidence.bin'
intent_name = 'intent.name'
interactionType = 'interactionType'
locale = 'locale'
publicationStatus = 'publicationStatus'
```

```
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

 $\textbf{class} \ \, \texttt{ask\_smapi\_model.v1.skill.interaction\_model.catalog.catalog\_definition\_output.} \\ \textbf{Catalog} \\ \text{locality} \\ \textbf{class} \ \, \texttt{ask\_smapi\_model.v1.skill.interaction\_model.catalog\_definition\_output.} \\ \textbf{Catalog} \\ \textbf{class} \ \, \texttt{ask\_smapi\_model.v1.skill.interaction\_model.catalog\_definition\_output.} \\ \textbf{class} \ \, \texttt{ask\_smapi\_model.v2.skill.interaction\_model.catalog\_definition\_output.} \\ \textbf{class} \ \, \texttt{ask\_smapi\_model.catalog\_definition\_output.} \\ \textbf{class} \ \, \texttt{ask\_smapi\_model.catalog\_definition\_output$ 

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_versi
deserialized_types = {'catalog': 'ask_smapi_model.v1.skill.interaction_model.catalog.
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
```

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=
                                                                                                     scrip-
                                                                                                     tion=1
    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=No
                                                                                                  de-
                                                                                                  scrip-
                                                                                                  tion=Non
    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-
                                                                                               log id=Non
                                                                                               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_smap
    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()
```

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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_u,
    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.CatalogStatus
    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
         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(catalog.definition_data.DefinitionData(catalog.definitionData)
                                                                                                         dor
    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.
                                     ((optional) list[ask_smapi_model.v1.skill.
              errors
               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
```

Parameters

List of catalog versions of a skill for the vendor.

Bases: object

```
• 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=
    Bases: object
    Catalog update request object.
        Parameters
              • name ((optional) str) - The catalog name.
              • description ((optional) str) - The catalog description with a 255 character max-
    attribute_map = {'description': 'description', '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
```

description=1

# 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(descri
    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_trum
                                                                                                 next_te
                                                                                                 tal_co
                                                                                                 links=
                                                                                                 val-
                                                                                                 ues=N
    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':
    deserialized_types = {'is_truncated': 'bool', 'links': 'ask_smapi_model.v1.links.Lin
    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.CatalogVersion
    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': 'vers
    deserialized_types = {'description': 'str', 'source': 'ask_smapi_model.v1.skill.inte
    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=
                                                                                               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=No
                                                                                              skill mod
                                                                                              is_trunca
                                                                                              next_toke
    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': 'n
    deserialized_types = {'is_truncated': 'bool', 'links': 'ask_smapi_model.v1.links.Lin
    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
```

10.1. Subpackages

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Bases: object

**Parameters** 

The value schema in type object of interaction model.

```
• 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 mod
    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=Non
                                                                                          de-
                                                                                          scrip-
                                                                                          tion=None)
    Bases: object
    Catalog version specific data.
        Parameters
                                          ((optional) ask_smapi_model.v1.skill.
             • source
               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.inte
```

tion=Non links=No

```
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

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', 'lin
deserialized_types = {'creation_time': 'str', 'description': 'str', 'links': 'ask_s:
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.CatalogValueSupplie
                       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.DelegationStrategy
    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_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.dialog_intents module
class ask_smapi_model.v1.skill.interaction_model.dialog_intents.DialogIntents(name=None,
                                                                                          e-
                                                                                          ga-
                                                                                          tion_strategy=Nor
                                                                                          slots=None,
                                                                                          con-
                                                                                          fir-
                                                                                          ma-
                                                                                          tion_required=No.
                                                                                          prompts=None)
    Bases: object
         Parameters
              • name ((optional) str) - Name of the intent that has a dialog specification.
                                                   ((optional) ask smapi model.v1.

    delegation strategy

                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.
                                            ((optional) ask_smapi_model.v1.skill.
              • prompts
                interaction_model.prompts.Prompts)-
    attribute_map = {'confirmation_required': 'confirmationRequired', 'delegation_strateg
    deserialized_types = {'confirmation_required': 'bool', 'delegation_strategy':
                                                                                                  '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.interaction model.dialog intents prompts module

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

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
```

tions=Non

## ask smapi model.v1.skill.interaction model.dialog slot items module

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_required'
deserialized_types = {'confirmation_required': 'bool', 'elicitation_required': 'bool
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
```

## ask\_smapi\_model.v1.skill.interaction\_model.has\_entity\_resolution\_match module

Returns the string representation of the model

The hasEntityResolutionMatch would allow Alexa to trigger a re-prompt when the status produced by ER is "ER\_SUCCESS\_NO\_MATCH".

• version((optional) str)-

```
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.
                                      ((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
```

```
• description ((optional) str)-
             • interaction model
                                                ((optional) ask_smapi_model.v1.
               skill.interaction model.interaction model schema.
               InteractionModelSchema) -
    attribute_map = {'description': 'description', 'interaction_model': 'interactionMode
    deserialized_types = {'description': 'str', 'interaction_model': 'ask_smapi_model.v1
    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.InteractionModels
    Bases: object
        Parameters
             language_model
                                         ((optional) ask_smapi_model.v1.skill.
               interaction_model.language_model.LanguageModel) -
                                         ((optional) ask_smapi_model.v1.skill.
               interaction_model.dialog.Dialog) -
                                    ((optional) list[ask_smapi_model.v1.skill.
             • prompts
               interaction_model.prompt.Prompt]) - List of prompts.
    attribute_map = {'dialog': 'dialog', 'language_model': 'languageModel', 'prompts':
    deserialized_types = {'dialog': 'ask_smapi_model.v1.skill.interaction_model.dialog.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.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

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

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

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

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

```
 \begin{array}{ll} \textbf{Bases:} & \textit{ask\_smapi\_model.v1.skill.interaction\_model.slot\_validation.} \\ \textit{SlotValidation} \end{array}
```

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()
```

# ask smapi model.v1.skill.interaction model.is not in set module

Returns the string representation of the model

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.

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.inte
    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.prom
    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,
                                                                                            ject_type=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.

```
• 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', 'object_type': 'type', 'samples': 'samples'}
    deserialized_types = {'name': 'str', 'object_type': 'str', 'samples': '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.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.
                                       ((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': 'value
    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=No
                                                                                              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. is-LessThan,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,
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':
discriminator_value_class_map = { 'hasEntityResolutionMatch': 'ask_smapi_model.v1.skil
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,
                                                                                        sion=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':
    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

terfaces=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&gt; 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. ((optional) ask\_smapi\_model.v1.skill.manifest. version 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.AlexaPresentation 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 m supports\_multiple\_types = False to\_dict() Returns the model properties as a dict 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,
                                                                         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.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.connections payload module
class ask_smapi_model.v1.skill.manifest.connections_payload.ConnectionsPayload(object_type=Nor
                                                                                          sion=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':
    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,
                                                                         inter-
                                                                         faces=None.
                                                                         tasks=None,
                                                                         connec-
                                                                         tions=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&gt;
                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.
                           ((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_connec
    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,
                                                                                         vides=None)
    Bases: object
    Supported connections.
```

#### **Parameters**

to str()

```
• 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
```

Returns the string representation of the model

# ask\_smapi\_model.v1.skill.manifest.custom\_interface module

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_ver
min-
i-
mum_apml_version=N
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 manifes 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) -
                                                       ((optional) ask_smapi_model.
              minimum_apml_version
                v1.skill.manifest.display_interface_apml_version.
                DisplayInterfaceApmlVersion) -
                                                       'minimumApmlVersion', 'minimum_template_vers
    attribute_map = {'minimum_apml_version':
    deserialized_types = {'minimum_apml_version':
                                                            'ask_smapi_model.v1.skill.manifest.disp
     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.DisplayInterfaceApm
    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 her 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 Display interface 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

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'

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AQ = 'AQ'

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BL = 'BL'

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- BZ = 'BZ'
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- CH = 'CH'
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- CN = 'CN'
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- DK = 'DK'
- DM = 'DM'
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- DZ = 'DZ'
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- EG = 'EG'
- EH = 'EH'

- ER = 'ER'
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- IE = 'IE'

- IL = 'IL'
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- IN = 'IN'
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- IQ = 'IQ'
- IS = 'IS'
- IT = 'IT'
- JE = 'JE'
- JM = 'JM'
- JO = 'JO'
- JP = 'JP'
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- 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'
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- LY = 'LY'
- MA = 'MA'
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- ME = 'ME'

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MG = 'MG'

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MN = 'MN'

MO = 'MO'

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MV = 'MV'

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MX = 'MX'

MY = 'MY'

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NG = 'NG'

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NL = 'NL'

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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'
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TL = 'TL'
TM = 'TM'
TN = 'TN'
TO = 'TO'
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TV = 'TV'
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TZ = 'TZ'
UA = 'UA'
UG = 'UG'
UM = 'UM'
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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.skill.manifest.distribution mode module

```
\begin{tabular}{ll} \textbf{class} & ask\_smapi\_model.v1.skill.manifest.distribution\_mode.\textbf{DistributionMode} \\ & Bases: \verb"enum".Enum" \\ \end{tabular}
```

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

#### 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,
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                                                         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,
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Legacy DeviceNotification DeleteNotificationSucceeded, Legacy DeviceNotification NotificationEnteredBackground,
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Legacy DeviceNotification NotificationStopped.
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                                                 Legacy DeviceNotification SetNotificationSucceeded,
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Legacy_ExternalMediaPlayer_Error, Legacy_ExternalMediaPlayer_Event, Legacy_ExternalMediaPlayer_Login,
Legacy_ExternalMediaPlayer_Logout,
                                                Legacy_ExternalMediaPlayer_ReportDiscoveredPlayers,
Legacy_ExternalMediaPlayer_RequestToken,
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Legacy_HomeAutoWifiController_SsdpDiscoveryFinished, Legacy_HomeAutoWifiController_SsdpServiceDiscovered,
Legacy_HomeAutoWifiController_SsdpServiceTerminated,
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Legacy_ListModel_DeleteItemRequest,
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Legacy ListModel GetPageByTokenRequest,
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Legacy ListModel UpdateItemRequest,
Legacy ListRenderer GetListPageByToken,
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Legacy MediaGrouping GroupSyncEvent,
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                                                               Legacy MediaPlayer PlaybackStarted,
Legacy MediaPlayer PlaybackStopped,
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Legacy PlaybackController NextCommand,
                                                         Legacy PlaybackController PauseCommand,
Legacy_PlaybackController_PlayCommand,
                                                       Legacy_PlaybackController_PreviousCommand,
Legacy_PlaybackController_ToggleCommand,
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Legacy_PlaylistController_Response,
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Legacy_Presentation_PresentationUserEvent,
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Legacy_SconeRemoteControl_PlayPause,
                                                              Legacy_SconeRemoteControl_Previous,
Legacy SconeRemoteControl VolumeDown,
                                                            Legacy SconeRemoteControl 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_UDPController_BroadcastResponse, Lo-
calApplication Alexa Translation LiveTranslation Event,
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LocalApplication AlexaPlatformTestSpeechlet Event,
                                                      Local Application Alexa Vision Event,
                                       LocalApplication AvaPhysicalShopping Event,
calApplication AlexaVoiceLayer Event,
                                                                                      LocalAppli-
cation Calendar Event,
                         Local Application Closet Event,
                                                           Local Application Communications Event,
LocalApplication_DeviceMessaging_Event,
                                            LocalApplication_DigitalDash_Event,
                                                                                    Local Applica-
tion_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,
                                                                                              Lo-
calApplication_MShop_Event,
                                    LocalApplication_MShopPurchasing_Event,
                                                                                    Local Applica-
tion_NotificationsApp_Event,
                                LocalApplication_Photos_Event,
                                                                    LocalApplication_Sentry_Event,
LocalApplication_SipClient_Event,
                                        LocalApplication_SipUserAgent_Event,
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tion todoRenderer Event,
                               Local Application Video Experience Service Event,
                                                                                    Local Applica-
tion_WebVideoPlayer_Event,
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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,
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                                                  Alexa_Presentation_HTML_LifecycleStateChanged,
Alexa_Presentation_PresentationDismissed, AudioPlayer_PlaybackFailed, AudioPlayer_PlaybackFinished,
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AudioPlayer_PlaybackNearlyFinished,
                                      AudioPlayer_PlaybackStarted,
CardRenderer DisplayContentFinished,
                                             CardRenderer_DisplayContentStarted,
                                                                                        CardRen-
                                    CardRenderer_ReadContentStarted,
derer_ReadContentFinished,
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troller_EventsReceived,
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                                                             DeviceSetup_SetupCompleted,
                                                                                             Dis-
play_ElementSelected,
                         Display_UserEvent,
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nessSessionController_FitnessSessionError,
                                             FitnessSessionController_FitnessSessionPaused,
                                                                                             Fit-
nessSessionController FitnessSessionResumed,
                                                      FitnessSessionController FitnessSessionStarted,
GameEngine_InputHandlerEvent,
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                                                                                   MessagingCon-
troller UpdateConversationsStatus,
                                      MessagingController UpdateMessagesStatusRequest,
                                                                                            Mes-
sagingController_UpdateSendMessageStatusRequest,
                                                          MessagingController_UploadConversations,
PlaybackController NextCommandIssued,
                                           PlaybackController PauseCommandIssued,
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Controller_PlayCommandIssued,
                                     PlaybackController_PreviousCommandIssued,
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troller RequestEffectChangeRequest,
                                       EffectsController RequestGuiChangeRequest,
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```

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Alexa\_Camera\_VideoCaptureController\_CancelCaptureFinished = 'Alexa.Camera.VideoCapture

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FitnessSessionController_FitnessSessionResumed = 'FitnessSessionController.FitnessSess
```

```
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Legacy_AudioPlayer_PlaybackIdle = 'Legacy.AudioPlayer.PlaybackIdle'
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Legacy_AuxController_PluggedStateChanged = 'Legacy.AuxController.PluggedStateChanged'
```

```
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Legacy BluetoothNetwork DeviceDisconnectedSuccess = 'Legacy.BluetoothNetwork.DeviceDis
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Legacy_BluetoothNetwork_DeviceUnpairSuccess = 'Legacy.BluetoothNetwork.DeviceUnpairSuc
Legacy_BluetoothNetwork_EnterPairingModeFailure = 'Legacy.BluetoothNetwork_EnterPairing
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Legacy BluetoothNetwork SetDeviceCategoriesSucceeded = 'Legacy.BluetoothNetwork.SetDev
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Legacy_DeviceNotification_DeleteNotificationSucceeded = 'Legacy.DeviceNotification.Del
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Legacy_DeviceNotification_NotificationEnteredForground = 'Legacy.DeviceNotification.No
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Legacy_DeviceNotification_NotificationStopped = 'Legacy.DeviceNotification.Notificatio
Legacy_DeviceNotification_NotificationSync = 'Legacy.DeviceNotification.NotificationSy
Legacy_DeviceNotification_SetNotificationFailed = 'Legacy.DeviceNotification.SetNotifi
Legacy_DeviceNotification_SetNotificationSucceeded = 'Legacy.DeviceNotification.SetNot
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Legacy_ExternalMediaPlayer_Error = 'Legacy.ExternalMediaPlayer.Error'
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Legacy_ExternalMediaPlayer_RequestToken = 'Legacy.ExternalMediaPlayer.RequestToken'
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Legacy_FavoritesController_Response = 'Legacy.FavoritesController.Response'
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Legacy HomeAutoWifiController SsdpServiceTerminated = 'Legacy.HomeAutoWifiController.S
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Legacy MediaPlayer PlaybackStarted = 'Legacy.MediaPlayer.PlaybackStarted'
Legacy_MediaPlayer_PlaybackStopped = 'Legacy.MediaPlayer.PlaybackStopped'
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```

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Legacy_SconeRemoteControl_PlayPause = 'Legacy.SconeRemoteControl.PlayPause'
Legacy_SconeRemoteControl_Previous = 'Legacy.SconeRemoteControl.Previous'
Legacy_SconeRemoteControl_VolumeDown = 'Legacy.SconeRemoteControl.VolumeDown'
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```

```
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Local Application Knight Home Things To Try Event = 'Local Application Knight Home Things To Try
LocalApplication KnightHome Event = 'LocalApplication.KnightHome.Event'
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LocalApplication_SipClient_Event = 'LocalApplication.SipClient.Event'
LocalApplication_SipUserAgent_Event = 'LocalApplication.SipUserAgent.Event'
LocalApplication VideoExperienceService Event = 'LocalApplication.VideoExperienceServi
LocalApplication_WebVideoPlayer_Event = 'LocalApplication.WebVideoPlayer.Event'
LocalApplication_todoRenderer_Event = 'LocalApplication.todoRenderer.Event'
MessagingController_UpdateConversationsStatus = 'MessagingController.UpdateConversatio
MessagingController_UpdateMessagesStatusRequest = 'MessagingController.UpdateMessagesS
MessagingController_UpdateSendMessageStatusRequest = 'MessagingController.UpdateSendMe
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
         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.localiz
    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.FlashBriefingContentTy
    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, PRO-
    DUCTIVITY_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.FlashBriefingUpdate
    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.qadqet_controller_interface.GadqetControllerInterface.
    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':
    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.qadqet support.GadqetSupport
    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':
    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
                               ((optional) dict(str, ask_smapi_model.v1.skill.

    regions

               manifest.region.Region)) - Contains an array of the supported <region&gt;
               Objects.

    endpoint

                                ((optional) ask_smapi_model.v1.skill.manifest.
               skill_manifest_endpoint.SkillManifestEndpoint) -
                                           ((optional) ask_smapi_model.v1.skill.
              protocol_version
               manifest.health_protocol_version.HealthProtocolVersion) -
                                ((optional) ask smapi model.v1.skill.manifest.
               health_interface.HealthInterface) -
    attribute_map = {'endpoint': 'endpoint', 'interfaces': 'interfaces', 'protocol_versi
    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.health interface module
class ask_smapi_model.v1.skill.manifest.health_interface.HealthInterface(namespace=None,
                                                                                       sion=None,
                                                                                       re-
                                                                                       quests=None,
                                                                                       lo-
                                                                                       cales=None)
    Bases: object
         Parameters
              • namespace ((optional) str) - Name of the interface.
                                  ((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':
                                                                                                    'reque
    deserialized_types = {'locales': 'dict(str, ask_smapi_model.v1.skill.manifest.localiz
    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 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. alexa presentation apl interface. Alexa Presentation Apl Interface,

ask\_smapi\_model.v1.skill.manifest.custom\_interface.CustomInterface,

CUSTOM\_INTERFACE:

```
ALEXA_PRESENTATION_HTML: ask_smapi_model.v1.skill.manifest.
    alexa_presentation_html_interface.AlexaPresentationHtmlInterface,
    AUDIO PLAYER:
    ask_smapi_model.v1.skill.manifest.audio_interface.AudioInterface,
    GAME_ENGINE: ask_smapi_model.v1.skill.manifest.game_engine_interface.
    GameEngineInterface,
    RENDER TEMPLATE:
    ask_smapi_model.v1.skill.manifest.display_interface.DisplayInterface,
    GADGET_CONTROLLER: ask_smapi_model.v1.skill.manifest.
    gadget_controller_interface.GadgetControllerInterface,
    VIDEO_APP:
    ask_smapi_model.v1.skill.manifest.video_app_interface.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.LocalizedFlashBriefing
    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.'
    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.LocalizedFlash

### 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': 'ima
deserialized_types = {'content_type': 'ask_smapi_model.v1.skill.manifest.flash_briefi
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
```

Returns the string representation of the model

# ask smapi model.v1.skill.manifest.localized health info module

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

# ask\_smapi\_model.v1.skill.manifest.localized\_music\_info module

Returns the string representation of the model

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_deserialized_types = {'aliases': 'list[ask_smapi_model.v1.skill.manifest.music_alias.isupports_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 (require
                                                                                                    max_g
                                                                                                    num_p
                                                                                                    num_p
    Bases: object
    Defines the structure for gadget buttons support in the skill manifest.
         Parameters

    requirement

                                 ((optional) ask_smapi_model.v1.skill.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':
    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

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 & lt;region> 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
```

Returns the string representation of the model ask smapi model.v1.skill.manifest.music capability module

#### Parameters

Bases: object

- 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.M
    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,
                                                                                    ver-
                                                                                   sion=None,
                                                                                   re-
                                                                                   quests=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
         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
         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.
                           [payments_autopay_consent, alexa_async_event_write, avs_distributed_audio,
     Allowed enum values:
                                              alexa_devices_all_address_country_and_postal_code_read,
     alexa_devices_all_address_full_read,
     alexa devices all geolocation read,
                                          alexa_health_profile_write,
                                                                       alexa household lists read,
                                  alexa_personality_explicit_read,
     alexa household lists write,
                                                                   alexa_personality_explicit_write,
                                   alexa profile email read,
                                                                 alexa profile mobile number read,
     alexa profile name read,
```

```
alexa_profile_given_name_read, alexa_customer_id_read, alexa_person_id_read, alexa_raw_person_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_skill_products_entitlements,
                                                      alexa_skill_proactive_enablement,
alexa music cast,
                          alexa_authenticate_2_optional, alexa_user_experience_guidance_read,
alexa authenticate 2 mandatory,
alexa device id read, alexa device type read]
alexa alerts reminders skill readwrite = 'alexa::alerts:reminders:skill:readwrite'
alexa_alerts_timers_skill_readwrite = 'alexa::alerts:timers:skill:readwrite'
alexa_async_event_write = 'alexa::async_event:write'
alexa_authenticate_2_mandatory = 'alexa::authenticate:2:mandatory'
alexa_authenticate_2_optional = 'alexa::authenticate:2:optional'
alexa_customer_id_read = 'alexa::customer_id:read'
alexa_device_id_read = 'alexa::device_id:read'
alexa_device_type_read = 'alexa::device_type:read'
alexa_devices_all_address_country_and_postal_code_read = 'alexa:devices:all:address:co
alexa_devices_all_address_full_read = 'alexa::devices:all:address:full:read'
alexa_devices_all_geolocation_read = 'alexa::devices:all:geolocation:read'
alexa_devices_all_notifications_urgent_write = 'alexa::devices:all:notifications:urgen
alexa devices all notifications write = 'alexa::devices:all:notifications:write'
alexa_health_profile_write = 'alexa::health:profile:write'
alexa_household_lists_read = 'alexa::household:lists:read'
alexa_household_lists_write = 'alexa::household:lists:write'
alexa music cast = 'alexa::music:cast'
alexa_person_id_read = 'alexa::person_id:read'
alexa_personality_explicit_read = 'alexa::personality:explicit:read'
alexa_personality_explicit_write = 'alexa::personality:explicit:write'
alexa_profile_email_read = 'alexa::profile:email:read'
alexa_profile_given_name_read = 'alexa::profile:given_name:read'
alexa profile mobile number read = 'alexa::profile:mobile number:read'
alexa_profile_name_read = 'alexa::profile:name:read'
alexa_raw_person_id_read = 'alexa::raw_person_id:read'
alexa_skill_cds_monetization = 'alexa::skill:cds:monetization'
alexa_skill_proactive_enablement = 'alexa::skill:proactive_enablement'
alexa_skill_products_entitlements = 'alexa::skill:products:entitlements'
alexa_user_experience_guidance_read = 'alexa::user_experience_guidance: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.
                                 ((optional) ask_smapi_model.v1.skill.manifest.
         Parameters endpoint
            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.Request
    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(manifest).v1.skill.manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill_manifest.skill
                                                                                                                                                                                                                                                                                   pub-
                                                                                                                                                                                                                                                                                   lish-
                                                                                                                                                                                                                                                                                   ing_information=None,
                                                                                                                                                                                                                                                                                   pri-
                                                                                                                                                                                                                                                                                    vacy_and_compliance=None,
                                                                                                                                                                                                                                                                                   events=None,
                                                                                                                                                                                                                                                                                   permis-
                                                                                                                                                                                                                                                                                   sions=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
```

Returns the string representation of the model

to str()

### ask smapi model.v1.skill.manifest.skill manifest apis module

```
class ask_smapi_model.v1.skill.manifest.skill_manifest_apis.SkillManifestApis(flash_briefing=No
                                                                                       tom=None,
                                                                                       smart_home=Non
                                                                                       video=None,
                                                                                       alexa for business
                                                                                       health=None,
                                                                                      house-
                                                                                      hold list=None,
                                                                                      ти-
                                                                                       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) -
                                ((optional) ask_smapi_model.v1.skill.manifest.
               health_apis.HealthApis) -
             • household_list ((optional) ask_smapi_model.v1.skill.manifest.
               house hold list. House Hold List) -
                                ((optional) ask_smapi_model.v1.skill.manifest.
             • music
               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
```

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Bases: object

class ask smapi model.v1.skill.manifest.skill manifest custom task.SkillManifestCustomTask

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 ce
```

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 func-
 tion 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

attribute map = {'manifest': 'manifest'}

```
class ask_smapi_model.v1.skill.manifest.skill_manifest_envelope.SkillManifestEnvelope (manife
    Bases: object
                             ((optional) ask_smapi_model.v1.skill.manifest.
        Parameters manifest
           skill_manifest.SkillManifest)-
```

```
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
                                                                                                pub-
                                                                                                li-
                                                                                                ca-
                                                                                                tions=None,
                                                                                                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 /) -
                                ((optional) dict(str, ask_smapi_model.v1.skill.
                manifest.region.Region)) - Contains an array of the supported <region&gt;
                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.Sk
```

Bases: 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 & Defines the structure for priv

#### **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_
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
```

Returns the string representation of the model

ask\_smapi\_model.v1.skill.manifest.smart\_home\_apis module

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&gt; 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, lo-
                                                                        cales=None, end-
                                                                        point=None, coun-
                                                                        tries=None)
    Bases: object
    Defines the structure for video api of the skill.
         Parameters
                                 ((optional) dict(str, ask_smapi_model.v1.skill.
                manifest.video_region.VideoRegion)) - Defines the structure for region
                information.
                                 ((optional) dict(str, ask_smapi_model.v1.skill.

    locales

                manifest.video_apis_locale.VideoApisLocale)) - Defines the structure
                for the locale specific video api information.
                                  ((optional) ask_smapi_model.v1.skill.manifest.

    endpoint

                lambda endpoint.LambdaEndpoint) -
                                 ((optional) dict(str, ask_smapi_model.v1.skill.

    countries

                manifest.video_country_info.VideoCountryInfo)) - Object that contains
                <country&gt; Objects for each supported country.
    attribute_map = {'countries': 'countries', 'endpoint': 'endpoint', 'locales':
                                                                                                     'loca
    deserialized_types = {'countries': 'dict(str, ask_smapi_model.v1.skill.manifest.video
    supports_multiple_types = False
    to dict()
         Returns the model properties as a dict
    to str()
         Returns the string representation of the model
```

deserialized\_types = {'source\_id': 'str'}

```
ask smapi model.v1.skill.manifest.video apis locale module
class ask_smapi_model.v1.skill.manifest.video_apis_locale.VideoApisLocale(video_provider_targetin,
                                                                                   video_provider_logo_ur
                                                                                   cat-
                                                                                   a-
                                                                                   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
        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'}
```

```
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=N
    Bases: object
    Defines a viewport specification.
         Parameters
                                  ((optional) ask_smapi_model.v1.skill.manifest.
                viewport_mode.ViewportMode) -
                                  ((optional) ask_smapi_model.v1.skill.manifest.
```

viewport\_shape.ViewportShape) -

with this specification.

• min\_width ((optional) int) - Defines the minimum width of viewport that comply

shape=1 min\_wio max wi min\_hei max\_he

- 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

ues=N $next\_te$ 

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': 'times'
```

```
deserialized_types = {'metric': 'str', 'next_token': 'str', 'timestamps':
           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, failed
           ances, 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'
```

'list[dat

```
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
          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.ListPrivate\_distribution\_acc 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 J) - List of PrivateDistributionAccounts. • next\_token((optional) str)attribute\_map = {'links': '\_links', 'next\_token': 'nextToken', 'private\_distribution deserialized\_types = {'links': 'ask\_smapi\_model.v1.links.Links', 'next\_token': 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_statusupports_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

#### ask smapi model.v1.skill.simulations.alexa response module

Returns the string representation of the model

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
    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 (capti
    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 vir-
             tual 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
         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':
    supports_multiple_types = False
    to_dict()
         Returns the model properties as a dict
         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

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_in
                                                                                     skill_execution_in
                                                                                     er-
                                                                                     ror=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(in
                                                                                                 vi
                                                                                                 si
    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.
                             ((optional) ask_smapi_model.v1.skill.simulations.
               simulations_api_response_status.SimulationsApiResponseStatus)
                             ((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.SimulationsApiRe
    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

```
de-
scrip-
tion=None,
cat-
e-
gory=None,
lo-
cale=None,
im-
por-
```

tance=None

status=None)

class ask\_smapi\_model.v1.skill.validations.response\_validation.ResponseValidation(title=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

String that specifies importance of the validation. Possible values are "REQUIRED" and "RECOMMENDED"

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.ResponseValidationSta
Bases: enum.Enum

String that specifies status of the validation. Possible values are "SUCCESSFUL" and "FAILED"

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
```

class ask\_smapi\_model.v1.skill.validations.validations\_api\_request.ValidationsApiRequest (lo

# ask\_smapi\_model.v1.skill.validations.validations\_api\_request module

```
Bases: object
    Parameters locales((optional) list[str])-
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.ValidationsApiRe

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': 'isupports_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.ValidationsApiRo
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, er-
                                                              rors=None)
     Bases: object
     Describes the status of a build step.
         Parameters
```

attribute\_map = {'errors': 'errors', 'name': 'name', 'status': 'status'}
deserialized\_types = {'errors': 'list[ask\_smapi\_model.v1.skill.standardized\_error.Sta

• status((optional) ask smapi model.v1.skill.status.Status) -

((optional) ask\_smapi\_model.v1.skill.build\_step\_name.

((optional) list[ask\_smapi\_model.v1.skill.

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standardized\_error.StandardizedError])-

name

errors

BuildStepName) -

```
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.
                        [DIALOG_MODEL_BUILD, LANGUAGE_MODEL_QUICK_BUILD, LAN-
    Allowed enum values:
    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.
                                ((optional) ask_smapi_model.v1.skill.manifest.

    manifest

               skill_manifest.SkillManifest)-
                           ((optional) ask_smapi_model.v1.skill.alexa_hosted.
               hosting_configuration.HostingConfiguration) -
    attribute_map = {'hosting': 'hosting', 'manifest': 'manifest', 'vendor_id':
    deserialized_types = {'hosting': 'ask_smapi_model.v1.skill.alexa_hosted.hosting_confi
    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.Export
    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,
                                                                                   lo-
                                                                                   ca-
                                                                                   tion=None,
                                                                                   pires_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 taq': 'eTaq', '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
                                           ((optional) ask_smapi_model.v1.skill.
               image_dimension.ImageDimension) -
                              ((optional) ask_smapi_model.v1.skill.image_size.

    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':
    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.
                        ((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) -
                                     ((optional) list[ask_smapi_model.v1.skill.
              • errors
               standardized error.StandardizedError])-
                                     ((optional) list[ask_smapi_model.v1.skill.

    warnings

               standardized_error.StandardizedError])-
                                           ((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 taq': 'eTaq', '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. Incase of null, object or array
                the value field would be null or not present. Incase of string, boolean or integer dataType 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
class ask_smapi_model.v1.skill.interface_definition.InterfaceDefinition(is_global=None,
                                                                                      10-
                                                                                      cales=None.
                                                                                      in-
                                                                                      tents=None)
    Bases: object
```

Interface related objects.

```
Parameters
```

```
• is_global ((optional) bool) - Whether this interface is available in all supported locales.
```

```
• locales ((optional) list[str]) - The locales of the interface.
```

```
• intents ((optional) list[ask_smapi_model.v1.skill. interface intent.InterfaceIntent]) - The intents in the interface.
```

```
attribute_map = {'intents': 'intents', 'is_global': 'isGlobal', 'locales': 'locales
deserialized_types = {'intents': 'list[ask_smapi_model.v1.skill.interface_intent.Inte
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\_intent module

Bases: object

#### **Parameters**

- is\_extensible ((optional) bool) Whether the intent is extensible.
- name ((optional) str) Name of the intent.
- is\_required ((optional) bool) Whether the intent is required in the interface.

```
attribute_map = {'is_extensible': 'isExtensible', 'is_required': 'isRequired', 'name
deserialized_types = {'is_extensible': 'bool', 'is_required': 'bool', '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.last\_update\_request module

# ask\_smapi\_model.v1.skill.list\_skill\_response module

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': 'n
deserialized_types = {'is_truncated': 'bool', 'links': 'ask_smapi_model.v1.links.Lin
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
```

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.

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```
TEST SKILL,
    Allowed
               enum
                       values:
                                                   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,
                                                                                      tus=None,
                                                                                      ac-
                                                                                      tion=None,
                                                                                      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) -
                                    ((optional) list[ask_smapi_model.v1.skill.
               standardized error.StandardizedError])-
                                    ((optional) list[ask_smapi_model.v1.skill.

    warnings

               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, ROLL-
    BACK FAILED]
    FAILED = 'FAILED'
    IN_PROGRESS = 'IN_PROGRESS'
    ROLLBACK_FAILED = 'ROLLBACK_FAILED'
    ROLLBACK_SUCCEEDED = 'ROLLBACK_SUCCEEDED'
    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

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

custom = 'custom'

flashBriefing = 'flashBriefing'

```
class ask_smapi_model.v1.skill.skill_summary.SkillSummary(skill_id=None,
                                                                      apis=None,
                                                                                     publi-
                                                                      cation_status=None,
                                                                      last_updated=None,
                                                                      name_by_locale=None,
                                                                      asin=None,
                                                                      links=None)
     Bases: object
     Information about the skills.
         Parameters
               • skill_id((optional) str)-
                                        ((optional) list[ask_smapi_model.v1.skill.
               • apis
                skill summary apis. Skill Summary Apis 1) - List of APIs currently imple-
                mented 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
               • 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.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.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, alexaForBusi-
     ness]
     alexaForBusiness = 'alexaForBusiness'
```

```
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=Non
                                                                                              gions=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_cer
     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(code=None,
                                                                                   mes-
                                                                                   sage=None,
                                                                                   valida-
                                                                                   tion_details=None)
     Bases: object
     Standardized structure which wraps machine parsable and human readable information about an error.
```

**Parameters** 

```
• code ((optional) ask_smapi_model.v1.skill. standardized_error_code.StandardizedErrorCode) - Standardized structure which wraps machine parsable and human readable information about an error.
```

- message ((optional) str) A standardized, human readable message generated from the error code and validation details in ViolationStructure by the AskStandardized-ErrorUtil library.
- validation\_details ((optional) ask\_smapi\_model.v1.skill. validation details.ValidationDetails)-

```
attribute_map = {'code': 'code', 'message': 'message', 'validation_details': 'valid
deserialized_types = {'code': 'ask_smapi_model.v1.skill.standardized_error_code.Stand
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

List of standardized error codes

RESOURCE\_NOT\_FOUND, Allowed enum values: [INVALID\_DATA\_TYPE, IN-INVALID\_IMAGE\_ATTRIBUTES, DENIED\_FEATURE\_ACCESS, VALID\_CONTENT\_TYPE, INVALID URL DOMAIN, INVALID URL FORMAT, UNEXPECTED PROPERTY, MISS-UNEXPECTED\_EMPTY\_OBJECT, INVALID\_ARRAY\_SIZE, ING\_REQUIRED\_PROPERTY, DU-PLICATE\_ARRAY\_ITEMS, INVALID\_INTEGER\_VALUE, INVALID\_STRING\_LENGTH, IN-VALID\_ENUM\_VALUE, INVALID\_STRING\_PATTERN, INCONSISTENT\_ENDPOINTS, MU-TUALLY\_EXCLUSIVE\_ARRAY\_ITEMS, EXPECTED\_RELATED\_INSTANCE, CONFLICT-ING\_INSTANCES, EXPECTED\_COMPLIANCE\_AGREEMENT]

```
CONFLICTING_INSTANCES = 'CONFLICTING_INSTANCES'
```

DENIED FEATURE ACCESS = 'DENIED FEATURE ACCESS'

DUPLICATE\_ARRAY\_ITEMS = 'DUPLICATE\_ARRAY\_ITEMS'

EXPECTED COMPLIANCE AGREEMENT = 'EXPECTED COMPLIANCE AGREEMENT'

EXPECTED\_RELATED\_INSTANCE = 'EXPECTED\_RELATED\_INSTANCE'

INCONSISTENT\_ENDPOINTS = 'INCONSISTENT\_ENDPOINTS'

INVALID\_ARRAY\_SIZE = 'INVALID\_ARRAY\_SIZE'

INVALID\_CONTENT\_TYPE = 'INVALID\_CONTENT\_TYPE'

INVALID\_DATA\_TYPE = 'INVALID\_DATA\_TYPE'

INVALID\_ENUM\_VALUE = 'INVALID\_ENUM\_VALUE'

INVALID\_IMAGE\_ATTRIBUTES = 'INVALID\_IMAGE\_ATTRIBUTES'

INVALID INTEGER VALUE = 'INVALID INTEGER VALUE'

INVALID\_STRING\_LENGTH = 'INVALID\_STRING\_LENGTH'

```
INVALID STRING PATTERN = 'INVALID STRING PATTERN'
    INVALID_URL_DOMAIN = 'INVALID_URL_DOMAIN'
    INVALID_URL_FORMAT = 'INVALID_URL_FORMAT'
    MISSING_REQUIRED_PROPERTY = 'MISSING_REQUIRED_PROPERTY'
    MUTUALLY EXCLUSIVE ARRAY ITEMS = 'MUTUALLY EXCLUSIVE ARRAY ITEMS'
    RESOURCE NOT FOUND = 'RESOURCE NOT FOUND'
    UNEXPECTED_EMPTY_OBJECT = 'UNEXPECTED_EMPTY_OBJECT'
    UNEXPECTED_PROPERTY = 'UNEXPECTED_PROPERTY'
    to dict()
        Returns the model properties as a dict
    to_str()
        Returns the string representation of the model
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.SubmitSkillForCertif
    Bases: object
        Parameters publication method
                                          ((optional) ask_smapi_model.v1.skill.
            publication_method.PublicationMethod) -
    attribute_map = {'publication_method': 'publicationMethod'}
    deserialized_types = {'publication_method': 'ask_smapi_model.v1.skill.publication_met
    supports_multiple_types = False
    to_dict()
        Returns the model properties as a dict
        Returns the string representation of the model
```

```
class ask_smapi_model.v1.skill.update_skill_with_package_request.UpdateSkillWithPackageReq
    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,
                                                                       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':
    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'
```

ask smapi model.v1.skill.update skill with package request module

```
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,
                                                                                        tual_number_of_items=None,
                                                                                        ac-
                                                                                        tual_string_length=None,
                                                                                        al-
                                                                                        lowed_content_types=None,
                                                                                        lowed_data_types=None,
                                                                                        lowed_image_attributes=None,
                                                                                        conflict-
                                                                                        ing_instance=None,
                                                                                        ex-
                                                                                        pected_instance=None,
                                                                                        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,
                                                                                        quired_property=None,
```

Bases: object

pected\_property=None)

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\_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.

Returns the string representation of the model

```
• 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
                                           ((optional) ask_smapi_model.v1.skill.

    original instance

                instance. Instance) - An Instance
              • required_property ((optional) str) - Property required but missing in the ob-
              • 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,
                                                                                 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':
    supports_multiple_types = False
    to_dict()
         Returns the model properties as a dict
    to str()
```

#### ask smapi model.v1.skill.validation feature module

```
class ask_smapi_model.v1.skill.validation_feature.ValidationFeature(name=None,
                                                                                tact=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':
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,
                                                                     sage=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 in OTHER.

```
attribute_map = {'message': 'message', 'reason': 'reason'}
deserialized_types = {'message': 'str', 'reason': 'ask_smapi_model.v1.skill.reason.R
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
```

- 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

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, viola-
                                                                     tions=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.
    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
         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
```

Alexa SKills Kit SDK for Python Documentation, Release 1.13.0	

# 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!

# CHAPTER 12

### **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.

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ask_sdk_model.interfaces.alexa.presentatask_apk_apdmatedtentedtepfaces.presentation.apl.pla
ask_sdk_model.interfaces.alexa.presentatask_apk_modmatedtertertersyalexa.presentation.apl.pos
ask_sdk_model.interfaces.alexa.presentatask_apk_modmatedterfasesrmlpxappresentation.apl.re
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