Alexa SKills Kit SDK for Python Documentation

Release 1.13.0

Alexa Skills Kit

SDK API Reference

| 1 | Runtime | 3 |
|-----|---|-----|
| 2 | Core | 15 |
| 3 | DynamoDb Persistence Adapter | 35 |
| 4 | Standard | 39 |
| 5 | Webservice Support and Framework Adapters | 43 |
| 6 | S3 Persistence Adapter | 51 |
| 7 | SMAPI | 53 |
| 8 | Models Runtime :ask_sdk_model_runtime package | 55 |
| 9 | Models :ask_sdk_model package | 65 |
| 10 | ASK SMAPI Models :ask_smapi_model package | 333 |
| 11 | Got Feedback? | 543 |
| 12 | Additional Resources | 545 |
| 13 | Indices and tables | 547 |
| Py | thon Module Index | 549 |
| Inc | lex | 565 |
| | | |

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.

SDK API Reference 1

2 SDK API Reference

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.

10 Chapter 1. Runtime

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

12 Chapter 1. Runtime

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.

14 Chapter 1. Runtime

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

2.6. API Client 27

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.

2.9. General Utilities 29

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.
```

2.9. General Utilities 31

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

2.9. General Utilities 33

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: https://developer.amazon.com/docs/custom-skills/request-and-response-json-reference.html#system-object

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

Returns Instance

of

ask_sdk_model.supported_interfaces.

SupportedInterfaces mentioning which all interfaces the device supports

Return type ask_sdk_model.supported_interfaces.SupportedInterfaces

ask_sdk_core.utils.request_util.is_new_session(handler_input)

Return if the session is new for the input request.

The method retrieves the new value from the input request's session, which indicates if it's a new session or not. The <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]

34 Chapter 2. Core

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

| lexa SKills Kit SDK for Python Documentation, Release 1.13.0 | |
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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: https://developer.amazon.com/docs/custom-skills/host-a-custom-skill-as-a-web-service.html#checking-the-signature-of-the-request

The constructor takes the header key names for retrieving Signature Certificate Chain and Signature. They are defaulted to the header names present in the <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())
```

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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]]

54 Chapter 7. SMAPI

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'
```

8.1. Subpackages 57

```
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

9.1. Subpackages 67

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
```

9.1. Subpackages 97

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>'. 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()
```

9.1. Subpackages 105

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

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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
```

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```
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
```

9.1. Subpackages 115

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
```

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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>'. 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 "AMZ* <soft descriptor specified here>". Default is "AMZ*<SELLER_NAME> amzn.com/ pmts WA". Maximum length can be 16 characters.
- **version** ((optional) str) Version of the Amazon Pay Entity. Can be 1 or greater.

```
attribute_map = {'authorization_amount': 'authorizationAmount', 'authorization_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>". Default is "AMZ*<SELLER_NAME> amzn.com/ pmts WA". 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
```

9.1. Subpackages 201

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)
```

9.1. Subpackages 261

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.
```

9.1. Subpackages 265

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
```

9.2. Submodules 311

```
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: The user says "exit"the user does not respond or says something that does not match an intent defined in your voice interface while the device is listening for the user's responsean error occurs

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

```
attribute_map = {'cause': 'cause', 'locale': 'locale', 'object_type': 'type', 'requ
deserialized_types = {'cause': 'ask_sdk_model.cause.Cause', 'locale': 'str', 'object_
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
```

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, Error, BadRequestError]

associate_isp_with_skill_v1 (product_id, skill_id, **kwargs)

Associates an in-skill product with a skill.

Parameters

- **product** id (str) (required) The in-skill product ID.
- **skill_id** (*str*) (required) The skill ID.
- **full_response** (boolean) Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[ApiResponse, Error, BadRequestError]

```
create_beta_test_v1 (skill_id, **kwargs)
```

Create beta test. Create a beta test for a given Alexa skill.

- **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, Error]

create_catalog_upload_v1 (catalog_id, catalog_upload_request_body, **kwargs)

Create new upload Create a new upload for a catalog and returns location to track the upload process.

Parameters

- catalog_id (str) (required) Unique identifier of the catalog
- catalog_upload_request_body (ask_smapi_model.v1.catalog. upload.catalog_upload_base.CatalogUploadBase) (required) 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, Error, BadRequestError]

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, StandardizedError]

```
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, StandardizedError, CatalogResponse, BadRequestError]

 $\verb|create_interaction_model_catalog_version_v1| (\textit{catalog_id}, \textit{catalog}, **kwargs)|$

Create a new version of catalog entity for the given catalogId.

Parameters

- $catalog_id(str) (required)$ Unique identifier of the catalog
- catalog (ask_smapi_model.v1.skill.interaction_model.version.version_data.VersionData) (required)
- **full_response** (boolean) Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[ApiResponse, StandardizedError, BadRequestError]

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, BadRequest, SlotTypeResponse, StandardizedError]

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, BadRequest, StandardizedError]

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, ProductResponse, Error, BadRequestError]

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, StandardizedError, BadRequestError, CreateSkillResponse]

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, StandardizedError, BadRequestError]

```
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, UploadResponse, StandardizedError]

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, StandardizedError, BadRequestError]

delete_interaction_model_catalog_v1 (catalog_id, **kwargs)
 Delete the catalog.

Parameters

- catalog_id (str) (required) 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, StandardizedError, BadRequestError]

delete_interaction_model_catalog_version_v1 (catalog_id, version, **kwargs)
 Delete catalog version.

Parameters

- catalog_id (str) (required) 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, StandardizedError, BadRequestError]

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, BadRequest, StandardizedError]

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, BadRequest, StandardizedError]

delete_isp_for_product_v1 (product_id, stage, **kwargs)

Deletes the in-skill product for given productId. Only development stage supported. Live in-skill products or in-skill products associated with a skill cannot be deleted by this API.

Parameters

- **product_id** (*str*) (required) The in-skill product ID.
- stage (str) (required) Stage for skill.
- **if_match** (str) Request header that specified an entity tag. The server will update the resource only if the eTag matches with the resource's current eTag.
- **full_response** (boolean) Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[ApiResponse, Error, BadRequestError]

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, StandardizedError, BadRequestError]

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, StandardizedError, BadRequestError]

```
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, StandardizedError, BadRequestError]

```
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, Error, BadRequestError]

```
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, Error, BadRequestError]

Generate preSigned urls to upload data

Parameters

• catalog_id (str) - (required) Unique identifier of the catalog

- generate_catalog_upload_url_request_body (ask_smapi_model. v1.catalog.create_content_upload_url_request. CreateContentUploadUrlRequest) (required) Request body to generate catalog upload url
- **full_response** (boolean) Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[ApiResponse, CreateContentUploadUrlResponse, Error, BadRequestError]

```
generate_credentials_for_alexa_hosted_skill_v1(skill_id,
```

hosted_skill_repository_credentials_request,
**kwargs)

Generates hosted skill repository credentials to access the hosted skill repository.

Parameters

- **skill_id** (*str*) (required) The skill ID.
- hosted_skill_repository_credentials_request

(ask_smapi_model.v1.skill.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, HostedSkillRepositoryCredentialsList, StandardizedError, BadRequestError]

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, StandardizedError, BadRequestError, AccountLinkingResponse]

```
get_alexa_hosted_skill_metadata_v1 (skill_id, **kwargs)
```

Get Alexa hosted skill's metadata

- **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, StandardizedError, HostedSkillMetadata, BadRequestError]

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, HostedSkillPermission, StandardizedError, BadRequestError]

```
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, BetaTest, Error, BadRequestError]

```
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, CertificationResponse, Error]

```
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, ListCertificationsResponse, Error]

```
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) 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, Error, GetContentUploadResponse, BadRequestError]

```
{\tt 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, ImportResponse, StandardizedError]

```
get_interaction_model_catalog_definition_v1 (catalog_id, **kwargs)
  get the catalog definition
```

Parameters

- catalog_id (str) (required) 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, CatalogDefinitionOutput, StandardizedError, BadRequestError]

Get the status of catalog resource and its sub-resources for a given catalogId.

Parameters

- catalog_id (str) (required) 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, StandardizedError, BadRequestError, CatalogStatus]

get_interaction_model_catalog_values_v1 (catalog_id, version, **kwargs)
Get catalog values from the given catalogId & version.

Parameters

- catalog_id (str) (required) 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, StandardizedError, CatalogValues, BadRequestError]

get_interaction_model_catalog_version_v1 (catalog_id, version, **kwargs)
Get catalog version data of given catalog version.

Parameters

- catalog_id (str) (required) 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, StandardizedError, BadRequestError, CatalogVersionData]

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-DF
- **full_response** (boolean) Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[ApiResponse, StandardizedError, BadRequestError]

Get the status of slot type resource and its sub-resources for a given slotTypeId.

Parameters

- **slot_type_id** (*str*) (required) The identifier for a slot type.
- update_request_id (str) (required) The identifier for slotType version creation process
- **full_response** (boolean) Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[ApiResponse, BadRequest, StandardizedError, SlotTypeStatus]

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, BadRequest, StandardizedError, SlotTypeDefinitionOutput]

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, SlotTypeVersionData, BadRequest, StandardizedError]

```
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.

- **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
- **full_response** (boolean) Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[ApiResponse, StandardizedError, BadRequestError, InteractionModel-Data]

get_interaction_model_version_v1 (skill_id, stage_v2, locale, version, **kwargs)

Gets the specified version *InteractionModel* of a skill for the vendor. Use ~*current* as version parameter to get the current version model.

Parameters

- **skill id** (str) (required) The skill ID.
- stage_v2 (str) (required) Stages of a skill including the new certified stage. * development skills which are currently in development corresponds to this stage. * certified skills which have completed certification and ready for publishing corresponds to this stage. * live skills which are currently live corresponds to this stage.
- locale (str) (required) The locale for the model requested e.g. en-GB, en-US, de-DE.
- **version** (*str*) (required) Version for interaction model.
- **full_response** (boolean) Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[ApiResponse, StandardizedError, BadRequestError, InteractionModel-Data]

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, AssociatedSkillResponse, Error]

```
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, Error, InSkillProductDefinitionResponse, BadRequestError]

```
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, Error, ListInSkillProductResponse, BadRequestError]

```
get_isp_list_for_vendor_v1 (vendor_id, **kwargs)
```

Get the list of in-skill products for the vendor.

- **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, Error, ListInSkillProductResponse, BadRequestError]

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, InSkillProductSummaryResponse, Error]

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, Error, ListTestersResponse, BadRequestError]

```
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, StandardizedError, BadRequestError]

```
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, StandardizedError, BadRequestError, SkillManifestEnvelope]

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, StandardizedError, BadRequestError, GetMetricDataResponse]

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, SimulationsApiResponse, Error, BadRequestError]

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, StandardizedError, BadRequestError, SkillStatus]

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, ValidationsApiResponse, Error, BadRequestError]

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, StandardizedError, SSLCertificatePayload]

```
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, StandardizedError, ExportResponse]

```
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.

- **skill_id** (*str*) (required) The skill ID.
- **next_token** (str) When response to this API call is truncated (that is, isTruncated response element value is true), the response also includes the nextToken element. The value of nextToken can be used in the next request as the continuation-token to list the

next set of objects. The continuation token is an opaque value that Skill Management API understands. Token has expiry of 24 hours.

- max_results (float) Sets the maximum number of results returned in the response body. If you want to retrieve fewer than upper limit of 50 results, you can add this parameter to your request. maxResults should not exceed the upper limit. The response might contain fewer results than maxResults, but it will never contain more. If there are additional results that satisfy the search criteria, but these results were not returned, the response contains isTruncated = true.
- **sort_direction** (*str*) Sets the sorting direction of the result items. When set to 'asc' these items are returned in ascending order of sortField value and when set to 'desc' these items are returned in descending order of sortField value.
- **sort_field** (str) Sets the field on which the sorting would be applied.
- **stage** (list[ask_smapi_model.v1.stage_type.StageType]) A filter used to retrieve items where the stage is equal to the given value.
- locale (list[ask_smapi_model.v1.skill.history.locale_in_query.LocaleInQuery])-
- dialog_act_name (list[ask_smapi_model.v1.skill.history.dialog_act_name.DialogActName]) A filter used to retrieve items where the dialogAct name is equal to the given value. * Dialog.ElicitSlot: Alexa asked the user for the value of a specific slot. (https://developer.amazon.com/docs/custom-skills/dialog-interface-reference.html#elicitslot) * Dialog.ConfirmSlot: Alexa confirmed the value of a specific slot before continuing with the dialog. (https://developer.amazon.com/docs/custom-skills/dialog-interface-reference.html#confirmslot) * Dialog.ConfirmIntent: Alexa confirmed the all the information the user has provided for the intent before the skill took action. (https://developer.amazon.com/docs/custom-skills/dialog-interface-reference.html#confirmintent)
- intent_confidence_bin (list[ask_smapi_model.v1.skill. history.intent_confidence_bin.IntentConfidenceBin])-
- intent_name (list[str]) A filter used to retrieve items where the intent name is equal to the given value.
- intent_slots_name (list[str]) A filter used to retrieve items where the one of the slot names is equal to the given value.
- interaction_type (list[ask_smapi_model.v1.skill.history.interaction_type.InteractionType]) -
- publication_status (list[ask_smapi_model.v1.skill.history. publication status.PublicationStatus])-
- utterance_text (list[str]) A filter used to retrieve items where the utterance text contains the given phrase. Each filter value can be at-least 1 character and at-most 100 characters long.
- **full_response** (boolean) Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[ApiResponse, StandardizedError, BadRequestError, IntentRequests]

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, Vendors, Error]

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, StandardizedError, BadRequestError]

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, StandardizedError, ListCatalogResponse, BadRequestError]

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, BadRequest, ListSlotTypeVersionResponse, StandardizedError]

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, BadRequest, StandardizedError, ListSlotTypeResponse]

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-DF
- 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, ListResponse, StandardizedError, BadRequestError]

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, StandardizedError, ListPrivateDistributionAccountsResponse, BadRequestError]

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, ListSkillResponse, StandardizedError, BadRequestError]

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, ProfileNluResponse, Error, BadRequestError]

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, Error, BadRequestError]

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, Error, BadRequestError]

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, Error, BadRequestError]

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, Error, BadRequestError]

set_interaction_model_v1 (*skill_id*, *stage_v2*, *locale*, *interaction_model*, **kwargs)

Creates an *InteractionModel* for the skill.

- **skill id** (str) (required) The skill ID.
- stage_v2 (str) (required) Stages of a skill including the new certified stage. * development skills which are currently in development corresponds to this stage. * certified skills which have completed certification and ready for publishing corresponds to this stage. * live skills which are currently live corresponds to this stage.
- locale (str) (required) The locale for the model requested e.g. en-GB, en-US, de-DE
- interaction_model (ask_smapi_model.v1.skill. interaction_model.interaction_model_data. InteractionModelData)-(required)
- **if_match** (*str*) Request header that specified an entity tag. The server will update the resource only if the eTag matches with the resource's current eTag.
- **full_response** (boolean) Boolean value to check if response should contain headers and status code information. This value had to be passed through keyword arguments, by default the parameter value is set to False.

Return type Union[ApiResponse, StandardizedError, BadRequestError]

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, StandardizedError, BadRequestError]

```
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, StandardizedError, BadRequestError]

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, StandardizedError, BadRequestError]

```
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, SimulationsApiResponse, Error, BadRequestError]

```
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, Error, BadRequestError]

```
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, StandardizedError, BadRequestError]

```
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, ValidationsApiResponse, Error, BadRequestError]

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, StandardizedError, BadRequestError]

```
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, Error, BadRequestError]

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) 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, StandardizedError, BadRequestError]

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) 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, StandardizedError, BadRequestError]

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, BadRequest, StandardizedError]

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, BadRequest, StandardizedError]

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, Error, BadRequestError]

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, StandardizedError, BadRequestError]

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, StandardizedError, BadRequestError]

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

class ask_smapi_model.v1.catalog.upload.file_upload_status.FileUploadStatus
    Bases: enum.Enum
    Value of status depends on if file is available for download or not.
```

Allowed enum values: [PENDING, AVAILABLE, PURGED, UNAVAILABLE]

```
AVAILABLE = 'AVAILABLE'

PENDING = 'PENDING'

PURGED = 'PURGED'

UNAVAILABLE = 'UNAVAILABLE'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model
```

ask_smapi_model.v1.catalog.upload.get_content_upload_response module

class ask_smapi_model.v1.catalog.upload.get_content_upload_response.GetContentUploadRespons

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) -
                                ((optional) ask_smapi_model.v1.catalog.upload.
             • file
               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':
    supports_multiple_types = False
    to dict()
        Returns the model properties as a dict
    to_str()
         Returns the string representation of the model
ask_smapi_model.v1.catalog.upload.pre_signed_url module
class ask_smapi_model.v1.catalog.upload.pre_signed_url.PreSignedUrl(url_id=None,
                                                                             part_e_tags=None)
    Bases:
                           ask_smapi_model.v1.catalog.upload.catalog_upload_base.
    CatalogUploadBase
    Request body for self-hosted catalog uploads
         Parameters
              • url_id((optional) str) - Unique identifier for urls
              part_e_tags
                                   ((optional) list[ask_smapi_model.v1.catalog.
               upload.pre_signed_url_item.PreSignedUrlItem]) - List of (eTag,
               part number) pairs for each part of the file uploaded
    attribute_map = {'part_e_tags': 'partETags', 'url_id': 'urlId'}
    deserialized_types = {'part_e_tags': 'list[ask_smapi_model.v1.catalog.upload.pre_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
                                                                                              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.
               ingestion_step_name.IngestionStepName) -
              • status
                                 ((optional) ask_smapi_model.v1.catalog.upload.
               ingestion_status.IngestionStatus)-
              • log url ((optional) str) - Url for the file containing logs of ingestion step.
              • violations ((optional) list[ask_smapi_model.v1.error.Error]) -
               This array will contain the violations occurred during the execution of step. Will be empty,
               if execution succeeded.
    attribute_map = {'log_url': 'logUrl', 'name': 'name', 'status': 'status', '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()
         Returns the string representation of the model
ask smapi model.v1.catalog.upload.upload status module
class ask_smapi_model.v1.catalog.upload.upload_status.UploadStatus
    Bases: enum. Enum
```

Status of the entire upload.

```
Allowed enum values: [PENDING, IN_PROGRESS, FAILED, SUCCEEDED]

FAILED = 'FAILED'

IN_PROGRESS = 'IN_PROGRESS'

PENDING = 'PENDING'

SUCCEEDED = 'SUCCEEDED'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model
```

Submodules

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

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

ask_smapi_model.v1.catalog.create_content_upload_url_request module

deserialized_types = {'number_of_upload_parts':

```
class ask_smapi_model.v1.catalog.create_content_upload_url_request.CreateContentUploadUrlRe
Bases: object

Parameters number_of_upload_parts((optional) int) - The number of parts the file
    will be split into. An equal number of presigned upload urls will be generated in response to
    facilitate each part's upload.

attribute_map = {'number_of_upload_parts': 'numberOfUploadParts'}
```

```
supports_multiple_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
```

Parameters

Bases: object

• 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
                                                                                                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': 'ur
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 corre-
                spond 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': 'isTr
    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
class ask_smapi_model.v1.isp.create_in_skill_product_request.CreateInSkillProductRequest(ve
    Bases: object
         Parameters
              • vendor_id((optional) str)-ID of the vendor owning the in-skill product.
              in_skill_product_definition
                                                   ((optional) ask_smapi_model.v1.
                isp.in_skill_product_definition.InSkillProductDefinition) -
    attribute_map = {'in_skill_product_definition':
                                                             'inSkillProductDefinition', 'vendor_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()
         Returns the string representation of the model
```

ask_smapi_model.v1.isp.currency module

```
class ask_smapi_model.v1.isp.currency.Currency
    Bases: enum.Enum

    Currency to use for in-skill product.

Allowed enum values: [USD, GBP, EUR, JPY]

EUR = 'EUR'

GBP = 'GBP'

JPY = 'JPY'

USD = 'USD'

to_dict()

    Returns the model properties as a dict

to_str()

    Returns the string representation of the model
```

ask_smapi_model.v1.isp.custom_product_prompts module

Bases: object

to str()

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_governance and the support of the su
```

ask smapi model.v1.isp.distribution countries module

Returns the string representation of the model

```
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
    Returns the string representation of the model
```

ask_smapi_model.v1.isp.editable_state module

```
class ask_smapi_model.v1.isp.editable_state.EditableState
    Bases: enum.Enum

Whether or not the in-skill product is editable.
Allowed enum values: [EDITABLE, NOT_EDITABLE]

EDITABLE = 'EDITABLE'

NOT_EDITABLE = 'NOT_EDITABLE'

to_dict()
    Returns the model properties as a dict

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

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

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vacy_and_co

ing_instruct

Bases: object

Defines the structure for an in-skill product.

Parameters

- version ((optional) str) Version of in-skill product definition.
- object_type ((optional) ask_smapi_model.v1.isp.product_type.
 ProductType) -
- **reference_name** (*(optional) str*) Developer selected in-skill product name. This is for developer reference only, it can be used to filter query results to identify a matching in-skill product.
- purchasable_state ((optional) ask_smapi_model.v1.isp. purchasable_state.PurchasableState)-
- subscription_information ((optional) ask_smapi_model.v1.isp. subscription_information.SubscriptionInformation)-

```
• publishing_information
                                            ((optional) ask_smapi_model.v1.isp.
               publishing_information.PublishingInformation) -
             privacy_and_compliance
                                            ((optional) ask_smapi_model.v1.isp.
               privacy_and_compliance.PrivacyAndCompliance) -
             • testing_instructions ((optional) str) - Special instructions provided by the
               developer to test the in-skill product.
    attribute_map = {'object_type': 'type', 'privacy_and_compliance': '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
    to_str()
        Returns the string representation of the model
ask_smapi_model.v1.isp.in_skill_product_definition_response module
class ask_smapi_model.v1.isp.in_skill_product_definition_response.InSkillProductDefinition
    Bases: object
    Defines In-skill product response.
        Parameters in skill product definition
                                                  ((optional) ask_smapi_model.
           v1.isp.in_skill_product_definition.InSkillProductDefinition)
    attribute_map = {'in_skill_product_definition': 'inSkillProductDefinition'}
    deserialized_types = {'in_skill_product_definition': 'ask_smapi_model.v1.isp.in_skill_
    supports_multiple_types = False
    to dict()
        Returns the model properties as a dict
    to_str()
        Returns the string representation of the model
```

ask smapi model.v1.isp.in skill product summary module

```
class ask_smapi_model.v1.isp.in_skill_product_summary.InSkillProductSummary(object_type=None,
                                                                                              prod-
                                                                                              uct_id=None,
                                                                                              ref-
                                                                                              er-
                                                                                              ence name=None,
                                                                                              last updated=None,
                                                                                              name_by_locale=Nor
                                                                                              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.EditableState)-
- 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()
        Returns the string representation of the model
ask smapi model.v1.isp.localized privacy and compliance module
class ask_smapi_model.v1.isp.localized_privacy_and_compliance.LocalizedPrivacyAndCompliance
    Bases: object
    Defines the structure for localized privacy and compliance.
        Parameters privacy_policy_url((optional) str)-Link to the privacy policy that ap-
            plies 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': 'd
deserialized_types = {'custom_product_prompts': 'ask_smapi_model.v1.isp.custom_produc
supports_multiple_types = False

```
to dict()
         Returns the model properties as a dict
     to str()
         Returns the string representation of the model
ask smapi model.v1.isp.marketplace pricing module
class ask_smapi_model.v1.isp.marketplace_pricing.MarketplacePricing(release_date=None,
                                                                                  fault_price_listing=None)
     Bases: object
     In-skill product pricing information for a marketplace.
         Parameters
               • release_date ((optional) datetime) - Date when in-skill product is available
                to customers for both purchase and use. Prior to this date the in-skill product will appear
                unavailable to customers and will not be purchasable.
               default_price_listing
                                                ((optional) ask_smapi_model.v1.isp.
                price listing.PriceListing) -
     attribute_map = {'default_price_listing': 'defaultPriceListing', 'release_date':
     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
    Product ID information.
         Parameters product_id((optional) str)-ID of the in-skill product created.
    attribute_map = {'product_id': 'productId'}
    deserialized_types = {'product_id': 'str'}
    supports_multiple_types = False
    to dict()
         Returns the model properties as a dict
    to str()
         Returns the string representation of the model
ask_smapi_model.v1.isp.product_type module
class ask_smapi_model.v1.isp.product_type.ProductType
    Bases: enum. Enum
    Type of in-skill product.
    Allowed enum values: [SUBSCRIPTION, ENTITLEMENT, CONSUMABLE]
    CONSUMABLE = 'CONSUMABLE'
    ENTITLEMENT = 'ENTITLEMENT'
```

```
SUBSCRIPTION = 'SUBSCRIPTION'
    to dict()
         Returns the model properties as a dict
    to str()
         Returns the string representation of the model
ask smapi model.v1.isp.publishing information module
class ask_smapi_model.v1.isp.publishing_information.PublishingInformation(locales=None,
                                                                                      dis-
                                                                                      tri-
                                                                                      bu-
                                                                                      tion_countries=None,
                                                                                      pric-
                                                                                      ing=None,
                                                                                      tax_information=None)
    Bases: object
    Defines the structure for in-skill product publishing information.
         Parameters
              • locales
                                          ((optional) dict(str, ask_smapi_model.
                v1.isp.localized_publishing_information.
                LocalizedPublishingInformation)) - Defines the structure for locale specific
                publishing information for an in-skill product.
              distribution_countries
                                             ((optional) list[ask_smapi_model.v1.
                isp.distribution_countries.DistributionCountries]) - List of
                countries where the in-skill product is available.
                                  ((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':
                                                                                                   'loca
    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
     to_str()
         Returns the string representation of the model
ask_smapi_model.v1.isp.stage module
class ask_smapi_model.v1.isp.stage.Stage
     Bases: enum. Enum
     Stage of in-skill product.
     Allowed enum values: [development, live]
     development = 'development'
     live = 'live'
     to dict()
         Returns the model properties as a dict
     to_str()
         Returns the string representation of the model
ask_smapi_model.v1.isp.status module
class ask_smapi_model.v1.isp.status.Status
     Bases: enum. Enum
     Current status of in-skill product.
     Allowed enum values: [INCOMPLETE, COMPLETE, CERTIFICATION, PUBLISHED, SUPPRESSED]
     CERTIFICATION = 'CERTIFICATION'
     COMPLETE = 'COMPLETE'
     INCOMPLETE = 'INCOMPLETE'
     PUBLISHED = 'PUBLISHED'
     SUPPRESSED = 'SUPPRESSED'
     to dict()
         Returns the model properties as a dict
         Returns the string representation of the model
```

```
ask smapi model.v1.isp.subscription information module
```

```
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
    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':
    deserialized_types = {'default_price_listing': 'ask_smapi_model.v1.isp.summary_price_
    supports_multiple_types = False
    to_dict()
         Returns the model properties as a dict
    to_str()
         Returns the string representation of the model
ask_smapi_model.v1.isp.summary_price_listing module
class ask_smapi_model.v1.isp.summary_price_listing.SummaryPriceListing(price=None,
                                                                                  prime_member_price=None,
                                                                                  cur-
                                                                                  rency=None)
    Bases: object
    Price listing information for in-skill product.
         Parameters
              • price ((optional) float) - The price of an in-skill product.
              • prime_member_price ((optional) float) - The prime price of an in-skill prod-
              • currency ((optional) ask smapi model.v1.isp.currency.Currency)
    attribute_map = {'currency': 'currency', 'price': 'price', 'prime_member_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.tax_information module
class ask_smapi_model.v1.isp.tax_information.TaxInformation(category=None)
    Bases: object
    Defines the structure for in-skill product tax information.
         Parameters category
                                              ((optional) ask_smapi_model.v1.isp.
            tax_information_category.TaxInformationCategory) -
    attribute_map = {'category': 'category'}
```

```
deserialized_types = {'category': 'ask_smapi_model.v1.isp.tax_information_category.Ta
    supports_multiple_types = False
    to_dict()
        Returns the model properties as a dict
    to str()
        Returns the string representation of the model
ask smapi model.v1.isp.tax information category module
class ask_smapi_model.v1.isp.tax_information_category.TaxInformationCategory
    Bases: enum. Enum
    Select tax category that best describes in-skill product. Choice will be validated during certification process.
    Allowed enum values:
                          [SOFTWARE, STREAMING_AUDIO, STREAMING_RADIO, INFORMA-
    TION_SERVICES, VIDEO, PERIODICALS, NEWSPAPERS]
    INFORMATION_SERVICES = 'INFORMATION_SERVICES'
    NEWSPAPERS = 'NEWSPAPERS'
    PERIODICALS = 'PERIODICALS'
    SOFTWARE = 'SOFTWARE'
    STREAMING AUDIO = 'STREAMING AUDIO'
    STREAMING_RADIO = 'STREAMING_RADIO'
    VIDEO = 'VIDEO'
    to dict()
        Returns the model properties as a dict
    to_str()
        Returns the string representation of the model
ask smapi model.v1.isp.update in skill product request module
class ask_smapi_model.v1.isp.update_in_skill_product_request.UpdateInSkillProductRequest(in
    Bases: object
        Parameters in skill product definition
                                                     ((optional) ask smapi model.
            v1.isp.in_skill_product_definition.InSkillProductDefinition)
    attribute_map = {'in_skill_product_definition': 'inSkillProductDefinition'}
    deserialized_types = {'in_skill_product_definition': 'ask_smapi_model.v1.isp.in_skill_
    supports_multiple_types = False
    to dict()
        Returns the model properties as a dict
    to_str()
        Returns the string representation of the model
```

ask smapi model.v1.skill package

Subpackages

ask smapi model.v1.skill.account linking package

Submodules

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

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

ask smapi model.v1.skill.account linking.access token scheme type module

```
class ask_smapi_model.v1.skill.account_linking.access_token_scheme_type.AccessTokenSchemeTy
Bases: enum.Enum
```

The type of client authentication scheme.

Allowed enum values: [HTTP_BASIC, REQUEST_BODY_CREDENTIALS]

```
HTTP_BASIC = 'HTTP_BASIC'
```

REQUEST_BODY_CREDENTIALS = 'REQUEST_BODY_CREDENTIALS'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

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

class ask_smapi_model.v1.skill.account_linking.account_linking_request.**AccountLinkingReque**

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

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

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

Bases: object

The account linking information of a skill.

Parameters

- object_type ((optional) ask_smapi_model.v1.skill. account_linking.account_linking_type.AccountLinkingType)-
- authorization_url ((optional) str) The url where customers will be redirected in the companion app to enter login credentials.
- domains ((optional) list[str]) The list of domains that the authorization URL will fetch content from.
- **client_id** (*(optional) str*) The unique public string used to identify the client requesting for authentication.
- **scopes** ((optional) list[str]) The list of permissions which will be requested from the skill user.
- access_token_url ((optional) str) The url used for access token and token refresh requests.

- access_token_scheme ((optional) ask_smapi_model. v1.skill.account_linking.access_token_scheme_type. 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

```
class ask_smapi_model.v1.skill.account_linking.account_linking_type.AccountLinkingType
    Bases: enum.Enum
    The type of account linking.
    Allowed enum values: [AUTH_CODE, IMPLICIT]
    AUTH_CODE = 'AUTH_CODE'
    IMPLICIT = 'IMPLICIT'
```

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

Returns the string representation of the model

ask smapi model.v1.skill.alexa hosted package

Submodules

Note: Canonical imports have been added in the <u>__init__</u>.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.
```

10.1. Subpackages 395

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.Hos
    Bases: object
        Parameters repository
                                                 ((optional) ask_smapi_model.v1.
            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: [nodejs8_10, python3_7]

nodejs8_10 = 'nodejs8.10'

python3_7 = 'python3.7'

to_dict()
    Returns the model properties as a dict

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

ask smapi model.v1.skill.beta test package

Subpackages

ask_smapi_model.v1.skill.beta_test.testers package

Submodules

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

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

ask_smapi_model.v1.skill.beta_test.testers.invitation_status module

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()
```

Returns the string representation of the model

Submodules

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

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

ask_smapi_model.v1.skill.beta_test.beta_test module

```
class ask_smapi_model.v1.skill.beta_test.beta_test.BetaTest(expiry_date=None,
                                                                       status=None, 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
         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
```

Returns the string representation of the model

Returns the model properties as a dict

to dict()

to str()

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()
```

10.1. Subpackages 405

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
```

Returns the string representation of the model

ask_smapi_model.v1.skill.certification.estimation_update module

Bases: object

to_str()

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()
```

Returns the string representation of the model

ask smapi model.v1.skill.certification.list certifications response module

class ask_smapi_model.v1.skill.certification.list_certifications_response.ListCertification

Bases: object

List of certification summary for a skill.

Parameters

- links((optional) ask_smapi_model.v1.links.Links)-
- is_truncated ((optional) bool) boolean value for if the response is truncated. isTruncated = true if more than the assigned maxResults parameter value certification items are available for the skill. The results are then paginated and the remaining results can be retrieved in a similar paginated manner by using 'next' link in the _links or using the nextToken in a following request.
- next_token ((optional) str) Encrypted token present when 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 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
```

Returns the model properties as a diet

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

 $\textbf{class} \ \, \texttt{ask_smapi_model.v1.skill.certification.review_tracking_info_summary.} \\ \textbf{ReviewTrackingInstitute} \\ \text{ask_smapi_model.v1.skill.certification.review_tracking_info_summary.} \\ \textbf{ReviewTrackingInstitute} \\ \text{ask_smapi_model.v1.skill.certification.review_tracking_info_summary.} \\ \text{ReviewTrackingInstitute} \\ \text{ask_smapi_model.v1.skill.certification.} \\ \text{ask_smapi_model.v2.skill.certification.} \\ \text{ask_smapi_model.v2.skill.certification.} \\ \text{ask_smapi_model.v2.skill.certification.} \\ \text{ask_smapi_model.v2.skill.certification.} \\ \text{ask_smapi_model.v2.skill.certification.} \\ \text{ask_smapi_model.v2.skill.certification.} \\ \text{ask_smapi_model.v3.skill.certification.} \\ \text{ask_smapi$

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', 'estimated
deserialized_types = {'actual_completion_timestamp': 'datetime', 'estimated_completion
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 package

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.evaluations.confirmation_status_type module

"NONE", "CONFIRMED", "DENIED".

```
class ask_smapi_model.v1.skill.evaluations.confirmation_status_type.ConfirmationStatusType
    Bases: enum.Enum
    An enumeration indicating whether the user has explicitly confirmed or denied the entire intent. Possible values:
```

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()

to str()

Returns the model properties as a dict

Returns the string representation of the model

ask smapi model.v1.skill.evaluations.intent module

• **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
```

Returns the moder properties as a di

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.evaluations.multi_turn module

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

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_ini

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()
```

Returns the string representation of the model

ask smapi model.v1.skill.evaluations.profile nlu selected intent module

class ask_smapi_model.v1.skill.evaluations.profile_nlu_selected_intent.ProfileNluSelectedIntent.

Bases: ask_smapi_model.v1.skill.evaluations.intent.Intent

The intent that Alexa selected for the utterance in the request.

Parameters

- name((optional) str)-
- confirmation_status ((optional) ask_smapi_model.v1.skill. evaluations.confirmation_status_type.ConfirmationStatusType)
- **slots** ((optional) dict(str, ask_smapi_model.v1.skill. evaluations.slot.Slot)) A map of key-value pairs that further describes what the user meant based on a predefined intent schema. The map can be empty.

```
attribute_map = {'confirmation_status': 'confirmationStatus', 'name': 'name', 'slots
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()
```

Returns the string representation of the model

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

10.1. Subpackages 417

`Dialog.ConfirmSlot`: Alexa confirmed the value of a specific slot before continuing with

the dialog. (https://developer.amazon.com/docs/custom-skills/dialog-interface-reference.html#confirmslot) * ` Dialog. ConfirmIntent `: Alexa confirmed the all the information the user has provided for the intent before the skill took action. (https://developer.amazon.com/docs/custom-skills/dialog-interface-reference. html#confirmintent)

```
Allowed enum values: [Dialog_ElicitSlot, Dialog_ConfirmSlot, Dialog_ConfirmIntent]
```

```
Dialog_ConfirmIntent = 'Dialog.ConfirmIntent'
Dialog_ConfirmSlot = 'Dialog.ConfirmSlot'
Dialog_ElicitSlot = 'Dialog.ElicitSlot'
to_dict()
    Returns the model properties as a dict
to str()
```

Returns the string representation of the model

ask smapi model.v1.skill.history.intent module

```
class ask_smapi_model.v1.skill.history.intent.Intent(name=None,
                                                                               confi-
                                                            dence=None, slots=None)
    Bases: object
```

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

Parameters

- name ((optional) str) The hypothesized intent for this utterance.
- confidence ((optional) ask_smapi_model.v1.skill.history. confidence.Confidence) -
- slots ((optional) dict(str, ask_smapi_model.v1.skill.history. slot.Slot)) – The hypothesized slot(s) for this interaction.

```
attribute_map = {'confidence': 'confidence', 'name': 'name', 'slots': 'slots'}
deserialized_types = {'confidence': 'ask_smapi_model.v1.skill.history.confidence.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()
```

ask smapi model.v1.skill.history.intent requests module

Returns the string representation of the model

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
```

publicationStatus = 'publicationStatus'

recordCount = 'recordCount'

stage = 'stage'

ask smapi model.v1.skill.history.publication status module class ask_smapi_model.v1.skill.history.publication_status.PublicationStatus Bases: enum. Enum The publication status of the skill when this interaction occurred Allowed enum values: [Development, Certification] Certification = 'Certification' Development = 'Development' to dict() Returns the model properties as a dict to str() Returns the string representation of the model ask_smapi_model.v1.skill.history.slot module **class** ask_smapi_model.v1.skill.history.slot.**Slot** (name=None) Bases: object **Parameters name** ((optional) str) – Name of the slot that was used in this interaction. attribute_map = {'name': 'name'} deserialized_types = {'name': 'str'} supports_multiple_types = False to dict() Returns the model properties as a dict to str() Returns the string representation of the model ask smapi model.v1.skill.history.sort field for intent request type module class ask_smapi_model.v1.skill.history.sort_field_for_intent_request_type.SortFieldForInter Bases: enum. Enum Allowed enum values: [recordCount, intent_name, intent_confidence_bin, stage, dialogAct_name, locale, utteranceText, publicationStatus, interactionType] dialogAct_name = 'dialogAct.name' intent_confidence_bin = 'intent.confidence.bin' intent_name = 'intent.name' interactionType = 'interactionType' locale = 'locale'

```
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

 $\textbf{class} \ \, \text{ask_smapi_model.vl.skill.interaction_model.catalog.catalog_definition_output.} \\ \textbf{Catalog} \\ \text{locality} \\ \text{class} \ \, \text{ask_smapi_model.vl.skill.interaction_model.catalog.catalog_definition_output.} \\ \textbf{Catalog} \\ \text{locality} \\ \text{class} \ \, \text{ask_smapi_model.vl.skill.interaction_model.catalog.catalog_definition_output.} \\ \textbf{Catalog} \\ \text{locality} \\ \text{class} \ \, \text{ask_smapi_model.vl.skill.interaction_model.} \\ \textbf{class} \ \, \text{ask_smapi_model.vl.skill.interaction_model.catalog.catalog_definition_output.} \\ \textbf{class} \ \, \text{ask_smapi_model.vl.skill.interaction_model.catalog.catalog_definition_output.} \\ \textbf{class} \ \, \text{ask_smapi_model.vl.skill.interaction_model.catalog.catalog_definition_output.} \\ \textbf{class_smapi_model.vl.skill.interaction_model.catalog$

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()
```

10.1. Subpackages 425

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.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
```

Bases: object

List of catalog versions of a skill for the vendor.

Parameters

```
• links((optional) ask_smapi_model.v1.links.Links)-

    catalogs

                                     ((optional) list[ask_smapi_model.v1.skill.
               interaction_model.catalog.catalog_item.CatalogItem]) - List of
               catalogs.
              • is truncated((optional) bool)-
              • next token((optional) str)-
              • total_count((optional) int)-
    attribute_map = {'catalogs': 'catalogs', 'is_truncated': 'isTruncated', 'links':
    deserialized_types = {'catalogs': 'list[ask_smapi_model.v1.skill.interaction_model.ca
    supports_multiple_types = False
    to_dict()
        Returns the model properties as a dict
    to_str()
        Returns the string representation of the model
ask smapi model.v1.skill.interaction model.catalog.update request module
class ask smapi model.v1.skill.interaction model.catalog.update request.UpdateRequest (name=
    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
    Bases: object
```

10.1. Subpackages 431

The value schema in type object of interaction model.

Parameters

```
• id((optional) str)-
             • name ((optional) ask_smapi_model.v1.skill.interaction_model.
               version.value schema name.ValueSchemaName) -
    attribute_map = {'id': 'id', 'name': 'name'}
    deserialized types = {'id': 'str', 'name': 'ask smapi model.v1.skill.interaction 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
             • source
                                          ((optional) ask_smapi_model.v1.skill.
               interaction_model.version.input_source.InputSource) -
             • description ((optional) str) – Description string for specific catalog version.
    attribute_map = {'description': 'description', 'source': 'source'}
    deserialized_types = {'description': 'str', 'source': 'ask_smapi_model.v1.skill.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_st
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

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()
```

ask smapi model.v1.skill.interaction model.is in set module

Returns the string representation of the model

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.

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

ask_smapi_model.v1.skill.interaction_model.is_not_in_set module

Validates if the slot is not in the specified set of values.

Parameters

to str()

- **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
```

Returns the string representation of the model

ask_smapi_model.v1.skill.interaction_model.language_model module

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])-
                                    ((optional) list[ask_smapi_model.v1.skill.
               interaction_model.intent.Intent])-
    attribute_map = {'intents': 'intents', 'invocation_name': 'invocationName', 'types':
    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

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,
                                                                                               ob-
                                                                                               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

Bases: object

Custom slot type to define a list of possible values for a slot. Used for items that are not covered by Amazon's built-in slot types.

Parameters

- name ((optional) str) The name of the custom slot type.
- values ((optional) list[ask_smapi_model.v1.skill. interaction_model.type_value.TypeValue]) List of expected values. Values outside the list are still returned.
- value_supplier ((optional) ask_smapi_model.v1.skill. interaction_model.value_supplier.ValueSupplier)-

```
attribute_map = {'name': 'name', 'value_supplier': 'valueSupplier', 'values': '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

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. Is Less Than Or Equal To,
    isInDuration:
    ask_smapi_model.v1.skill.interaction_model.is_in_duration.IsInDuration,
    isLessThan:
    ask_smapi_model.v1.skill.interaction_model.is_less_than.IsLessThan,
    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,
    isNotInDuration: ask_smapi_model.v1.skill.interaction_model.is_not_in_duration.
    IsNotInDuration.
    isGreaterThanOrEqualTo: ask_smapi_model.v1.skill.interaction_model.
    is_greater_than_or_equal_to.IsGreaterThanOrEqualTo,
    isInSet: ask_smapi_model.v1.skill.interaction_model.is_in_set.IsInSet
    attribute_map = {'object_type': 'type', 'prompt': 'prompt'}
    deserialized_types = {'object_type': 'str', 'prompt': 'str'}
    discriminator_value_class_map = {'hasEntityResolutionMatch': 'ask_smapi_model.v1.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,
                                                                                    ver-
                                                                                    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': 'str'}
    supports_multiple_types = False
    to dict()
         Returns the model properties as a dict
    to str()
         Returns the string representation of the model
ask_smapi_model.v1.skill.interaction_model.value_supplier module
class ask_smapi_model.v1.skill.interaction_model.value_supplier.ValueSupplier(object_type=None
    Bases: object
    Supplier object to provide slot values.
         Parameters object_type ((optional) str) - The exact type of validation
            e.g.CatalogValueSupplier etc.
    Note: This is an abstract class. Use the following mapping, to figure out the model class to be instantiated, that
    sets type variable.
    Catalog Value Supplier: 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
```

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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

Bases: object

Defines the structure of alexaForBusiness api in the skill manifest.

Parameters

- regions ((optional) dict(str, ask_smapi_model.v1.skill. manifest.region.Region)) Contains an array of the supported <region> Objects.
- endpoint ((optional) ask_smapi_model.v1.skill.manifest.skill_manifest_endpoint.SkillManifestEndpoint)-
- interfaces ((optional) list[ask_smapi_model.v1. skill.manifest.alexa_for_business_interface.

 AlexaForBusinessInterface]) Contains the list of supported interfaces.

```
attribute_map = {'endpoint': 'endpoint', 'interfaces': 'interfaces', 'regions': 're
deserialized_types = {'endpoint': 'ask_smapi_model.v1.skill.manifest.skill_manifest_e
supports_multiple_types = False
```

```
to_dict()
```

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.alexa_for_business_interface module

```
class ask_smapi_model.v1.skill.manifest.alexa_for_business_interface.AlexaForBusinessInter
```

Bases: object

```
Parameters
```

```
• namespace ((optional) str) - Name of the interface.

    version

                                ((optional) ask_smapi_model.v1.skill.manifest.
               version. Version) -
              • requests ((optional) list[ask smapi model.v1.skill.manifest.
               request. Request 1) - 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
    to str()
        Returns the string representation of the model
ask smapi model.v1.skill.manifest.audio interface module
class ask smapi model.v1.skill.manifest.audio interface.AudioInterface
    Bases: ask_smapi_model.v1.skill.manifest.interface.Interface
    attribute_map = {'object_type': 'type'}
    deserialized_types = {'object_type': 'str'}
    supports_multiple_types = False
    to_dict()
        Returns the model properties as a dict
        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.
                                ((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
                                                                                          ver-
                                                                                          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': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask_smapi_model.v1.skill.manifest.critical_data_handling module

```
class ask_smapi_model.v1.skill.manifest.critical_data_handling.CriticalDataHandling(data_prot
Bases: object
```

Contains the critical data related info.

```
Parameters data_protection_provider
                                                  ((optional) ask_smapi_model.v1.
            skill.manifest.data_protection_provider.DataProtectionProvider)
    attribute_map = {'data_protection_provider': 'dataProtectionProvider'}
    deserialized_types = {'data_protection_provider': '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.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
                               ((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. Skill Manifest Endpoint) -
                                     ((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. Skill Manifest Custom Task 1) - 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
              • requires ((optional) list[ask_smapi_model.v1.skill.manifest.
               connections. Connections]) - List of required connections.

    provides ((optional) list[ask_smapi_model.v1.skill.manifest.

                connections. Connections]) - List of provided connections.
    attribute_map = {'provides': 'provides', 'requires': 'requires'}
    deserialized_types = {'provides': 'list[ask_smapi_model.v1.skill.manifest.connections
    supports_multiple_types = False
    to dict()
        Returns the model properties as a dict
    to str()
         Returns the string representation of the model
ask_smapi_model.v1.skill.manifest.custom_interface module
class ask_smapi_model.v1.skill.manifest.custom_interface.CustomInterface
    Bases: ask_smapi_model.v1.skill.manifest.interface.Interface
    Skills using Custom Interfaces can send custom directives and receive custom events from custom endpoints
    such as Alexa gadgets.
    attribute_map = {'object_type': 'type'}
    deserialized_types = {'object_type': 'str'}
    supports_multiple_types = False
    to dict()
         Returns the model properties as a dict
    to str()
         Returns the string representation of the model
ask smapi model.v1.skill.manifest.data protection provider module
class ask_smapi_model.v1.skill.manifest.data_protection_provider.DataProtectionProvider
    Bases: enum. Enum
    The data protection provider.
    Allowed enum values: [KEY_MASTER, AWS_KMS]
    AWS KMS = 'AWS KMS'
    KEY MASTER = 'KEY MASTER'
```

```
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 module

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

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
```

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]

```
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AG = 'AG'

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AL = 'AL'

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AS = 'AS'

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AU = 'AU' AW = 'AW'

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- ST = 'ST'
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- TF = 'TF'
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- TH = 'TH'
- TJ = 'TJ'
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- TL = 'TL'
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- 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'

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WF = 'WF'

WS = 'WS'

YE = 'YE'

YT = 'YT'

ZA = 'ZA'

ZM = 'ZM'

ZW = 'ZW'

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model
```

ask smapi model.v1.skill.manifest.distribution mode module

```
class ask_smapi_model.v1.skill.manifest.distribution_mode.DistributionMode
    Bases: enum.Enum
```

What audience the skill should be distributed to. "PUBLIC" - available to all users. Has ASIN and can be enabled. "PRIVATE" - available to entitled users. Has ASIN and can be enabled. "INTERNAL" - has no ASIN and cannot be enabled by users. Internally managed skills.

Allowed enum values: [PRIVATE, PUBLIC, INTERNAL]

```
INTERNAL = 'INTERNAL'

PRIVATE = 'PRIVATE'

PUBLIC = 'PUBLIC'

to_dict()
    Returns the model properties as a dict

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

ask_smapi_model.v1.skill.manifest.event_name module

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

ask_smapi_model.v1.skill.manifest.event_name_type module

```
class ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType
    Bases: enum.Enum
```

Name of the event to be subscribed to.

```
Allowed enum values: [SKILL_ENABLED, SKILL_DISABLED, SKILL_PERMISSION_ACCEPTED,
SKILL PERMISSION CHANGED,
                                         SKILL ACCOUNT LINKED,
                                                                            ITEMS CREATED,
ITEMS_UPDATED, ITEMS_DELETED,
                                         LIST_CREATED,
                                                           LIST_UPDATED,
                                                                              LIST_DELETED,
ALL_LISTS_CHANGED, REMINDER_STARTED, REMINDER_CREATED, REMINDER_UPDATED,
REMINDER_DELETED, REMINDER_STATUS_CHANGED, AUDIO_ITEM_PLAYBACK_STARTED,
AUDIO ITEM PLAYBACK FINISHED,
                                             AUDIO ITEM PLAYBACK STOPPED,
DIO 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_FocusChanged,
Legacy_ActivityManager_ActivityInterrupted,
Legacy AlertsController DismissCommand,
                                                        Legacy AlertsController SnoozeCommand,
Legacy AudioPlayer AudioStutter,
                                                Legacy AudioPlayer InitialPlaybackProgressReport,
Legacy AudioPlayer Metadata,
                                              Legacy AudioPlayer PeriodicPlaybackProgressReport,
Legacy_AudioPlayer_PlaybackError,
                                                           Legacy_AudioPlayer_PlaybackFinished,
Legacy_AudioPlayer_PlaybackIdle,
                                                         Legacy_AudioPlayer_PlaybackInterrupted,
Legacy_AudioPlayer_PlaybackNearlyFinished,
                                                             Legacy_AudioPlayer_PlaybackPaused,
Legacy AudioPlayer PlaybackResumed,
                                                             Legacy AudioPlayer PlaybackStarted,
Legacy_AudioPlayer_PlaybackStutterFinished,
                                                       Legacy_AudioPlayer_PlaybackStutterStarted,
Legacy AudioPlayerGui ButtonClickedEvent,
                                                       Legacy AudioPlayerGui LyricsViewedEvent,
Legacy_AuxController_DirectionChanged,
                                                      Legacy_AuxController_EnabledStateChanged,
Legacy_AuxController_InputActivityStateChanged,
                                                      Legacy_AuxController_PluggedStateChanged,
Legacy_BluetoothNetwork_CancelPairingMode,
                                                Legacy_BluetoothNetwork_DeviceConnectedFailure,
Legacy BluetoothNetwork DeviceConnectedSuccess, Legacy BluetoothNetwork DeviceDisconnectedFailure,
Legacy BluetoothNetwork DeviceDisconnectedSuccess,
                                                      Legacy BluetoothNetwork DevicePairFailure,
Legacy BluetoothNetwork DevicePairSuccess,
                                                    Legacy BluetoothNetwork DeviceUnpairFailure,
Legacy BluetoothNetwork DeviceUnpairSuccess,
                                                Legacy BluetoothNetwork EnterPairingModeFailure,
Legacy BluetoothNetwork EnterPairingModeSuccess,
                                                    Legacy BluetoothNetwork MediaControlFailure,
Legacy BluetoothNetwork MediaControlSuccess,
                                                     Legacy BluetoothNetwork ScanDevicesReport,
Legacy_BluetoothNetwork_SetDeviceCategoriesFailed, Legacy_BluetoothNetwork_SetDeviceCategoriesSucceeded,
Legacy ContentManager ContentPlaybackTerminated, Legacy DeviceNotification DeleteNotificationFailed,
Legacy_DeviceNotification_DeleteNotificationSucceeded, Legacy_DeviceNotification_NotificationEnteredBackground,
Legacy_DeviceNotification_NotificationEnteredForground,
                                                     Legacy_DeviceNotification_NotificationStarted,
Legacy_DeviceNotification_NotificationStopped,
                                                       Legacy_DeviceNotification_NotificationSync,
Legacy_DeviceNotification_SetNotificationFailed,
                                               Legacy_DeviceNotification_SetNotificationSucceeded,
Legacy_EqualizerController_EqualizerChanged,
                                               Legacy_ExternalMediaPlayer_AuthorizationComplete,
Legacy ExternalMediaPlayer Error, Legacy ExternalMediaPlayer Event, Legacy ExternalMediaPlayer Login,
Legacy_ExternalMediaPlayer_Logout,
                                              Legacy_ExternalMediaPlayer_ReportDiscoveredPlayers,
Legacy ExternalMediaPlayer RequestToken,
                                                                Legacy_FavoritesController_Error,
Legacy_FavoritesController_Response,
                                                            Legacy_GameEngine_GameInputEvent,
Legacy HomeAutoWifiController DeviceReconnected,
                                                     Legacy HomeAutoWifiController HttpNotified,
Legacy HomeAutoWifiController SsdpDiscoveryFinished, Legacy HomeAutoWifiController SsdpServiceDiscovered,
```

```
Legacy HomeAutoWifiController SsdpServiceTerminated,
                                                                 Legacy ListModel AddItemRequest,
Legacy ListModel DeleteItemRequest,
                                                        Legacy ListModel GetPageByOrdinalRequest,
Legacy ListModel GetPageByTokenRequest,
                                                           Legacy ListModel ListStateUpdateRequest,
Legacy_ListModel_UpdateItemRequest,
                                                          Legacy_ListRenderer_GetListPageByOrdinal,
Legacy ListRenderer GetListPageByToken,
                                                                 Legacy ListRenderer ListItemEvent,
Legacy MediaGrouping GroupChangeNotificationEvent, Legacy MediaGrouping GroupChangeResponseEvent,
Legacy MediaGrouping GroupSyncEvent.
                                                                 Legacy MediaPlayer PlaybackError.
Legacy MediaPlayer PlaybackFinished,
                                                                  Legacy MediaPlayer PlaybackIdle,
Legacy MediaPlayer PlaybackNearlyFinished,
                                                                Legacy MediaPlayer PlaybackPaused.
Legacy_MediaPlayer_PlaybackResumed,
                                                               Legacy_MediaPlayer_PlaybackStarted,
Legacy_MediaPlayer_PlaybackStopped,
                                                       Legacy_MediaPlayer_SequenceItemsRequested,
Legacy_MediaPlayer_SequenceModified,
                                                              Legacy_MeetingClientController_Event,
Legacy Microphone AudioRecording,
                                                                  Legacy PhoneCallController Event,
Legacy PlaybackController ButtonCommand,
                                                       Legacy_PlaybackController_LyricsViewedEvent,
Legacy PlaybackController NextCommand,
                                                          Legacy_PlaybackController_PauseCommand,
Legacy_PlaybackController_PlayCommand,
                                                       Legacy_PlaybackController_PreviousCommand,
Legacy_PlaybackController_ToggleCommand,
                                                            Legacy_PlaylistController_ErrorResponse,
Legacy PlaylistController Response,
                                                     Legacy Presentation PresentationDismissedEvent,
Legacy Presentation PresentationUserEvent,
                                                                  Legacy SconeRemoteControl Next,
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,
                                                           LocalApplication_AlexaNotifications_Event,
LocalApplication_AlexaPlatformTestSpeechlet_Event,
                                                       LocalApplication_AlexaVision_Event,
calApplication AlexaVoiceLayer Event,
                                        Local Application Ava Physical Shopping Event,
                                                                                        Local Appli-
cation_Calendar_Event,
                          LocalApplication_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,
Local Application Knight Home Event,
                                                    Local Application Knight Home Things To Try Event,
LocalApplication LocalMediaPlayer Event,
                                                  LocalApplication LocalVoiceUI Event,
calApplication MShop Event,
                                    Local Application MShop Purchasing Event,
                                                                                      Local Applica-
tion NotificationsApp Event,
                                 LocalApplication_Photos_Event,
                                                                     Local Application Sentry Event,
LocalApplication SipClient Event,
                                         LocalApplication SipUserAgent Event,
                                                                                      Local Applica-
tion_todoRenderer_Event,
                                LocalApplication_VideoExperienceService_Event,
                                                                                      Local Applica-
                                          Alexa Camera PhotoCaptureController CancelCaptureFailed,
tion WebVideoPlayer Event,
Alexa Camera PhotoCaptureController CancelCaptureFinished, Alexa Camera PhotoCaptureController CaptureFailed,
Alexa Camera PhotoCaptureController CaptureFinished, Alexa Camera VideoCaptureController CancelCaptureFailed,
Alexa_Camera_VideoCaptureController_CancelCaptureFinished, Alexa_Camera_VideoCaptureController_CaptureFailed,
Alexa_Camera_VideoCaptureController_CaptureFinished, Alexa_Camera_VideoCaptureController_CaptureStarted,
Alexa_FileManager_UploadController_CancelUploadFailed, Alexa_FileManager_UploadController_CancelUploadFinished,
Alexa FileManager UploadController UploadFailed, Alexa FileManager UploadController UploadFinished,
Alexa_FileManager_UploadController_UploadStarted,
                                                                 Alexa Presentation APL UserEvent,
Alexa Presentation HTML Event,
                                                    Alexa_Presentation_HTML_LifecycleStateChanged,
Alexa_Presentation_PresentationDismissed, AudioPlayer_PlaybackFailed, AudioPlayer_PlaybackFinished,
AudioPlayer_PlaybackNearlyFinished,
                                       AudioPlayer_PlaybackStarted,
                                                                      AudioPlayer_PlaybackStopped,
CardRenderer_DisplayContentFinished,
                                              CardRenderer_DisplayContentStarted,
                                                                                          CardRen-
derer ReadContentFinished,
                                    CardRenderer ReadContentStarted,
                                                                                CustomInterfaceCon-
troller EventsReceived,
                         CustomInterfaceController Expired,
                                                               DeviceSetup SetupCompleted,
                                                                                               Dis-
```

```
play ElementSelected,
                    Display UserEvent,
                                       FitnessSessionController FitnessSessionEnded,
                                                                              Fit-
nessSessionController_FitnessSessionError,
                                     FitnessSessionController FitnessSessionPaused,
                                                                              Fit-
nessSessionController FitnessSessionResumed,
                                             FitnessSessionController FitnessSessionStarted,
GameEngine_InputHandlerEvent,
                                   Messaging_MessageReceived,
                                                                     MessagingCon-
troller_UpdateConversationsStatus,
                               MessagingController_UpdateMessagesStatusRequest,
                                                                            Mes-
sagingController UpdateSendMessageStatusRequest,
                                                MessagingController UploadConversations,
PlaybackController NextCommandIssued,
                                    PlaybackController PauseCommandIssued,
                                                                         Playback-
                                                                        EffectsCon-
Controller_PlayCommandIssued,
                               PlaybackController_PreviousCommandIssued,
troller RequestEffectChangeRequest,
                                EffectsController_RequestGuiChangeRequest,
                                                                        EffectsCon-
troller_StateReceiptChangeRequest]
ALL_LISTS_CHANGED = 'ALL_LISTS_CHANGED'
AUDIO_ITEM_PLAYBACK_FAILED = 'AUDIO_ITEM_PLAYBACK_FAILED'
AUDIO_ITEM_PLAYBACK_FINISHED = 'AUDIO_ITEM_PLAYBACK_FINISHED'
AUDIO_ITEM_PLAYBACK_STARTED = 'AUDIO_ITEM_PLAYBACK_STARTED'
AUDIO_ITEM_PLAYBACK_STOPPED = 'AUDIO_ITEM_PLAYBACK_STOPPED'
Alexa_Camera_PhotoCaptureController_CancelCaptureFailed = 'Alexa.Camera.PhotoCaptureCo
Alexa_Camera_PhotoCaptureController_CancelCaptureFinished = 'Alexa.Camera.PhotoCapture
Alexa_Camera_PhotoCaptureController_CaptureFailed = 'Alexa.Camera.PhotoCaptureControll
Alexa_Camera_PhotoCaptureController_CaptureFinished = 'Alexa.Camera.PhotoCaptureContro
Alexa_Camera_VideoCaptureController_CancelCaptureFailed = 'Alexa.Camera.VideoCaptureCo
Alexa_Camera_VideoCaptureController_CancelCaptureFinished = 'Alexa.Camera.VideoCapture
Alexa_Camera_VideoCaptureController_CaptureFailed = 'Alexa.Camera.VideoCaptureControll
Alexa_Camera_VideoCaptureController_CaptureFinished = 'Alexa.Camera.VideoCaptureContro
Alexa_Camera_VideoCaptureController_CaptureStarted = 'Alexa.Camera.VideoCaptureControl
Alexa_FileManager_UploadController_CancelUploadFailed = 'Alexa.FileManager.UploadContr
Alexa_FileManager_UploadController_CancelUploadFinished = 'Alexa.FileManager.UploadCon
Alexa_FileManager_UploadController_UploadFailed = 'Alexa.FileManager.UploadController.'
Alexa_FileManager_UploadController_UploadFinished = 'Alexa.FileManager.UploadControlle
Alexa_FileManager_UploadController_UploadStarted = 'Alexa.FileManager.UploadController
Alexa_Presentation_APL_UserEvent = 'Alexa.Presentation.APL.UserEvent'
Alexa_Presentation_HTML_Event = 'Alexa.Presentation.HTML.Event'
Alexa_Presentation_HTML_LifecycleStateChanged = 'Alexa.Presentation.HTML.LifecycleStat
Alexa_Presentation_PresentationDismissed = 'Alexa.Presentation.PresentationDismissed'
AudioPlayer_PlaybackFailed = 'AudioPlayer.PlaybackFailed'
AudioPlayer_PlaybackFinished = 'AudioPlayer.PlaybackFinished'
AudioPlayer_PlaybackNearlyFinished = 'AudioPlayer.PlaybackNearlyFinished'
AudioPlayer_PlaybackStarted = 'AudioPlayer.PlaybackStarted'
AudioPlayer_PlaybackStopped = 'AudioPlayer.PlaybackStopped'
CardRenderer_DisplayContentFinished = 'CardRenderer.DisplayContentFinished'
```

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CardRenderer_DisplayContentStarted = 'CardRenderer.DisplayContentStarted'
CardRenderer ReadContentFinished = 'CardRenderer.ReadContentFinished'
CardRenderer_ReadContentStarted = 'CardRenderer.ReadContentStarted'
CustomInterfaceController_EventsReceived = 'CustomInterfaceController.EventsReceived'
CustomInterfaceController Expired = 'CustomInterfaceController.Expired'
DeviceSetup_SetupCompleted = 'DeviceSetup.SetupCompleted'
Display_ElementSelected = 'Display.ElementSelected'
Display_UserEvent = 'Display.UserEvent'
EffectsController_RequestEffectChangeRequest = 'EffectsController.RequestEffectChangeR
EffectsController_RequestGuiChangeRequest = 'EffectsController.RequestGuiChangeRequest
EffectsController_StateReceiptChangeRequest = 'EffectsController.StateReceiptChangeReq
FitnessSessionController_FitnessSessionEnded = 'FitnessSessionController.FitnessSessio
FitnessSessionController FitnessSessionError = 'FitnessSessionController.FitnessSessio
FitnessSessionController_FitnessSessionPaused = 'FitnessSessionController.FitnessSessi
FitnessSessionController_FitnessSessionResumed = 'FitnessSessionController.FitnessSess
FitnessSessionController FitnessSessionStarted = 'FitnessSessionController.FitnessSess
GameEngine InputHandlerEvent = 'GameEngine.InputHandlerEvent'
IN SKILL PRODUCT SUBSCRIPTION ENDED = 'IN SKILL PRODUCT SUBSCRIPTION ENDED'
IN_SKILL_PRODUCT_SUBSCRIPTION_RENEWED = 'IN_SKILL_PRODUCT_SUBSCRIPTION_RENEWED'
IN SKILL PRODUCT SUBSCRIPTION STARTED = 'IN SKILL PRODUCT SUBSCRIPTION STARTED'
ITEMS_CREATED = 'ITEMS_CREATED'
ITEMS_DELETED = 'ITEMS_DELETED'
ITEMS_UPDATED = 'ITEMS_UPDATED'
LIST CREATED = 'LIST CREATED'
LIST DELETED = 'LIST DELETED'
LIST UPDATED = 'LIST UPDATED'
Legacy_ActivityManager_ActivityContextRemovedEvent = 'Legacy.ActivityManager.ActivityC
Legacy_ActivityManager_ActivityInterrupted = 'Legacy.ActivityManager.ActivityInterrupt
Legacy_ActivityManager_FocusChanged = 'Legacy.ActivityManager.FocusChanged'
Legacy_AlertsController_DismissCommand = 'Legacy.AlertsController.DismissCommand'
Legacy_AlertsController_SnoozeCommand = 'Legacy.AlertsController.SnoozeCommand'
Legacy_AudioPlayerGui_ButtonClickedEvent = 'Legacy.AudioPlayerGui.ButtonClickedEvent'
Legacy_AudioPlayerGui_LyricsViewedEvent = 'Legacy.AudioPlayerGui.LyricsViewedEvent'
Legacy_AudioPlayer_AudioStutter = 'Legacy.AudioPlayer.AudioStutter'
Legacy AudioPlayer InitialPlaybackProgressReport = 'Legacy.AudioPlayer.InitialPlayback
Legacy_AudioPlayer_Metadata = 'Legacy.AudioPlayer.Metadata'
```

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Legacy AudioPlayer PeriodicPlaybackProgressReport = 'Legacy.AudioPlayer.PeriodicPlayba
Legacy_AudioPlayer_PlaybackError = 'Legacy.AudioPlayer.PlaybackError'
Legacy_AudioPlayer_PlaybackFinished = 'Legacy.AudioPlayer.PlaybackFinished'
Legacy_AudioPlayer_PlaybackIdle = 'Legacy.AudioPlayer.PlaybackIdle'
Legacy AudioPlayer PlaybackInterrupted = 'Legacy.AudioPlayer.PlaybackInterrupted'
Legacy AudioPlayer PlaybackNearlyFinished = 'Legacy.AudioPlayer.PlaybackNearlyFinished
Legacy_AudioPlayer_PlaybackPaused = 'Legacy.AudioPlayer.PlaybackPaused'
Legacy_AudioPlayer_PlaybackResumed = 'Legacy.AudioPlayer.PlaybackResumed'
Legacy_AudioPlayer_PlaybackStarted = 'Legacy.AudioPlayer.PlaybackStarted'
Legacy_AudioPlayer_PlaybackStutterFinished = 'Legacy.AudioPlayer.PlaybackStutterFinish
Legacy_AudioPlayer_PlaybackStutterStarted = 'Legacy.AudioPlayer.PlaybackStutterStarted
Legacy_AuxController_DirectionChanged = 'Legacy.AuxController.DirectionChanged'
Legacy_AuxController_EnabledStateChanged = 'Legacy.AuxController.EnabledStateChanged'
Legacy_AuxController_InputActivityStateChanged = 'Legacy.AuxController.InputActivitySt
Legacy_AuxController_PluggedStateChanged = 'Legacy.AuxController.PluggedStateChanged'
Legacy BluetoothNetwork CancelPairingMode = 'Legacy.BluetoothNetwork.CancelPairingMode
Legacy_BluetoothNetwork_DeviceConnectedFailure = 'Legacy.BluetoothNetwork.DeviceConnec
Legacy_BluetoothNetwork_DeviceConnectedSuccess = 'Legacy.BluetoothNetwork.DeviceConnec
Legacy_BluetoothNetwork_DeviceDisconnectedFailure = 'Legacy.BluetoothNetwork.DeviceDis
Legacy_BluetoothNetwork_DeviceDisconnectedSuccess = 'Legacy.BluetoothNetwork.DeviceDis
Legacy_BluetoothNetwork_DevicePairFailure = 'Legacy.BluetoothNetwork.DevicePairFailure
Legacy_BluetoothNetwork_DevicePairSuccess = 'Legacy.BluetoothNetwork.DevicePairSuccess
Legacy_BluetoothNetwork_DeviceUnpairFailure = 'Legacy.BluetoothNetwork.DeviceUnpairFai
Legacy BluetoothNetwork DeviceUnpairSuccess = 'Legacy.BluetoothNetwork.DeviceUnpairSuc
Legacy_BluetoothNetwork_EnterPairingModeFailure = 'Legacy.BluetoothNetwork.EnterPairin
Legacy_BluetoothNetwork_EnterPairingModeSuccess = 'Legacy.BluetoothNetwork.EnterPairin
Legacy_BluetoothNetwork_MediaControlFailure = 'Legacy.BluetoothNetwork.MediaControlFai
Legacy_BluetoothNetwork_MediaControlSuccess = 'Legacy.BluetoothNetwork.MediaControlSuc
Legacy_BluetoothNetwork_ScanDevicesReport = 'Legacy.BluetoothNetwork.ScanDevicesReport
Legacy_BluetoothNetwork_SetDeviceCategoriesFailed = 'Legacy.BluetoothNetwork.SetDevice
Legacy_BluetoothNetwork_SetDeviceCategoriesSucceeded = 'Legacy.BluetoothNetwork.SetDev
Legacy_ContentManager_ContentPlaybackTerminated = 'Legacy.ContentManager.ContentPlayba
Legacy_DeviceNotification_DeleteNotificationFailed = 'Legacy.DeviceNotification.Delete
Legacy_DeviceNotification_DeleteNotificationSucceeded = 'Legacy.DeviceNotification.Del
Legacy_DeviceNotification_NotificationEnteredBackground = 'Legacy.DeviceNotification.N
Legacy_DeviceNotification_NotificationEnteredForground = 'Legacy.DeviceNotification.No
```

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Legacy_DeviceNotification_NotificationStarted = 'Legacy.DeviceNotification.Notificatio
Legacy_DeviceNotification_NotificationStopped = 'Legacy.DeviceNotification.Notificatio
Legacy_DeviceNotification_NotificationSync = 'Legacy.DeviceNotification.NotificationSy
Legacy_DeviceNotification_SetNotificationFailed = 'Legacy.DeviceNotification.SetNotifi
Legacy DeviceNotification SetNotificationSucceeded = 'Legacy.DeviceNotification.SetNot
Legacy EqualizerController EqualizerChanged = 'Legacy.EqualizerController.EqualizerCha
Legacy_ExternalMediaPlayer_AuthorizationComplete = 'Legacy.ExternalMediaPlayer.Authori
Legacy_ExternalMediaPlayer_Error = 'Legacy.ExternalMediaPlayer.Error'
Legacy_ExternalMediaPlayer_Event = 'Legacy.ExternalMediaPlayer.Event'
Legacy_ExternalMediaPlayer_Login = 'Legacy.ExternalMediaPlayer.Login'
Legacy_ExternalMediaPlayer_Logout = 'Legacy.ExternalMediaPlayer.Logout'
Legacy_ExternalMediaPlayer_ReportDiscoveredPlayers = 'Legacy.ExternalMediaPlayer.Repor
Legacy_ExternalMediaPlayer_RequestToken = 'Legacy.ExternalMediaPlayer.RequestToken'
Legacy_FavoritesController_Error = 'Legacy.FavoritesController.Error'
Legacy_FavoritesController_Response = 'Legacy.FavoritesController.Response'
Legacy GameEngine GameInputEvent = 'Legacy.GameEngine.GameInputEvent'
Legacy_HomeAutoWifiController_DeviceReconnected = 'Legacy.HomeAutoWifiController.Devic
Legacy_HomeAutoWifiController_HttpNotified = 'Legacy.HomeAutoWifiController.HttpNotifi
Legacy_HomeAutoWifiController_SsdpDiscoveryFinished = 'Legacy.HomeAutoWifiController.S
Legacy_HomeAutoWifiController_SsdpServiceDiscovered = 'Legacy.HomeAutoWifiController.S
Legacy_HomeAutoWifiController_SsdpServiceTerminated = 'Legacy.HomeAutoWifiController.S
Legacy_ListModel_AddItemRequest = 'Legacy.ListModel.AddItemRequest'
Legacy_ListModel_DeleteItemRequest = 'Legacy.ListModel.DeleteItemRequest'
Legacy_ListModel_GetPageByOrdinalRequest = 'Legacy.ListModel.GetPageByOrdinalRequest'
Legacy ListModel GetPageByTokenRequest = 'Legacy.ListModel.GetPageByTokenRequest'
Legacy_ListModel_ListStateUpdateRequest = 'Legacy.ListModel.ListStateUpdateRequest'
Legacy_ListModel_UpdateItemRequest = 'Legacy.ListModel.UpdateItemRequest'
Legacy_ListRenderer_GetListPageByOrdinal = 'Legacy.ListRenderer.GetListPageByOrdinal'
Legacy_ListRenderer_GetListPageByToken = 'Legacy.ListRenderer.GetListPageByToken'
Legacy_ListRenderer_ListItemEvent = 'Legacy.ListRenderer.ListItemEvent'
Legacy_MediaGrouping_GroupChangeNotificationEvent = 'Legacy.MediaGrouping.GroupChangeN
Legacy_MediaGrouping_GroupChangeResponseEvent = 'Legacy.MediaGrouping.GroupChangeRespo
Legacy_MediaGrouping_GroupSyncEvent = 'Legacy.MediaGrouping.GroupSyncEvent'
Legacy_MediaPlayer_PlaybackError = 'Legacy.MediaPlayer.PlaybackError'
Legacy_MediaPlayer_PlaybackFinished = 'Legacy.MediaPlayer.PlaybackFinished'
Legacy_MediaPlayer_PlaybackIdle = 'Legacy.MediaPlayer.PlaybackIdle'
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Legacy_MediaPlayer_PlaybackNearlyFinished = 'Legacy.MediaPlayer.PlaybackNearlyFinished
Legacy_MediaPlayer_PlaybackPaused = 'Legacy.MediaPlayer.PlaybackPaused'
Legacy_MediaPlayer_PlaybackResumed = 'Legacy.MediaPlayer.PlaybackResumed'
Legacy_MediaPlayer_PlaybackStarted = 'Legacy.MediaPlayer.PlaybackStarted'
Legacy MediaPlayer PlaybackStopped = 'Legacy.MediaPlayer.PlaybackStopped'
Legacy MediaPlayer SequenceItemsRequested = 'Legacy.MediaPlayer.SequenceItemsRequested
Legacy_MediaPlayer_SequenceModified = 'Legacy.MediaPlayer.SequenceModified'
Legacy_MeetingClientController_Event = 'Legacy.MeetingClientController.Event'
Legacy_Microphone_AudioRecording = 'Legacy.Microphone.AudioRecording'
Legacy_PhoneCallController_Event = 'Legacy.PhoneCallController.Event'
Legacy_PlaybackController_ButtonCommand = 'Legacy.PlaybackController.ButtonCommand'
Legacy_PlaybackController_LyricsViewedEvent = 'Legacy.PlaybackController.LyricsViewedE
Legacy_PlaybackController_NextCommand = 'Legacy.PlaybackController.NextCommand'
Legacy_PlaybackController_PauseCommand = 'Legacy.PlaybackController.PauseCommand'
Legacy_PlaybackController_PlayCommand = 'Legacy.PlaybackController.PlayCommand'
Legacy_PlaybackController_PreviousCommand = 'Legacy.PlaybackController.PreviousCommand
Legacy_PlaybackController_ToggleCommand = 'Legacy.PlaybackController.ToggleCommand'
Legacy_PlaylistController_ErrorResponse = 'Legacy.PlaylistController.ErrorResponse'
Legacy_PlaylistController_Response = 'Legacy.PlaylistController.Response'
Legacy_Presentation_PresentationDismissedEvent = 'Legacy.Presentation.PresentationDism
Legacy_Presentation_PresentationUserEvent = 'Legacy.Presentation.PresentationUserEvent
Legacy_SconeRemoteControl_Next = 'Legacy.SconeRemoteControl.Next'
Legacy_SconeRemoteControl_PlayPause = 'Legacy.SconeRemoteControl.PlayPause'
Legacy SconeRemoteControl Previous = 'Legacy.SconeRemoteControl.Previous'
Legacy SconeRemoteControl VolumeDown = 'Legacy.SconeRemoteControl.VolumeDown'
Legacy_SconeRemoteControl_VolumeUp = 'Legacy.SconeRemoteControl.VolumeUp'
Legacy_SipClient_Event = 'Legacy.SipClient.Event'
Legacy_SoftwareUpdate_CheckSoftwareUpdateReport = 'Legacy.SoftwareUpdate.CheckSoftwareUpdateReport = 'Legacy.SoftwareUpdate.CheckSoftwareUpdateReport = 'Legacy.SoftwareUpdateReport 
Legacy_SoftwareUpdate_InitiateSoftwareUpdateReport = 'Legacy.SoftwareUpdate.InitiateSo
Legacy_Speaker_MuteChanged = 'Legacy.Speaker.MuteChanged'
Legacy_Speaker_VolumeChanged = 'Legacy.Speaker.VolumeChanged'
Legacy_SpeechRecognizer_WakeWordChanged = 'Legacy.SpeechRecognizer.WakeWordChanged'
Legacy_SpeechSynthesizer_SpeechFinished = 'Legacy.SpeechSynthesizer.SpeechFinished'
Legacy_SpeechSynthesizer_SpeechInterrupted = 'Legacy.SpeechSynthesizer.SpeechInterrupt
Legacy SpeechSynthesizer SpeechStarted = 'Legacy.SpeechSynthesizer.SpeechStarted'
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Legacy_SpeechSynthesizer_SpeechSynthesizerError = 'Legacy.SpeechSynthesizer.SpeechSynt

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Legacy_Spotify_Event = 'Legacy.Spotify.Event'
Legacy_System_UserInactivity = 'Legacy.System.UserInactivity'
Legacy_UDPController_BroadcastResponse = 'Legacy.UDPController.BroadcastResponse'
LocalApplication_AlexaNotifications_Event = 'LocalApplication.AlexaNotifications.Event
LocalApplication AlexaPlatformTestSpeechlet Event = 'LocalApplication.AlexaPlatformTes
LocalApplication_AlexaVision_Event = 'LocalApplication.AlexaVision.Event'
LocalApplication_AlexaVoiceLayer_Event = 'LocalApplication.AlexaVoiceLayer.Event'
LocalApplication_Alexa_Translation_LiveTranslation_Event = 'LocalApplication.Alexa.Tra
LocalApplication_AvaPhysicalShopping_Event = 'LocalApplication.AvaPhysicalShopping.Eve
LocalApplication_Calendar_Event = 'LocalApplication.Calendar.Event'
LocalApplication_Closet_Event = 'LocalApplication.Closet.Event'
LocalApplication_Communications_Event = 'LocalApplication.Communications.Event'
LocalApplication_DeviceMessaging_Event = 'LocalApplication.DeviceMessaging.Event'
LocalApplication_DigitalDash_Event = 'LocalApplication.DigitalDash.Event'
LocalApplication_FireflyShopping_Event = 'LocalApplication.FireflyShopping.Event'
LocalApplication Gallery Event = 'LocalApplication.Gallery.Event'
LocalApplication_HHOPhotos_Event = 'LocalApplication.HHOPhotos.Event'
LocalApplication_HomeAutomationMedia_Event = 'LocalApplication.HomeAutomationMedia.Eve
LocalApplication_KnightContacts_Event = 'LocalApplication.KnightContacts.Event'
LocalApplication_KnightHomeThingsToTry_Event = 'LocalApplication.KnightHomeThingsToTry
LocalApplication_KnightHome_Event = 'LocalApplication.KnightHome.Event'
LocalApplication_LocalMediaPlayer_Event = 'LocalApplication.LocalMediaPlayer.Event'
LocalApplication_LocalVoiceUI_Event = 'LocalApplication.LocalVoiceUI.Event'
LocalApplication_MShopPurchasing_Event = 'LocalApplication.MShopPurchasing.Event'
LocalApplication_MShop_Event = 'LocalApplication.MShop.Event'
LocalApplication_NotificationsApp_Event = 'LocalApplication.NotificationsApp.Event'
LocalApplication_Photos_Event = 'LocalApplication.Photos.Event'
LocalApplication_Sentry_Event = 'LocalApplication.Sentry.Event'
LocalApplication_SipClient_Event = 'LocalApplication.SipClient.Event'
LocalApplication_SipUserAgent_Event = 'LocalApplication.SipUserAgent.Event'
LocalApplication_VideoExperienceService_Event = 'LocalApplication.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
    to_str()
        Returns the string representation of the model
ask_smapi_model.v1.skill.manifest.event_publications module
class ask smapi model.v1.skill.manifest.event publications.EventPublications(event name=None)
    Bases: object
        Parameters event_name ((optional) str) – Name of the event to publish.
    attribute_map = {'event_name': 'eventName'}
    deserialized types = {'event name': 'str'}
    supports_multiple_types = False
    to dict()
        Returns the model properties as a dict
    to_str()
        Returns the string representation of the model
ask_smapi_model.v1.skill.manifest.flash_briefing_apis module
class ask_smapi_model.v1.skill.manifest.flash_briefing_apis.FlashBriefingApis(locales=None)
    Bases: object
```

```
Defines the structure for flash briefing api of the skill.
         Parameters locales
                                          ((optional) dict(str, ask_smapi_model.
            v1.skill.manifest.localized flash briefing info.
            LocalizedFlashBriefingInfo)) - Defines the structure for locale specific flash
            briefing api information.
    attribute map = {'locales': 'locales'}
    deserialized types = { 'locales': 'dict(str, ask smapi model.v1.skill.manifest.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.gadget_controller_interface.GadgetControllerInterface.
    Bases: ask smapi model.v1.skill.manifest.interface.Interface
    Skills using Gadget Controller can send directives to Echo Buttons. This is a legacy interface specific to Echo
    Buttons.
    attribute_map = {'object_type': 'type'}
    deserialized_types = {'object_type': 'str'}
    supports_multiple_types = False
    to_dict()
         Returns the model properties as a dict
         Returns the string representation of the model
```

```
ask_smapi_model.v1.skill.manifest.gadget_support module
```

```
class ask_smapi_model.v1.skill.manifest.gadget_support.GadgetSupport
    Bases: enum. Enum
    Specifies if gadget support is required/optional for this skill to work.
    Allowed enum values: [REQUIRED, OPTIONAL]
    OPTIONAL = 'OPTIONAL'
    REQUIRED = 'REQUIRED'
    to dict()
         Returns the model properties as a dict
    to str()
         Returns the string representation of the model
ask smapi model.v1.skill.manifest.game engine interface module
class ask_smapi_model.v1.skill.manifest.game_engine_interface.GameEngineInterface
    Bases: ask_smapi_model.v1.skill.manifest.interface.Interface
    attribute_map = {'object_type': 'type'}
    deserialized_types = {'object_type': 'str'}
    supports_multiple_types = False
    to dict()
         Returns the model properties as a dict
    to_str()
         Returns the string representation of the model
ask smapi model.v1.skill.manifest.health alias module
class ask_smapi_model.v1.skill.manifest.health_alias.HealthAlias(name=None)
    Bases: object
         Parameters name ((optional) str) – Name of alias to use when invoking a health skill.
    attribute_map = {'name': 'name'}
    deserialized_types = {'name': 'str'}
    supports_multiple_types = False
    to dict()
         Returns the model properties as a dict
    to str()
         Returns the string representation of the model
```

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

Defines the structure of health api in the skill manifest.

Parameters

- regions ((optional) dict(str, ask_smapi_model.v1.skill. manifest.region.Region)) Contains an array of the supported <region> Objects.
- endpoint ((optional) ask_smapi_model.v1.skill.manifest. skill_manifest_endpoint.SkillManifestEndpoint)-
- protocol_version ((optional) ask_smapi_model.v1.skill. manifest.health_protocol_version.HealthProtocolVersion)-
- interfaces ((optional) ask_smapi_model.v1.skill.manifest. health_interface.HealthInterface)-

```
attribute_map = {'endpoint': 'endpoint', 'interfaces': 'interfaces', 'protocol_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

Parameters

- namespace ((optional) str) Name of the interface.
- version ((optional) ask_smapi_model.v1.skill.manifest. version.Version)-
- requests ((optional) list[ask_smapi_model.v1.skill.manifest. health_request.HealthRequest]) Defines the details of requests that a health skill is capable of handling.

```
((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
    to str()
         Returns the string representation of the model
ask smapi model.v1.skill.manifest.house hold list module
class ask_smapi_model.v1.skill.manifest.house_hold_list.HouseHoldList
    Bases: object
    Defines the structure of household list api in the skill manifest.
    attribute_map = {}
    deserialized_types = {}
```

```
supports_multiple_types = False
    to dict()
        Returns the model properties as a dict
    to str()
        Returns the string representation of the model
ask smapi model.v1.skill.manifest.interface module
class ask_smapi_model.v1.skill.manifest.interface.Interface(object_type=None)
    Bases: object
        Parameters object_type((optional) str)-
    Note: This is an abstract class. Use the following mapping, to figure out the model class to be instantiated, that
    sets type variable.
    ALEXA_PRESENTATION_APL: ask_smapi_model.v1.skill.manifest.
    alexa_presentation_apl_interface.AlexaPresentationAplInterface,
    VIDEO APP:
    ask_smapi_model.v1.skill.manifest.video_app_interface.VideoAppInterface,
    CUSTOM_INTERFACE:
    ask_smapi_model.v1.skill.manifest.custom_interface.CustomInterface,
    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
    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
to_str()
    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
```

Returns the string representation of the model

ask smapi model.v1.skill.manifest.localized music info module

Bases: object

to_str()

word-

mark_logos=N

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

num_p num_p

Bases: object

Defines the structure for gadget buttons support in the skill manifest.

Returns the model properties as a dict

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': 'mideserialized_types = {'max_gadget_buttons': 'int', 'min_gadget_buttons': 'int', 'num's supports_multiple_types = False
to dict()
```

```
to str()
         Returns the string representation of the model
ask smapi model.v1.skill.manifest.music alias module
class ask smapi model.v1.skill.manifest.music alias.MusicAlias(name=None)
    Bases: object
         Parameters name ( (optional) str) – Alias name to be associated with the music skill.
    attribute_map = {'name': 'name'}
    deserialized_types = {'name': 'str'}
     supports_multiple_types = False
    to_dict()
         Returns the model properties as a dict
    to str()
         Returns the string representation of the model
ask smapi model.v1.skill.manifest.music apis module
class ask smapi model.v1.skill.manifest.music apis.MusicApis(regions=None,
                                                                        endpoint=None,
                                                                        capabilities=None,
                                                                        interfaces=None,
                                                                        locales=None, con-
                                                                        tent_types=None)
    Bases: object
    Defines the structure of music api in the skill manifest.
         Parameters

    regions

                                ((optional) dict(str, ask_smapi_model.v1.skill.
                manifest.lambda_region.LambdaRegion))-Contains an array of the supported
                <region&gt; Objects.

    endpoint

                                  ((optional) ask_smapi_model.v1.skill.manifest.
                lambda_endpoint.LambdaEndpoint)-
                                       ((optional) list[ask_smapi_model.v1.skill.

    capabilities

                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.
                                       ((optional) list[ask smapi model.v1.skill.

    content types

                manifest.music_content_type.MusicContentType]) - List of the type
                of content to be provided by the music skill.
    attribute_map = {'capabilities': 'capabilities', 'content_types':
                                                                                     'contentTypes', 'e
```

```
deserialized_types = {'capabilities': 'list[ask_smapi_model.v1.skill.manifest.music_c
    supports_multiple_types = False
    to_dict()
         Returns the model properties as a dict
    to str()
         Returns the string representation of the model
ask smapi model.v1.skill.manifest.music capability module
class ask_smapi_model.v1.skill.manifest.music_capability.MusicCapability(namespace=None,
                                                                                     name=None,
                                                                                     ver-
                                                                                     sion=None)
    Bases: object
         Parameters
              • namespace ((optional) str) - Namespace of music skill api.
              • name ((optional) str) - Name of music skill api.
              • version ((optional) str) - Version of music skill api.
    attribute_map = {'name': 'name', 'namespace': 'namespace', 'version': 'version'}
    deserialized_types = {'name': 'str', 'namespace': 'str', 'version': 'str'}
    supports_multiple_types = False
    to dict()
         Returns the model properties as a dict
    to_str()
         Returns the string representation of the model
ask smapi model.v1.skill.manifest.music content name module
class ask_smapi_model.v1.skill.manifest.music_content_name.MusicContentName
    Bases: enum. Enum
    Name of the content type that's supported for the music skill.
    Allowed enum values: [ON_DEMAND, RADIO, PODCAST]
    ON_DEMAND = 'ON_DEMAND'
    PODCAST = 'PODCAST'
    RADIO = 'RADIO'
    to dict()
         Returns the model properties as a dict
    to_str()
         Returns the string representation of the model
```

```
ask smapi model.v1.skill.manifest.music content type module
class ask_smapi_model.v1.skill.manifest.music_content_type.MusicContentType(name=None)
    Bases: object
    Defines the structure for content that can be provided by a music skill.
                                 ((optional) ask_smapi_model.v1.skill.manifest.
         Parameters name
            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
    to str()
        Returns the string representation of the model
ask smapi model.v1.skill.manifest.music request module
class ask_smapi_model.v1.skill.manifest.music_request.MusicRequest(name=None)
    Bases: object
        Parameters name ((optional) str) - Name of the request.
    attribute_map = {'name': 'name'}
    deserialized_types = {'name': 'str'}
    supports_multiple_types = False
    to dict()
        Returns the model properties as a dict
    to str()
        Returns the string representation of the model
ask smapi model.v1.skill.manifest.music wordmark module
class ask_smapi_model.v1.skill.manifest.music_wordmark.MusicWordmark(uri=None)
    Bases: object
        Parameters uri ((optional) str) – Wordmark logo to be used by devices with displays.
    attribute_map = {'uri': 'uri'}
    deserialized types = {'uri': 'str'}
    supports_multiple_types = False
    to dict()
        Returns the model properties as a dict
    to str()
        Returns the string representation of the model
ask smapi model.v1.skill.manifest.permission items module
class ask_smapi_model.v1.skill.manifest.permission_items.PermissionItems(name=None)
    Bases: object
        Parameters name
                                ((optional) ask_smapi_model.v1.skill.manifest.
            permission_name.PermissionName) -
    attribute_map = {'name': 'name'}
    deserialized_types = { 'name': 'ask_smapi_model.v1.skill.manifest.permission_name.Perm
```

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

ask smapi model.v1.skill.manifest.permission name module

```
class ask_smapi_model.v1.skill.manifest.permission_name.PermissionName
    Bases: enum.Enum
```

Name of the required permission.

Allowed enum values: [payments_autopay_consent, alexa_async_event_write, avs_distributed_audio, alexa_devices_all_address_full_read, alexa_devices_all_address_country_and_postal_code_read, alexa_devices_all_geolocation_read, alexa_health_profile_write, alexa_household_lists_read, alexa household lists write, alexa personality explicit read, alexa personality explicit write, alexa profile name read, alexa_profile_email_read, alexa_profile_mobile_number_read, alexa profile given name read, alexa customer id read, alexa person id read, alexa raw person id read, alexa_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 mandatory, alexa authenticate 2 optional, alexa user experience guidance read, 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_quidance_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.
        Parameters endpoint
                               ((optional) ask_smapi_model.v1.skill.manifest.
           skill_manifest_endpoint.SkillManifestEndpoint) -
    attribute_map = {'endpoint': 'endpoint'}
    deserialized_types = {'endpoint': 'ask_smapi_model.v1.skill.manifest.skill_manifest_e
    supports_multiple_types = False
    to dict()
        Returns the model properties as a dict
    to str()
        Returns the string representation of the model
ask smapi model.v1.skill.manifest.request module
class ask_smapi_model.v1.skill.manifest.request.Request(name=None)
    Bases: object
                               ((optional) ask_smapi_model.v1.skill.manifest.
        Parameters name
           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) -
                                                                                       ((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.
                                ((optional) ask_smapi_model.v1.skill.manifest.
               skill_manifest_apis.SkillManifestApis)-
    attribute_map = {'apis': 'apis', 'events': 'events', 'manifest_version':
                                                                                           'manifestV
    deserialized_types = {'apis': 'ask_smapi_model.v1.skill.manifest.skill_manifest_apis.
    supports_multiple_types = False
    to_dict()
        Returns the model properties as a dict
    to_str()
        Returns the string representation of the model
ask_smapi_model.v1.skill.manifest.skill_manifest_apis module
class ask_smapi_model.v1.skill.manifest.skill_manifest_apis.SkillManifestApis(flash_briefing=No
                                                                                        CUS-
                                                                                        tom=None,
                                                                                        smart_home=Non
                                                                                        video=None.
                                                                                        alexa_for_busines
                                                                                        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.
```

manifest.alexa_for_business_apis.AlexaForBusinessApis) -

• household list ((optional) ask smapi model.v1.skill.manifest.

((optional) ask_smapi_model.v1.skill.

((optional) ask_smapi_model.v1.skill.manifest.

((optional) ask_smapi_model.v1.skill.manifest.

video_apis.VideoApis) -

health_apis.HealthApis)-

music_apis.MusicApis) -

house_hold_list.HouseHoldList) -

alexa for business

health

• music

```
attribute_map = {'alexa_for_business': 'alexaForBusiness', 'custom': 'custom', 'flas deserialized_types = {'alexa_for_business': 'ask_smapi_model.v1.skill.manifest.alexa_supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.skill_manifest_custom_task module

class ask_smapi_model.v1.skill.manifest.skill_manifest_custom_task.SkillManifestCustomTask

Bases: object
Defines the name and version of the task that the skill wants to handle.

Parameters
```

- name ((optional) str) Name of the task.
- **version** ((optional) str) Version of the task.

```
attribute_map = {'name': 'name', 'version': 'version'}
deserialized_types = {'name': 'str', 'version': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
```

Returns the string representation of the model

ask_smapi_model.v1.skill.manifest.skill_manifest_endpoint module

Bases: object

Defines the structure for endpoint information in the skill manifest.

Parameters

- uri ((optional) str) Amazon Resource Name (ARN) of the skill's Lambda function or HTTPS URL.
- request_envelope_version_supported((optional) str)-Supported version of the requestEnvelope.
- ssl_certificate_type ((optional) ask_smapi_model.v1.skill. manifest.ssl_certificate_type.SSLCertificateType)-

attribute_map = {'request_envelope_version_supported': 'requestEnvelopeVersionSupport

ssl_ce

publica-

tions=None,

gions=None end-

point=None

```
deserialized_types = {'request_envelope_version_supported': 'str', 'ssl_certificate_t
    supports_multiple_types = False
    to_dict()
        Returns the model properties as a dict
    to str()
         Returns the string representation of the model
ask smapi model.v1.skill.manifest.skill manifest envelope module
class ask_smapi_model.v1.skill.manifest.skill_manifest_envelope.SkillManifestEnvelope (manife
    Bases: object
        Parameters manifest
                                ((optional) ask_smapi_model.v1.skill.manifest.
            skill_manifest.SkillManifest)-
    attribute_map = {'manifest': 'manifest'}
    deserialized_types = {'manifest': 'ask_smapi_model.v1.skill.manifest.skill_manifest.S
    supports_multiple_types = False
    to dict()
         Returns the model properties as a dict
    to str()
         Returns the string representation of the model
ask smapi model.v1.skill.manifest.skill manifest events module
class ask_smapi_model.v1.skill.manifest.skill_manifest_events.SkillManifestEvents(subscription
    Bases: object
    Defines the structure for subscribed events information in the skill manifest.
         Parameters
                                     ((optional) list[ask_smapi_model.v1.skill.

    subscriptions

               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. Skill Manifest Endpoint) -
```

```
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': 'ter
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()
```

ask_smapi_model.v1.skill.manifest.skill_manifest_privacy_and_compliance module

Returns the string representation of the model

```
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.
- critical_data_handling ((optional) ask_smapi_model.v1.skill. manifest.critical_data_handling.CriticalDataHandling)-

```
attribute_map = {'allows_purchases': 'allowsPurchases', 'contains_ads': 'containsAds
deserialized_types = {'allows_purchases': 'bool', 'contains_ads': 'bool', 'critical_
supports_multiple_types = 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

 $\textbf{class} \ \, \texttt{ask_smapi_model.v1.skill.manifest.skill_manifest_publishing_information.Skill\\ \textbf{Manifest_skill_manifest.ski$

Bases: object

Defines the structure for publishing information in the skill manifest.

Parameters

- name ((optional) str) Name of the skill that is displayed to customers in the Alexa app.
- **description** (*(optional) str)* Description of the skill's purpose and feature and how it works. Should describe any prerequisites like hardware or account requirements and detailed steps for the customer to get started. For Flash Briefing skill list the feeds offered within the skill. Use a conversational tone and correct grammar and punctuation. This description displays to customers on the skill detail card in the Alexa app.
- locales ((optional) dict(str, ask_smapi_model.v1.skill. manifest.skill_manifest_localized_publishing_information. SkillManifestLocalizedPublishingInformation)) Defines the structure for locale specific publishing information in the skill manifest.
- is_available_worldwide ((optional) bool) True if the skill should be distributed in all countries where Amazon distributes skill false otherwise.
- distribution_mode ((optional) ask_smapi_model.v1.skill. manifest.distribution_mode.DistributionMode)-
- gadget_support ((optional) ask_smapi_model.v1.skill.manifest. manifest_gadget_support.ManifestGadgetSupport)-
- **testing_instructions** (*(optional) str*) Special instructions provided by the developer to test the skill.
- **category** ((optional) str) Category that best describes a skill. Indicates the filter category for the skill in the Alexa App.

```
    distribution countries

                                             ((optional) list[ask_smapi_model.v1.
                skill.manifest.distribution_countries.DistributionCountries])
                - Selected list of countries provided by the skill owner where Amazon can distribute the
                skill.
    attribute_map = {'category': 'category', 'description': 'description', 'distribution
    deserialized_types = {'category': 'str', 'description': 'str', 'distribution_countri
    supports_multiple_types = False
    to_dict()
         Returns the model properties as a dict
    to str()
         Returns the string representation of the model
ask smapi model.v1.skill.manifest.smart home apis module
class ask smapi model.v1.skill.manifest.smart home apis.SmartHomeApis(regions=None,
                                                                                  end-
                                                                                  point=None,
                                                                                  proto-
                                                                                  col_version=None)
    Bases: object
    Defines the structure for smart home api of the skill.
         Parameters
                                ((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
     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':
     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

    regions

                                 ((optional) dict(str, ask_smapi_model.v1.skill.
                manifest.video_region.VideoRegion)) - Defines the structure for region
                information.

    locales

                                 ((optional) dict(str, ask_smapi_model.v1.skill.
                \verb|manifest.video_apis_locale.VideoApisLocale||) - Defines the structure
                for the locale specific video api information.

    endpoint

                                  ((optional) ask_smapi_model.v1.skill.manifest.
                lambda endpoint.LambdaEndpoint) -
                                 ((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
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-
                                                                                        log_information=None)
    Bases: object
    Defines the structure for localized video api information.
```

Parameters

```
video provider's targeting name.
             • video_provider_logo_uri((optional) str)-

    catalog information

                                           ((optional) list[ask_smapi_model.v1.
               skill.manifest.video catalog info.VideoCatalogInfo]) -
    attribute_map = {'catalog_information': 'catalogInformation', 'video_provider_logo_ur
    deserialized_types = {'catalog_information': 'list[ask_smapi_model.v1.skill.manifest.'
    supports_multiple_types = False
    to_dict()
        Returns the model properties as a dict
    to str()
        Returns the string representation of the model
ask_smapi_model.v1.skill.manifest.video_app_interface module
class ask_smapi_model.v1.skill.manifest.video_app_interface.VideoAppInterface
    Bases: ask_smapi_model.v1.skill.manifest.interface.Interface
    attribute_map = {'object_type': 'type'}
    deserialized_types = {'object_type': 'str'}
    supports_multiple_types = False
    to_dict()
        Returns the model properties as a dict
    to str()
        Returns the string representation of the model
ask smapi model.v1.skill.manifest.video catalog info module
class ask_smapi_model.v1.skill.manifest.video_catalog_info.VideoCatalogInfo(source_id=None)
    Bases: object
        Parameters source_id((optional) str)-
    attribute_map = {'source_id': 'sourceId'}
    deserialized_types = {'source_id': 'str'}
    supports_multiple_types = False
    to_dict()
        Returns the model properties as a dict
    to str()
        Returns the string representation of the model
```

• video_provider_targeting_names ((optional) list[str]) - Defines the

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, upchannel=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

min_hei max_he

Bases: object

Defines a viewport specification.

Parameters

- mode ((optional) ask_smapi_model.v1.skill.manifest. viewport_mode.ViewportMode)-
- **shape** ((optional) ask_smapi_model.v1.skill.manifest. viewport_shape.ViewportShape)-
- min_width ((optional) int) Defines the minimum width of viewport that comply with this specification.
- max_width ((optional) int) Defines the maximum width of viewport that comply with this specification.
- min_height ((optional) int) Defines the minimum height of viewport that comply with this specification.
- max_height ((optional) int) Defines the maximum height of viewport that comply with this specification.

```
attribute_map = {'max_height': 'maxHeight', 'max_width': 'maxWidth', 'min_height':
deserialized_types = {'max_height': 'int', 'max_width': 'int', 'min_height': 'int',
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask smapi model.v1.skill.metrics package

Submodules

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

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

ask smapi model.v1.skill.metrics.get metric data response module

values=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': 'time
deserialized_types = {'metric': 'str', 'next_token': 'str', 'timestamps': 'list[dat
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
    Returns the string representation of the model
```

ask smapi model.v1.skill.metrics.metric module

```
class ask_smapi_model.v1.skill.metrics.metric.Metric
            Bases: enum. Enum
            A distinct set of logic which predictably returns a set of data.
            Allowed enum values: [uniqueCustomers, totalEnablements, totalUtterances, successfulUtterances, failedUtterances, 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'
            to dict()
                       Returns the model properties as a dict
            to_str()
                        Returns the string representation of the model
```

ask_smapi_model.v1.skill.metrics.skill_type module

```
class ask_smapi_model.v1.skill.metrics.skill_type.SkillType
    Bases: enum.Enum
    The type of the skill (custom, smartHome and flashBriefing).
    Allowed enum values: [custom, smartHome, flashBriefing]
    custom = 'custom'
    flashBriefing = 'flashBriefing'
    smartHome = 'smartHome'
    to_dict()
        Returns the model properties as a dict
    to_str()
        Returns the string representation of the model
```

ask_smapi_model.v1.skill.metrics.stage_for_metric module

```
class ask_smapi_model.v1.skill.metrics.stage_for_metric.StageForMetric
    Bases: enum.Enum
    The stage of the skill (live, development).
    Allowed enum values: [live, development]
    development = 'development'
    live = 'live'
    to_dict()
        Returns the model properties as a dict
    to_str()
        Returns the string representation of the model
```

ask_smapi_model.v1.skill.private package

Submodules

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

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

ask smapi model.v1.skill.private.accept status module

```
\begin{tabular}{ll} \textbf{class} & ask\_smapi\_model.v1.skill.private.accept\_status. \textbf{AcceptStatus} \\ & Bases: \verb"enum". Enum" \\ \end{tabular}
```

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_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_distribution_accounts_response.ListPrivate_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]) - 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':
                                                                                                                                                                                                                                '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.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
                                                                              ((optional) ask_smapi_model.v1.skill.private.
                                accept_status
                                    accept_status.AcceptStatus) -
           attribute_map = {'accept_status': 'acceptStatus', 'principal': 'principal'}
```

```
deserialized_types = {'accept_status': 'ask_smapi_model.v1.skill.private.accept_statu
     supports_multiple_types = 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
```

import C.

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

```
ask_smapi_model.v1.skill.simulations.alexa_execution_info module
```

directly from the package, than through the module.

```
class ask smapi model.v1.skill.simulations.alexa execution info.AlexaExecutionInfo(alexa resp
    Bases: object
        Parameters alexa_responses ((optional) list[ask_smapi_model.v1.skill.
            simulations.alexa response.AlexaResponse])-
    attribute_map = {'alexa_responses': 'alexaResponses'}
    deserialized_types = {'alexa_responses': 'list[ask_smapi_model.v1.skill.simulations.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.alexa response module

```
class ask_smapi_model.v1.skill.simulations.alexa_response.AlexaResponse(object_type=None,
                                                                                con-
                                                                                tent=None)
    Bases: object
```

Parameters

- **object_type** ((optional) str) The type of Alexa response
- ((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
    to_str()
         Returns the string representation of the model
ask smapi model.v1.skill.simulations.input module
class ask_smapi_model.v1.skill.simulations.input.Input(content=None)
    Bases: object
         Parameters content ((optional) str) – A string corresponding to the utterance text of what
             a customer would say to Alexa.
```

```
attribute_map = {'content': 'content'}
    deserialized_types = {'content':
    supports_multiple_types = False
    to_dict()
         Returns the model properties as a dict
    to str()
         Returns the string representation of the model
ask smapi model.v1.skill.simulations.invocation request module
class ask_smapi_model.v1.skill.simulations.invocation_request.InvocationRequest (endpoint=None
                                                                                             body=None)
    Bases: object
         Parameters
              • endpoint ((optional) str) - Skill's Lambda or HTTPS endpoint.
              • body ((optional) dict(str, object)) - JSON payload that was sent to the
                skill's Lambda or HTTPS endpoint.
    attribute_map = {'body': 'body', 'endpoint': 'endpoint'}
    deserialized_types = {'body': 'dict(str, object)', 'endpoint': 'str'}
    supports_multiple_types = False
    to dict()
         Returns the model properties as a dict
    to_str()
         Returns the string representation of the model
ask smapi model.v1.skill.simulations.invocation response module
class ask_smapi_model.v1.skill.simulations.invocation_response.InvocationResponse(body=None)
    Bases: object
         Parameters body ((optional) dict(str, object)) - Payload that was returned by the
            skill's Lambda or HTTPS endpoint.
    attribute_map = {'body':
                                 'body'}
    deserialized_types = {'body': 'dict(str, object)'}
    supports_multiple_types = False
    to_dict()
         Returns the model properties as a dict
    to str()
         Returns the string representation of the model
```

```
ask smapi model.v1.skill.simulations.invocations module
ask smapi model.v1.skill.simulations.metrics module
class ask_smapi_model.v1.skill.simulations.metrics.Metrics(skill_execution_time_in_milliseconds=None)
    Bases: object
         Parameters skill_execution_time_in_milliseconds ((optional) int) - How
            long, in milliseconds, it took the skill's Lambda or HTTPS endpoint to process the request.
    attribute_map = {'skill_execution_time_in_milliseconds': 'skillExecutionTimeInMillise
    deserialized_types = {'skill_execution_time_in_milliseconds':
                                                                             'int'}
    supports_multiple_types = False
    to dict()
         Returns the model properties as a dict
    to_str()
         Returns the string representation of the model
ask smapi model.v1.skill.simulations.session module
class ask_smapi_model.v1.skill.simulations.session.Session(mode=None)
    Bases: object
    Session settings for running current simulation.
         Parameters mode
                              ((optional) ask_smapi_model.v1.skill.simulations.
            session_mode.SessionMode) -
    attribute map = {'mode': 'mode'}
    deserialized_types = {'mode': 'ask_smapi_model.v1.skill.simulations.session_mode.Sess
    supports_multiple_types = False
    to dict()
         Returns the model properties as a dict
    to str()
         Returns the string representation of the model
ask_smapi_model.v1.skill.simulations.session mode module
class ask_smapi_model.v1.skill.simulations.session_mode.SessionMode
    Bases: enum. Enum
    Indicate the session mode of the current simulation is using.
    Allowed enum values: [DEFAULT, FORCE_NEW_SESSION]
    DEFAULT = 'DEFAULT'
    FORCE NEW SESSION = 'FORCE NEW SESSION'
    to_dict()
```

Returns the model properties as a dict

to str()

```
Returns the string representation of the model
ask smapi model.v1.skill.simulations.simulation result module
class ask smapi model.v1.skill.simulations.simulation result.SimulationResult(alexa execution 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
                                                                                                 si
    Bases: object
        Parameters
             • input ((optional) ask_smapi_model.v1.skill.simulations.input.
               Input)-
             • device
                            ((optional) ask_smapi_model.v1.skill.simulations.
               device.Device) -
                            ((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)
             • result
                             ((optional) ask_smapi_model.v1.skill.simulations.
               simulation_result.SimulationResult)-
    attribute_map = {'id': 'id', 'result': 'result', 'status': 'status'}
    deserialized_types = {'id': 'str', 'result': 'ask_smapi_model.v1.skill.simulations.s
    supports_multiple_types = False
    to dict()
        Returns the model properties as a dict
        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
```

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-
```

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

to_str()

Returns the string representation of the model

tance=None

status=None)

ask smapi model.v1.skill.validations.response validation importance module

```
class ask_smapi_model.v1.skill.validations.response_validation_importance.ResponseValidation
    Bases: enum. Enum
    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
         Returns the string representation of the model
ask_smapi_model.v1.skill.validations.response_validation_status module
class ask_smapi_model.v1.skill.validations.response_validation_status.ResponseValidationStatus.
    Bases: enum. Enum
    String that specifies status of the validation. Possible values are "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
ask smapi model.v1.skill.validations.validations api request module
class ask_smapi_model.v1.skill.validations.validations_api_request.ValidationsApiRequest (lo
    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': 'lsupports_multiple_types = 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
                         ((optional) ask_smapi_model.v1.skill.build_step_name.

    name

               BuildStepName) -
              • status((optional) ask smapi model.v1.skill.status.Status) -
              errors
                                      ((optional) list[ask_smapi_model.v1.skill.
               standardized_error.StandardizedError])-
    attribute map = {'errors': 'errors', 'name': 'name', 'status': 'status'}
    deserialized_types = {'errors': 'list[ask_smapi_model.v1.skill.standardized_error.Sta
```

```
supports_multiple_types = False
    to dict()
        Returns the model properties as a dict
    to str()
        Returns the string representation of the model
ask smapi model.v1.skill.build step name module
class ask_smapi_model.v1.skill.build_step_name.BuildStepName
    Bases: enum. Enum
    Name of the build step. Possible values - * `DIALOG_MODEL_BUILD` - Build status for
    dialog model. * `LANGUAGE_MODEL_QUICK_BUILD` - Build status for FST model. *
    `LANGUAGE_MODEL_FULL_BUILD` - Build status for statistical model.
                         [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)
    Bases: object
        Parameters
              • vendor_id ( (optional) str) – ID of the vendor owning the skill.

    manifest

                                ((optional) ask_smapi_model.v1.skill.manifest.
               skill_manifest.SkillManifest)-
    attribute_map = {'manifest': 'manifest', 'vendor_id': 'vendorId'}
    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
        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) - Location of the 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,
                                                                                   ex-
                                                                                  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_tag': 'eTag', 'expires_at': 'expiresAt', 'location':
    deserialized_types = {'e_tag': 'str', 'expires_at': 'str', 'location': 'str'}
    supports_multiple_types = False
    to dict()
        Returns the model properties as a dict
    to str()
        Returns the string representation of the model
ask_smapi_model.v1.skill.image_attributes module
class ask_smapi_model.v1.skill.image_attributes.ImageAttributes(dimension=None,
                                                                        size=None)
    Bases: object
    Set of properties of the image provided by the customer.
        Parameters

    dimension

                                           ((optional) ask_smapi_model.v1.skill.
               image_dimension.ImageDimension) -
              • size
                              ((optional) ask_smapi_model.v1.skill.image_size.
               ImageSize) -
    attribute_map = {'dimension': 'dimension', 'size': 'size'}
    deserialized_types = {'dimension': 'ask_smapi_model.v1.skill.image_dimension.ImageDim
```

```
supports_multiple_types = False
    to dict()
         Returns the model properties as a dict
    to str()
         Returns the string representation of the model
ask_smapi_model.v1.skill.image_dimension module
class ask_smapi_model.v1.skill.image_dimension.ImageDimension(width_in_pixels=None,
                                                                        height_in_pixels=None)
    Bases: object
    Dimensions of an image.
         Parameters
              • width_in_pixels((optional) int) - Width of the image in pixels.
              • height_in_pixels ((optional) int) - Height of the image in pixels.
    attribute_map = { 'height_in_pixels': 'heightInPixels', 'width_in_pixels': 'widthInPi
    deserialized_types = {'height_in_pixels': 'int', 'width_in_pixels':
    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.image_size module
class ask_smapi_model.v1.skill.image_size.ImageSize(value=None, unit=None)
    Bases: object
    On disk storage size of image.
         Parameters
              • value ((optional) float) - Value measuring the size of the image.
              • unit
                         ((optional) ask_smapi_model.v1.skill.image_size_unit.
                ImageSizeUnit) -
    attribute_map = {'unit': 'unit', 'value': 'value'}
    deserialized_types = {'unit': 'ask_smapi_model.v1.skill.image_size_unit.ImageSizeUnit
    supports_multiple_types = False
    to_dict()
         Returns the model properties as a dict
    to str()
         Returns the string representation of the model
```

```
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
```

ask smapi model.v1.skill.image size unit module

```
• 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

Bases: object

Contains attributes related to last modification (create/update) request of a resource.

Parameters

```
    status((optional) ask_smapi_model.v1.skill.status.Status) -
    errors ((optional) list[ask_smapi_model.v1.skill.standardized_error.StandardizedError]) -
    warnings ((optional) list[ask_smapi_model.v1.skill.standardized_error.StandardizedError]) -
    build_details ((optional) ask_smapi_model.v1.skill.standardizedError]) -
    build_details.BuildDetails) -
```

```
attribute_map = {'build_details': 'buildDetails', 'errors': 'errors', 'status': 'st
deserialized_types = {'build_details': 'ask_smapi_model.v1.skill.build_details.BuildD
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.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
    to_str()
         Returns the string representation of the model
ask smapi model.v1.skill.publication method module
class ask_smapi_model.v1.skill.publication_method.PublicationMethod
    Bases: enum. Enum
    Determines if the skill should be submitted only for certification and manually publish later or publish immedi-
    ately after the skill is certified. Omitting the publication method will default to auto publishing.
    Allowed enum values: [MANUAL_PUBLISHING, AUTO_PUBLISHING]
    AUTO_PUBLISHING = 'AUTO_PUBLISHING'
    MANUAL_PUBLISHING = 'MANUAL_PUBLISHING'
    to dict()
         Returns the model properties as a dict
    to str()
         Returns the string representation of the model
ask_smapi_model.v1.skill.reason module
class ask_smapi_model.v1.skill.reason.Reason
    Bases: enum. Enum
    The reason to withdraw.
    Allowed
               enum
                       values:
                                    [TEST_SKILL,
                                                     MORE_FEATURES,
                                                                          DISCOVERED ISSUE,
    NOT_RECEIVED_CERTIFICATION_FEEDBACK, NOT_INTEND_TO_PUBLISH, OTHER]
    DISCOVERED_ISSUE = 'DISCOVERED_ISSUE'
    MORE FEATURES = 'MORE FEATURES'
    NOT_INTEND_TO_PUBLISH = 'NOT_INTEND_TO_PUBLISH'
    NOT_RECEIVED_CERTIFICATION_FEEDBACK = 'NOT_RECEIVED_CERTIFICATION_FEEDBACK'
    OTHER = 'OTHER'
    TEST_SKILL = 'TEST_SKILL'
    to dict()
         Returns the model properties as a dict
    to_str()
         Returns the string representation of the model
ask_smapi_model.v1.skill.regional_ssl_certificate module
class ask_smapi_model.v1.skill.regional_ssl_certificate.RegionalSSLCertificate(ssl_certificate=N
    Bases: object
         Parameters ssl certificate ((optional) str)-
```

```
attribute_map = {'ssl_certificate': 'sslCertificate'}
    deserialized_types = {'ssl_certificate': 'str'}
    supports_multiple_types = False
    to_dict()
         Returns the model properties as a dict
    to str()
         Returns the string representation of the model
ask smapi model.v1.skill.resource import status module
```

```
class ask_smapi_model.v1.skill.resource_import_status.ResourceImportStatus(name=None,
                                                                                     sta-
                                                                                     tus=None,
                                                                                     ac-
                                                                                     tion=None,
                                                                                     rors=None,
                                                                                     warn-
                                                                                     ings=None)
```

Bases: object

Defines the structure for a resource deployment status.

- 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. • errors standardized_error.StandardizedError])-
- ((optional) list[ask_smapi_model.v1.skill. standardized_error.StandardizedError])-

```
attribute_map = {'action': 'action', 'errors': 'errors', 'name': 'name', 'status':
deserialized_types = {'action': 'ask_smapi_model.v1.skill.action.Action', 'errors':
supports_multiple_types = False
to dict()
   Returns the model properties as a dict
```

to_str()

Returns the string representation of the model

```
ask smapi model.v1.skill.resource status module
```

```
class ask_smapi_model.v1.skill.resource_status.ResourceStatus(last_update_request=None,
                                                                       e tag=None, ver-
                                                                       sion=None,
                                                                       errors=None,
                                                                       warnings=None)
    Bases: object
    Defines the structure for a resource status.
         Parameters
              • last_update_request
                                           ((optional) ask_smapi_model.v1.skill.
               last_update_request.LastUpdateRequest)-
              • e_tag((optional) str)-An opaque identifier for last successfully updated resource.
              • version ((optional) str) – Version for last successfully built model.
              • errors
                                     ((optional) list[ask_smapi_model.v1.skill.
               standardized_error.StandardizedError])-
                                     ((optional) list[ask_smapi_model.v1.skill.
               standardized_error.StandardizedError])-
    attribute_map = {'e_tag': 'eTag', 'errors': 'errors', 'last_update_request':
                                                                                               'lastU
    deserialized_types = {'e_tag': 'str', 'errors': 'list[ask_smapi_model.v1.skill.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.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
class ask_smapi_model.v1.skill_interaction_model.SkillInteractionModel(locale=None)
    Bases: object
    Status for available interaction models, keyed by locale.
                               ((optional) dict(str, ask_smapi_model.v1.skill.
        Parameters locale
            skill interaction model status. Skill Interaction Model Status))
    attribute_map = {'locale': 'locale'}
    deserialized_types = {'locale': 'dict(str, ask_smapi_model.v1.skill_skill_interaction
    supports multiple types = 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_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.
               last_update_request.LastUpdateRequest) -
             • e_tag((optional) str)-An opaque identifier for last successfully updated resource.
             • version ((optional) str) – Version for last successfully built model.
                                     ((optional) list[ask_smapi_model.v1.skill.
               standardized_error.StandardizedError])-
             warnings
                                     ((optional) list[ask_smapi_model.v1.skill.
               standardized_error.StandardizedError])-
    attribute_map = {'e_tag': 'eTag', 'errors': 'errors', 'last_update_request': 'lastU
    deserialized_types = {'e_tag': 'str', 'errors': 'list[ask_smapi_model.v1.skill.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.skill status module
class ask smapi model.v1.skill.skill status.SkillStatus(manifest=None, interac-
                                                                 tion model=None)
    Bases: object
    Defines the structure for skill status response.
         Parameters

    manifest

                                            ((optional) ask_smapi_model.v1.skill.
                resource_status.ResourceStatus)-
                                            ((optional) ask_smapi_model.v1.skill.

    interaction model

                skill interaction model.SkillInteractionModel) -
    attribute_map = {'interaction_model': 'interactionModel', 'manifest': 'manifest'}
    deserialized_types = {'interaction_model': 'ask_smapi_model.v1.skill.skill_interactio
    supports_multiple_types = False
    to dict()
         Returns the model properties as a dict
    to_str()
         Returns the string representation of the model
ask_smapi_model.v1.skill.skill_summary module
class ask_smapi_model.v1.skill.skill_summary.SkillSummary(skill_id=None,
                                                                   apis=None,
                                                                                 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)-
              • apis
                                      ((optional) list[ask_smapi_model.v1.skill.
```

• 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

publication_status.PublicationStatus) -

• last_updated((optional) datetime)-

skill_summary_apis.SkillSummaryApis]) - List of APIs currently imple-

((optional) ask_smapi_model.v1.skill.

locale.

mented by the skill.

• publication_status

```
• 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-
     alexaForBusiness = 'alexaForBusiness'
     custom = 'custom'
     flashBriefing = 'flashBriefing'
     health = 'health'
     householdList = 'householdList'
     music = 'music'
     smartHome = 'smartHome'
     to dict()
         Returns the model properties as a dict
     to str()
         Returns the string representation of the model
     video = 'video'
ask smapi model.v1.skill.ssl certificate payload module
class ask_smapi_model.v1.skill.ssl_certificate_payload.SSLCertificatePayload(ssl_certificate=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,
                                                                                 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
class ask_smapi_model.v1.skill.standardized_error_code.StandardizedErrorCode
    Bases: enum. Enum
    List of standardized error codes
```

Allowed enum values: [FAILED, IN PROGRESS, SUCCEEDED]

```
Allowed
                     values:
                                 [INVALID DATA TYPE,
                                                       RESOURCE NOT FOUND,
                                                                               IN-
             enum
    VALID CONTENT TYPE,
                             INVALID IMAGE ATTRIBUTES,
                                                           DENIED FEATURE ACCESS,
                            INVALID URL FORMAT,
                                                   UNEXPECTED PROPERTY,
    INVALID URL DOMAIN,
                                                                             MISS-
    ING_REQUIRED_PROPERTY, UNEXPECTED_EMPTY_OBJECT, INVALID_ARRAY_SIZE,
                                                                              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.
```

```
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
    to str()
         Returns the string representation of the model
ask_smapi_model.v1.skill.update_skill_with_package_request module
class ask_smapi_model.v1.skill.update_skill_with_package_request.UpdateSkillWithPackageReq
    Bases: object
         Parameters location ((optional) str) – Location of the 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': 'str'}
    supports_multiple_types = False
    to_dict()
         Returns the model properties as a dict
    to str()
         Returns the string representation of the model
ask_smapi_model.v1.skill.validation_data_types module
class ask_smapi_model.v1.skill.validation_data_types.ValidationDataTypes
    Bases: enum. Enum
    Allowed enum values: [object, boolean, integer, array, string, null]
    array = 'array'
    boolean = 'boolean'
    integer = 'integer'
    null = 'null'
    object = 'object'
    string = 'string'
    to dict()
         Returns the model properties as a dict
    to_str()
         Returns the string representation of the model
```

ask smapi model.v1.skill.validation details module

```
class ask_smapi_model.v1.skill.validation_details.ValidationDetails(actual_image_attributes=None,
                                                                                        tual_number_of_items=None,
                                                                                        ac-
                                                                                        tual_string_length=None,
                                                                                        lowed_content_types=None,
                                                                                        al-
                                                                                        lowed_data_types=None,
                                                                                        al-
                                                                                        lowed image attributes=None,
                                                                                        conflict-
                                                                                        ing instance=None,
                                                                                        pected_instance=None,
                                                                                        ex-
                                                                                        pected_regex_pattern=None,
                                                                                        agree-
                                                                                        ment_type=None,
                                                                                        fea-
                                                                                        ture=None,
                                                                                        inconsis-
                                                                                        tent endpoint=None,
                                                                                        mini-
                                                                                        mum_integer_value=None,
                                                                                        mini-
                                                                                        mum_number_of_items=None,
                                                                                        mini-
                                                                                        mum_string_length=None,
                                                                                        maxi-
                                                                                        mum_integer_value=None,
                                                                                        mum_number_of_items=None,
                                                                                        maxi-
                                                                                        mum_string_length=None,
                                                                                        origi-
                                                                                        nal_endpoint=None,
                                                                                        origi-
                                                                                        nal_instance=None,
                                                                                        quired_property=None,
                                                                                        unex-
                                                                                        pected_property=None)
```

Bases: object

Standardized, machine readable structure that wraps all the information about a specific occurrence of an error of the type specified by the code.

Parameters

• actual_image_attributes ((optional) ask_smapi_model.v1.skill. image_attributes.ImageAttributes) - Set of properties of the image provided by the customer.

- actual_number_of_items ((optional) int) Number of items in an array provided by the customer.
- actual_string_length ((optional) int) Number of characters in a string provided by the customer.
- allowed_content_types ((optional) list[str]) List of allowed content types for a resource.
- allowed_data_types ((optional) list[ask_smapi_model.v1.skill. validation_data_types.ValidationDataTypes]) List of allowed data types for an instance.
- allowed_image_attributes ((optional) list[ask_smapi_model.v1. skill.image_attributes.ImageAttributes]) List of set of properties representing all possible allowed images.
- conflicting_instance ((optional) ask_smapi_model.v1.skill. instance.Instance) Instance conflicting with another instance.
- expected_instance ((optional) ask_smapi_model.v1.skill. instance.Instance) Instance that is expected by a related instance.
- **expected_regex_pattern** (*(optional) str*) Regular expression that a string instance is expected to match.
- agreement_type ((optional) ask_smapi_model.v1.skill. agreement_type.AgreementType) Type of the agreement that the customer must be compliant to.
- **feature** ((optional) ask_smapi_model.v1.skill. validation_feature.ValidationFeature) Properties of a publicly known feature that has restricted access.
- inconsistent_endpoint ((optional) ask_smapi_model.v1.skill. validation_endpoint.ValidationEndpoint) Endpoint which has a different value for property named type when compared to original endpoint.
- minimum_integer_value ((optional) int) Minimum allowed value of an integer instance.
- minimum_number_of_items ((optional) int) Minimum allowed number of items in an array.
- minimum_string_length ((optional) int) Minimum allowed number of characters in a string.
- maximum_integer_value ((optional) int) Maximum allowed value of an integer instance.
- maximum_number_of_items ((optional) int) Maximum allowed number of items in an array.
- maximum_string_length ((optional) int) Maximum allowed number of characters in a string.
- original_endpoint ((optional) ask_smapi_model.v1.skill. validation_endpoint.ValidationEndpoint) An Endpoint instance
- original_instance ((optional) ask_smapi_model.v1.skill. instance.Instance) An Instance

```
    required_property((optional) str) - Property required but missing in the object.
    unexpected_property((optional) str) - Property not expected but present in the object.
    attribute_map = {'actual_image_attributes': 'actualImageAttributes', 'actual_number_o deserialized_types = {'actual_image_attributes': 'ask_smapi_model.v1.skill.image_attr supports_multiple_types = False
```

to_dict()

Returns the model properties as a dict

to_str()

Returns the string representation of the model

ask smapi model.v1.skill.validation endpoint module

Bases: object

Structure representing an endpoint.

Parameters

- property_path ((optional) str) Path to the endpoint URI in the resource.
- object_type ((optional) str) Type of the endpoint (https, http, arn etc).
- value ((optional) str) Full URI of the endpoint.

```
attribute_map = {'object_type': 'type', 'property_path': 'propertyPath', 'value': '
deserialized_types = {'object_type': 'str', 'property_path': 'str', 'value': 'str'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
```

Returns the string representation of the model

ask smapi model.v1.skill.validation feature module

Bases: object

to str()

Structure representing a public feature.

Parameters

- name ((optional) str) Name of the feature.
- contact ((optional) str) Contact URL or email for the feature.

10.1. Subpackages 537

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

ask smapi model.v1.skill.withdraw request module

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

```
\begin{tabular}{ll} \textbf{class} & ask\_smapi\_model.v1.vendor\_management.vendor.\textbf{Vendor}(name=None, & id=None, \\ & & roles=None) \end{tabular} Bases: object
```

Vendor Response Object.

Parameters

```
• name ((optional) str) - Name of vendor.
```

• id ((optional) str) - Unique identifier of vendor associated with the API caller account.

• roles ((optional) list[str]) - Roles that user has for this vendor.

```
attribute_map = {'id': 'id', 'name': 'name', 'roles': 'roles'}
deserialized_types = {'id': 'str', 'name': 'str', 'roles': 'list[str]'}
supports_multiple_types = False
to_dict()
    Returns the model properties as a dict
to_str()
```

ask smapi model.v1.vendor management.vendors module

Returns the string representation of the model

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

Parameters

10.1. Subpackages 539

```
• 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
    to str()
         Returns the string representation of the model
ask smapi model.v1.stage type module
class ask_smapi_model.v1.stage_type.StageType
    Bases: enum. Enum
    Allowed enum values: [development, live]
    development = 'development'
    live = 'live'
    to_dict()
         Returns the model properties as a dict
    to str()
         Returns the string representation of the model
ask smapi model.v1.stage v2 type module
class ask_smapi_model.v1.stage_v2_type.StageV2Type
    Bases: enum. Enum
    Allowed enum values: [live, certified, development]
    certified = 'certified'
    development = 'development'
    live = 'live'
    to_dict()
         Returns the model properties as a dict
```

10.1. Subpackages 541

Returns the string representation of the model

| Alexa Skills Kit SDK for Python Documentation, Release 1.13.0 | |
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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.

CHAPTER 13

Indices and tables

- genindex
- modindex

```
a
                                                                                                  ask_sdk_model.dialog.dynamic_entities_directive,
ask_sdk.standard,39
ask sdk core.api client, 27
\verb|ask_sdk_core.dispatch_components.exception| \verb|sk_components.exception| \end{tikzpicture} \label{tikzpicture}
ask_sdk_core.dispatch_components.request_a&bmpdkemedel.dialog_state,314
                                                                                                 ask_sdk_model.directive, 314
                                                                                                 ask_sdk_model.er.dynamic.entity,71
ask_sdk_core.exceptions, 28
                                                                                                  ask_sdk_model.er.dynamic.entity_list_item,
ask_sdk_core.response_helper, 18
ask_sdk_core.serialize, 28
                                                                                                  ask_sdk_model.er.dynamic.entity_value_and_synonyms.
ask_sdk_core.skill, 20
ask_sdk_core.skill_builder, 21
                                                                                                  ask_sdk_model.er.dynamic.update_behavior,
ask_sdk_core.utils.predicate, 29
ask_sdk_core.utils.request_util, 31
                                                                                                  ask_sdk_model.events.skillevents.account_linked_boo
ask_sdk_core.utils.viewport, 30
ask_sdk_dynamodb.adapter, 35
                                                                                                  ask sdk model.events.skillevents.account linked red
ask_sdk_dynamodb.partition_keygen, 36
ask_sdk_model.application, 311
ask\_sdk\_model.canfulfill\_int \underline{\texttt{enk}}, sdk\_model.events.skillevents.permission,
ask_sdk_model.canfulfill.can_fulfill_intent_setungelel.events.skillevents.permission_accepte
\verb|ask_sdk_model.canfulfill_sloe, sk_sdk_model.events.skillevents.permission\_changed ask_sdk_model.events.skillevents.permission\_changed ask_sdk_model.events.skillevents.permission\_changed ask_sdk_model.events.skillevents.permission\_changed ask_sdk_model.events.skillevents.permission\_changed ask_sdk_model.events.skillevents.permission\_changed ask_sdk_model.events.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents
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ask_sdk_model.events.skillevents.proactive_subscrip
ask_sdk_model.cause, 311
ask_sdk_model.connection_completed, 312
                                                                                                  ask_sdk_model.events.skillevents.skill_disabled_red
ask_sdk_model.context,312
ask_sdk_model.device, 313
ask_sdk_model.dialog.confirm_intent_dire\mathfrak{det}_{\mathbf{ve}}dk_model.events.skillevents.skill_enabled_req
ask_sdk_model.dialog.confirm_slot_direct48&_sdk_model.intent,317
                                                                                                  ask_sdk_model.intent_confirmation_status,
ask_sdk_model.dialog.delegate_directive,
                                                                                                 ask_sdk_model.intent_request, 318
```

```
ask_sdk_model.interfaces.alexa.presentatask_apk_modexa_pneeefiaetsoalexa_pneeefiaetsoalexa.pneeefiaetion.apl.med
ask_sdk_model.interfaces.alexa.presentatask_apk_moden,interfaces.alexa.presentation.apl.mo
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ask_sdk_model.interfaces.alexa.presentatask_apk_modponenteefitates, alexa.presentation.apl.sc
ask_sdk_model.interfaces.alexa.presentatask_apk_modeonentesfates.alexa.presentation.apl.sc
                                               103
ask_sdk_model.interfaces.alexa.presentatask_apk_modponentevfaceseaeneeneentation.apl.se
ask_sdk_model.interfaces.alexa.presentatask_apk_modeonentevfacesteadexacpresentiationemptase
ask_sdk_model.interfaces.alexa.presentatask_apk_modponenterfaceseadexacpeesehtat<u>i</u>bagapl.se
                                               106
ask_sdk_model.interfaces.alexa.presentatask_apk_modponentevfaceseaenedtaonagpl.se
                                               106
ask_sdk_model.interfaces.alexa.presentatask_apk_modeonentevfaceseacemedtaonagostae
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ask_sdk_model.interfaces.alexa.presentatask_apk_modponentevfaceseaenementataskapltaska
                                               109
ask_sdk_model.interfaces.alexa.presentatåsk_apk_modponentevfaceseadexscpeesestatoldabåpltage
                                               109
ask_sdk_model.interfaces.alexa.presentatask_apk_modeonentevfaceseaenagenageion.apl.spe
                                               110
ask_sdk_model.interfaces.alexa.presentatask_apk_modpdnent<u>e</u>vfaceste<u>adexacpeese</u>wiewpomt<u>a</u>pagtra
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                                               111
ask_sdk_model.interfaces.alexa.presentatask_apk_madeutentemmands_dlexatpresentation.apl.vic
ask_sdk_model.interfaces.alexa.presentatask_apk_modelightemodees.alexa.presentation.aplt.al
ask_sdk_model.interfaces.alexa.presentatask_apk_moddelcommendaces.alexa.presentation.aplt.a
```

```
ask_sdk_model.interfaces.alexa.presentatask_apktmodmmandterfaces.amazonpay.model.request.b.
            114
                                                                                    133
ask_sdk_model.interfaces.alexa.presentatask_apktmedecutateomimaandsamazeopayemodel.request.pa
                                                                                    133
ask_sdk_model.interfaces.alexa.presentatask_apktmodee.commandces.amazonpay.model.request.pr
                                                                                    134
ask_sdk_model.interfaces.alexa.presentatask_apktmpdeallefecommendamazonpay.model.request.pr
                                                                                    134
ask_sdk_model.interfaces.alexa.presentatask_apktmpdeltinterfaces.amazonpay.model.request.p
                                                                                    135
ask_sdk_model.interfaces.alexa.presentatask_apktmodedernderomees_dmaconpay,model.request.se
                                                                                    135
ask_sdk_model.interfaces.alexa.presentatask_apktmodetimeterfaces.amazonpay.model.request.se
                                                                                    136
ask_sdk_model.interfaces.alexa.presentatask_apktmsdeblintemmfands.amazonpay.model.response.a
ask_sdk_model.interfaces.alexa.presentatask_apktmoded_ewearfacemaamazonpay.model.response.a
                                                                                    139
ask_sdk_model.interfaces.alexa.presentatask_apktmsdqhennterfacemmaamazonpay.model.response.l
ask_sdk_model.interfaces.alexa.presentatask_apktmsdelpageerommendamazonpay.model.response.c
ask_sdk_model.interfaces.alexa.presentatask_apktmsdelvanterfammandmazonpay.model.response.
ask_sdk_model.interfaces.alexa.presentatask_apktmbdedetnbeefaces.amazonpay.model.response.
                                                                                    142
ask_sdk_model.interfaces.alexa.presentatask_apktmader_ewentfaces.amazonpay.model.response.
ask_sdk_model.interfaces.alexa.presentatask_bdhlmadexaipreseatesiamahbmhaynmadeacel.author.
                                                                                    144
ask_sdk_model.interfaces.alexa.presentatask_bdhlmodefignterfaces.amazonpay.model.v1.author.
            125
                                                                                    145
ask_sdk_model.interfaces.alexa.presentatask_bdhlmbdedlenmersagesdamerbhpey.model.v1.author.
                                                                                    146
ask_sdk_model.interfaces.alexa.presentatask_bdhlmmdesaageteegaees,amazonpay.model.v1.billing
ask_sdk_model.interfaces.alexa.presentatask_bdhlmodetimeterfaces.amazonpay.model.v1.billing
ask_sdk_model.interfaces.alexa.presentatask_bdhlmsdertidteefacve,amazonpay.model.v1.billind
            127
                                                                                    148
ask_sdk_model.interfaces.alexa.presentatask_bdhlmsdertimequestes.amazonpay.model.v1.billing
                                                                                    149
ask_sdk_model.interfaces.alexa.presentatask_bdhlmsdertintequestemeahedonpay.model.v1.destindestindestindestindestindestindestemeahedonpay.model.v1.destindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindestindes
                                                                                    150
ask_sdk_model.interfaces.alexa.presentatask_bdhlmbdehsfptmefaces.amazonpay.model.v1.payment
ask_sdk_model.interfaces.alexa.presentatask_bdhlmbdahsfprmefatypeamazonpay.model.v1.price,
                                                                                    151
ask_sdk_model.interfaces.amazonpay.modelaskqadktmadehornterfatesbamesonpay.model.v1.provide
ask_sdk_model.interfaces.amazonpay.modelaskqmdktmbdee.amacofiapey.emażbypay.model.v1.provide
                                                                                    152
ask_sdk_model.interfaces.amazonpay.modelaskqmdktmbddelingtegfeementmatorphytmsdel.v1.release
```

132

```
ask_sdk_model.interfaces.amazonpay.modelawk_sdklmodellinngragceemendiaptawentesayback_fini:
                                                168
ask_sdk_model.interfaces.amazonpay.modelawk_sdklmoderdenterfacestendioplayer.playback_near.
                                               169
ask_sdk_model.interfaces.amazonpay.modelawk_sdktmodel.interfaces.audioplayer.playback_star
                                                170
ask_sdk_model.interfaces.amazonpay.requeask_chdkqmodmazontpafarequeadioplayer.playback_stop
                                                170
ask_sdk_model.interfaces.amazonpay.requeask_sedkpmadatoinpayfaeqseatdioplayer.player_activi
                                                171
ask_sdk_model.interfaces.amazonpay.respoask_amkzmndpayiereofacespandeoplayer.stop_directive
                                                171
ask_sdk_model.interfaces.amazonpay.respoask_sdkrmgedenhaznhepfagceesaudioplayer.stream,
                                                172
ask_sdk_model.interfaces.amazonpay.respoask_sdkumodmazontpafacesuattomotive.automotive_sta
                                                172
ask_sdk_model.interfaces.amazonpay.v1.amaxknspkymededrinteppbases.connections.connections_re
                                                181
ask_sdk_model.interfaces.amazonpay.v1.chaskesdkamodepaynterfaces.connections.connections_re
ask_sdk_model.interfaces.amazonpay.v1.chaskesdkamodepayntesfiates.connections.connections_s
ask_sdk_model.interfaces.amazonpay.v1.seask_amkzmndpayinterfaces.connections.entities.base
ask_sdk_model.interfaces.amazonpay.v1.seask_amkzmndpayimeenfaces.connections.entities.posta
                                               174
ask_sdk_model.interfaces.audioplayer.audaskisdk, model.interfaces.connections.entities.rest
ask_sdk_model.interfaces.audioplayer.audaskisdh_mededataterfaces.connections.requests.base
                                                175
ask_sdk_model.interfaces.audioplayer.audaskpsdkemodeterfaces.connections.requests.print
      163
                                                176
ask_sdk_model.interfaces.audioplayer.audaskpsdkemodeatenterfaces.connections.requests.print
                                               177
ask_sdk_model.interfaces.audioplayer.capasknsdktmodel.interfaces.connections.requests.print
ask_sdk_model.interfaces.audioplayer.capasknsdkpmodel.interfaces.connections.requests.sched
                                                178
ask_sdk_model.interfaces.audioplayer.cleaskbedkvmodel.interfaces.connections.requests.sched
      165
                                                179
ask_sdk_model.interfaces.audioplayer.cleaskqmdkemddeecfinterfaces.connections.send_request_
                                                183
ask_sdk_model.interfaces.audioplayer.curaektspkambdek_shaeefaces.connections.send_response
                                                184
ask_sdk_model.interfaces.audioplayer.errask_sdk_model.interfaces.connections.v1.start_conne
ask_sdk_model.interfaces.audioplayer.errasktspkk_model.interfaces.custom_interface_controlle
                                                184
ask_sdk_model.interfaces.audioplayer.plawsbehdkimodel.interfaces.custom_interface_controlle
ask_sdk_model.interfaces.audioplayer.playskisdkthvdel.interfaces.custom_interface_controlle
                                                185
ask_sdk_model.interfaces.audioplayer.plawbkckdkamodedlrequesfaces.custom_interface_controlle
      168
```

```
ask_sdk_model.interfaces.custom_interfaceskondkonddelexptenfaoes.display.rich_text,
ask_sdk_model.interfaces.custom_interfaceskontkontodelexpteedarequestplay.template,
            187
                                                                                     201
ask_sdk_model.interfaces.custom_interfaceskontkontodelfinterfmaeshdasplan,text_content,
                                                                                     202
ask sdk model.interfaces.custom interfaceskondkombdelheaderfaces.display.text field,
                                                                                     202
ask_sdk_model.interfaces.custom_interfaceskontkontodelsentetigedfaeesiyeddeteconteoller.set_ligi
                                                                                     203
ask_sdk_model.interfaces.custom_interfaceskondkohdelsinter£wens.hamdlengdheechpwe.handler
            189
                                                                                     204
ask_sdk_model.interfaces.custom_interfaceskontkontodelsinperfeneshqandeerndinecsinet_input_ha
            190
                                                                                     205
ask_sdk_model.interfaces.display.back_buasknsdkhavder,interfaces.game_engine.stop_input_ham
ask_sdk_model.interfaces.display.body_tempkasdk,model.interfaces.geolocation.access,
ask_sdk_model.interfaces.display.body_tempkasdk, model.interfaces.geolocation.altitude,
ask_sdk_model.interfaces.display.body_tempkasdk,model.interfaces.geolocation.coordinate,
ask_sdk_model.interfaces.display.body_tempkasdk,_model.interfaces.geolocation.geolocation_in
ask_sdk_model.interfaces.display.body_tempkasdK_model.interfaces.geolocation.geolocation_s
ask_sdk_model.interfaces.display.displayasktedkamedel.interfaces.geolocation.heading,
ask_sdk_model.interfaces.display.displayaskasek_model.interfaces.geolocation.location_serv
                                                                                     209
ask_sdk_model.interfaces.display.elementaskledkemodequesterfaces.geolocation.speed,
            195
                                                                                     210
ask_sdk_model.interfaces.display.hint,
                                                                         ask_sdk_model.interfaces.geolocation.status,
                                                                                     210
ask_sdk_model.interfaces.display.hint_diaektsdk,_model.interfaces.messaging.message_received
ask sdk model.interfaces.display.image, ask sdk model.interfaces.monetization.v1.in skill
            197
                                                                                     212
ask_sdk_model.interfaces.display.image_iaskandk_model.interfaces.monetization.v1.purchase_
                                                                                     212
ask_sdk_model.interfaces.display.image_sask_sdk_model.interfaces.navigation.assistance.anno
            197
                                                                                     213
ask_sdk_model.interfaces.display.list_itemk_sdk_model.interfaces.navigation.navigation_interfaces.display.list_itemk_sdk_model.interfaces.navigation.navigation_interfaces.display.list_itemk_sdk_model.interfaces.navigation.navigation_interfaces.display.list_itemk_sdk_model.interfaces.navigation.navigation_interfaces.display.list_itemk_sdk_model.interfaces.navigation.navigation_interfaces.display.list_itemk_sdk_model.interfaces.navigation.navigation_interfaces.display.list_itemk_sdk_model.interfaces.navigation.navigation_interfaces.display.list_itemk_sdk_model.interfaces.navigation.navigation_interfaces.display.list_itemk_sdk_model.interfaces.navigation.navigation_interfaces.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.display.disp
                                                                                     213
ask_sdk_model.interfaces.display.list_tempkasdk_model.interfaces.playbackcontroller.next_co
ask_sdk_model.interfaces.display.list_tempkasdk_model.interfaces.playbackcontroller.pause_0
                                                                                     214
ask_sdk_model.interfaces.display.plain_texk_sdk_model.interfaces.playbackcontroller.play_cd
ask_sdk_model.interfaces.display.plain_texk_hdht_model.interfaces.playbackcontroller.previous
                                                                                     215
ask_sdk_model.interfaces.display.render_aekp$dkemddeectiverfaces.system.error,
```

216

200

```
ask_sdk_model.interfaces.system.error_caask_sdk_model.interfaces.viewport.viewport_state,
      217
ask_sdk_model.interfaces.system.error_typek_sdk_model.interfaces.viewport.viewport_state_v.
      217
                                               232
ask_sdk_model.interfaces.system.exceptioasknsdknmeded.interfaces.viewport.viewport_video,
                                               232
ask_sdk_model.interfaces.system.system_stakesdk_model.launch_request,318
                                         ask_sdk_model.permission_status, 319
ask_sdk_model.interfaces.tasks.complete_takksdk_mmodetepermissions, 319
                                         ask_sdk_model.person, 320
ask_sdk_model.interfaces.videoapp.launchadkimedel.request,320
                                         ask_sdk_model.request_envelope, 324
ask_sdk_model.interfaces.videoapp.metadatak_sdk_model.response, 324
                                         ask_sdk_model.response_envelope, 325
ask_sdk_model.interfaces.videoapp.video_apk_$dkem6de&,scope,326
                                         ask_sdk_model.services.api_client, 298
ask_sdk_model.interfaces.videoapp.video_ask_model.services.api_client_message,
                                               298
ask_sdk_model.interfaces.viewport.apl.cuasknsdkomoddghraeivnces.api_client_request,
                                               298
ask_sdk_model.interfaces.viewport.apl.viewpostkcmndequservones.api_client_response,
ask_sdk_model.interfaces.viewport.apl_viewpostksmadel.services.api_configuration,
ask_sdk_model.interfaces.viewport.aplt.chakasdkrm@denaservices.api_response, 299
                                         ask_sdk_model.services.authentication_configuration
ask_sdk_model.interfaces.viewport.aplt.inter_segment,
                                         ask_sdk_model.services.base_service_client,
ask_sdk_model.interfaces.viewport.aplt.viewport300rofile,
                                         ask_sdk_model.services.device_address.address,
ask_sdk_model.interfaces.viewport.aplt_viewport23state,
                                         ask_sdk_model.services.device_address.device_addres
ask_sdk_model.interfaces.viewport.experience, 234
                                         ask_sdk_model.services.device_address.error,
ask sdk_model.interfaces.viewport.keyboard,
                                               234
                                         ask sdk model.services.device address.short address
ask sdk model.interfaces.viewport.mode,
                                         ask_sdk_model.services.directive.directive,
ask_sdk_model.interfaces.viewport.presentation_235pe,
                                         ask_sdk_model.services.directive.directive_service
ask sdk model.interfaces.viewport.shape,
                                         ask_sdk_model.services.directive.error,
ask_sdk_model.interfaces.viewport.size.continuods_viewport_size,
                                         ask_sdk_model.services.directive.header,
ask_sdk_model.interfaces.viewport.size.discrete23viewport_size,
                                         ask_sdk_model.services.directive.send_directive_red
ask_sdk_model.interfaces.viewport.size.viewport23gize,
                                         ask_sdk_model.services.directive.speak_directive,
ask_sdk_model.interfaces.viewport.touch,
                                         ask_sdk_model.services.endpoint_enumeration.endpoint
ask_sdk_model.interfaces.viewport.typed_viewpor238state,
                                         ask_sdk_model.services.endpoint_enumeration.endpoint
ask_sdk_model.interfaces.viewport.video.codecs,239
```

ask sdk model.services.endpoint enumeration.endpoint

226

```
239
                                                                                     253
ask_sdk_model.services.endpoint_enumeratask_edklpmodelisevvices.list_management.list_created
                                                                                     254
ask_sdk_model.services.endpoint_enumeratask_edkomodel.services.list_management.list_deleted
ask sdk model.services.gadget controlleraskimdkimodefepervices.list management.list item be
ask_sdk_model.services.gadget_controllera%kghtdkamotdefiservices.list_management.list_item_s
                                                                                     256
ask_sdk_model.services.gadget_controllerasktsdkgmbdparametveces.list_management.list_items_
                                                                                     256
ask_sdk_model.services.gadget_controlleraskiggkrmedehtsevpeces.list_management.list_items_
ask_sdk_model.services.game_engine.deviaasknsdkcmgdezeservices.list_management.list_items_
            243
                                                                                     257
ask_sdk_model.services.game_engine.eventask_sdk_model.services.list_management.list_management
                                                                                     258
ask_sdk_model.services.game_engine.eventaskpsdkimgdelpeervices.list_management.list_state,
                                                                                     260
ask sdk model.services.game engine.inputaekendk model.services.list management.list updated
ask_sdk_model.services.game_engine.inputaekendkamoden.sepeices.list_management.status,
                                                                                     261
ask sdk model.services.game engine.inputabknddkrmedehtservices.list management.update list
                                                                                     262
ask_sdk_model.services.game_engine.patteask_sdk_model.services.list_management.update_list_
                                                                                     262
ask_sdk_model.services.game_engine.patteaskredkgmoder,services.lwa.access_token,
ask_sdk_model.services.game_engine.pattemakredkgmodel.aerhoresypwa.access_token_request,
ask_sdk_model.services.game_engine.progresk_sdkomndeerservices.lwa.access_token_response,
                                                                                     264
ask_sdk_model.services.game_engine.recognskesdk_model.services.lwa.error, 264
                                                                        ask sdk model.services.lwa.lwa client,
ask sdk model.services.list management.alexa li265,
                                                                        ask sdk model.services.monetization.entitled state,
ask_sdk_model.services.list_management.alexa_li266_item,
                                                                        ask_sdk_model.services.monetization.entitlement_real
ask_sdk_model.services.list_management.alexa_li266_metadata,
                                                                        ask sdk model.services.monetization.error,
ask_sdk_model.services.list_management.alexa_li26fs_metadata,
                                                                        ask_sdk_model.services.monetization.in_skill_production.in_skill_production.
ask_sdk_model.services.list_management.create_1265t_item_request,
                                                                        ask_sdk_model.services.monetization.in_skill_production.in_skill_production.
ask_sdk_model.services.list_management.create_1268t_request,
                                                                        ask_sdk_model.services.monetization.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_production.in_skill_p
ask_sdk_model.services.list_management.error, 269
                                                                        ask_sdk_model.services.monetization.metadata,
ask_sdk_model.services.list_management.forbidde169error,
                                                                        ask_sdk_model.services.monetization.monetization_se
ask sdk model.services.list management.links,
                                                                                   269
            253
                                                                        ask_sdk_model.services.monetization.product_type,
ask sdk model.services.list management.list bod37,1
```

```
ask_sdk_model.services.monetization.purchakabdk_modet, services.reminder_management.reminder
ask sdk model.services.monetization.purchakesmkdmodel.services.reminder management.reminde
                                                                                    287
ask_sdk_model.services.monetization.resuatk_setk_model.services.reminder_management.reminder
ask sdk model.services.monetization.statask sdk model.services.reminder management.reminde
ask_sdk_model.services.monetization.tranaaktisdksmodel.services.reminder_management.reminder
ask_sdk_model.services.proactive_events.askabdkpmodetivervvees.remmeder_management.reminde
                                                                                    290
ask_sdk_model.services.proactive_events.eskosdk_model.services.reminder_management.spoken_total
                                                                                    290
ask_sdk_model.services.proactive_events.ewknsdk_model.services.reminder_management.status,
ask_sdk_model.services.proactive_events.pskasdkvmodventervercescemlider, management.trigger,
                                                                                    291
ask_sdk_model.services.proactive_events.aekewdktmaddleseevices.reminder_management.trigger_
ask_sdk_model.services.proactive_events.mekewdhtmeddleneevtvpe,serializer,301
                                                                        ask_sdk_model.services.service_client_factory,
ask_sdk_model.services.proactive_events.skill_stdge,
                                                                        ask sdk model.services.service client response,
ask_sdk_model.services.reminder_management.aler202info,
                                                                        ask_sdk_model.services.service_exception,
ask_sdk_model.services.reminder_management.aler303info_spoken_info,
                                                                        ask_sdk_model.services.skill_messaging.error,
ask_sdk_model.services.reminder_management.erro29,2
                                                                        ask_sdk_model.services.skill_messaging.send_skill_n
ask_sdk_model.services.reminder_management.even293
                                                                        ask_sdk_model.services.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_messaging.skill_m
ask_sdk_model.services.reminder_management.get_293minder_response,
                                                                        ask_sdk_model.services.ups.distance_units,
ask_sdk_model.services.reminder_management.get 294minders_response,
                                                                        ask_sdk_model.services.ups.error, 294
ask_sdk_model.services.reminder_managemeaskpsdk_modéfisetvones.ups.error_code,
                                                                                    295
ask_sdk_model.services.reminder_managemeaskpadk_modefisetvonestapasphone_number,
ask sdk model.services.reminder managemeaskredkrmedee, services.ups.temperature unit,
                                                                                    296
ask_sdk_model.services.reminder_managemeaskredkrmedee.dervices.ups.ups_service_client,
            282
ask_sdk_model.services.reminder_managemeaskredkrmedee.feeqion, 326
                                                                        ask_sdk_model.session_ended_error, 327
ask_sdk_model.services.reminder_managemeask_remik_ndedel.session_ended_error_type,
                                                                                    327
ask_sdk_model.services.reminder_managemeaskredkndedetreasedoavendedequeson, 327
                                                                        ask_sdk_model.session_ended_request, 328
ask_sdk_model.services.reminder_managemeaskredkndededesesedoaveespumed_request,
ask_sdk_model.services.reminder_managemeaskredkndedede&&betc329vent_request,
            285
                                                                        ask sdk model.slot confirmation status,
```

```
330
                                         ask_sdk_model_runtime.serializer,62
ask_sdk_model.slu.entityresolution.resolaskosdk_model_runtime.service_client_response,
ask_sdk_model.slu.entityresolution.resolaskoadk_runtime.dispatch,6
                                         ask_sdk_runtime.dispatch_components.exception_components.
ask sdk model.slu.entityresolution.status,
                                         ask_sdk_runtime.dispatch_components.request_components
ask_sdk_model.slu.entityresolution.status_code,7
                                         ask_sdk_runtime.exceptions, 13
ask_sdk_model.slu.entityresolution.valueask_sdk_runtime.skill,9
                                         ask_sdk_runtime.skill_builder, 11
ask_sdk_model.slu.entityresolution.valueawkappkrs3.adapter,51
                                         ask_sdk_s3.object_keygen,52
ask_sdk_model.status,330
                                         ask_sdk_webservice_support.verifier,44
ask_sdk_model.supported_interfaces,331
                                         ask_sdk_webservice_support.verifier_constants,
ask_sdk_model.task,332
ask_sdk_model.ui.ask_for_permissions_conaektsdk_rdebservice_support.webservice_handler,
ask_sdk_model.ui.card, 306
                                         ask_smapi_model.services.skill_management.skill_man
ask sdk model.ui.image, 307
ask_sdk_model.ui.link_account_card, 307
                                         ask_smapi_model.v1.bad_request_error,
ask_sdk_model.ui.output_speech, 308
ask_sdk_model.ui.plain_text_output_speecask_smapi_model.v1.catalog.create_content_upload_u:
ask_sdk_model.ui.play_behavior, 309
                                         ask_smapi_model.v1.catalog.create_content_upload_u:
ask_sdk_model.ui.reprompt, 309
ask_sdk_model.ui.simple_card, 309
                                         ask_smapi_model.v1.catalog.presigned_upload_part_if
ask_sdk_model.ui.ssml_output_speech, 310
ask_sdk_model.ui.standard_card,310
                                         ask_smapi_model.v1.catalog.upload.catalog_upload_ba
ask_sdk_model.user, 332
ask_sdk_model_runtime.api_client, 58
                                         ask_smapi_model.v1.catalog.upload.content_upload_f
ask_sdk_model_runtime.api_client_message,
                                                362
                                         ask_smapi_model.v1.catalog.upload.file_upload_state
ask_sdk_model_runtime.api_client_request,
                                                363
                                         ask_smapi_model.v1.catalog.upload.get_content_upload
ask_sdk_model_runtime.api_client_response,
                                         ask_smapi_model.v1.catalog.upload.ingestion_status,
ask_sdk_model_runtime.api_configuration,
                                                364
                                         ask_smapi_model.v1.catalog.upload.ingestion_step_na
ask_sdk_model_runtime.api_response, 60
                                                364
ask_sdk_model_runtime.authentication_confiskusmaponmodel.v1.catalog.upload.location,
                                                365
ask_sdk_model_runtime.base_service_clienask_smapi_model.v1.catalog.upload.pre_signed_url,
                                                365
ask_sdk_model_runtime.exceptions, 61
                                         ask_smapi_model.v1.catalog.upload.pre_signed_url_i
ask_sdk_model_runtime.lwa.access_token,
                                         ask_smapi_model.v1.catalog.upload.upload_ingestion_
ask_sdk_model_runtime.lwa.access_token_request,366
                                         ask_smapi_model.v1.catalog.upload.upload_status,
ask_sdk_model_runtime.lwa.access_token_response366
                                         ask_smapi_model.v1.error,540
ask_sdk_model_runtime.lwa.error, 57
                                         ask_smapi_model.v1.isp.associated_skill_response,
ask_sdk_model_runtime.lwa.lwa_client,
       57
                                         ask_smapi_model.v1.isp.create_in_skill_product_req
```

```
369
                                                390
ask_smapi_model.v1.isp.currency, 370
                                         ask_smapi_model.v1.link, 540
ask_smapi_model.v1.isp.custom_product_prombtsmapi_model.v1.links,541
                                         ask_smapi_model.v1.skill.account_linking.access_tol
ask_smapi_model.v1.isp.distribution_countries, 391
                                         ask_smapi_model.v1.skill.account_linking.account_li
ask_smapi_model.v1.isp.editable_state,
      378
                                         ask_smapi_model.v1.skill.account_linking.account_li
ask_smapi_model.v1.isp.in_skill_product_definit396n,
                                         ask_smapi_model.v1.skill.account_linking.account_li
ask_smapi_model.v1.isp.in_skill_product_definit394n_response,
                                         ask_smapi_model.v1.skill.action, 515
ask_smapi_model.v1.isp.in_skill_product_askmamypi_model.v1.skill.agreement_type,
                                                516
ask_smapi_model.v1.isp.in_skill_product_askmamaprempdesey1.skill.alexa_hosted.hosted_skill_
                                                395
ask_smapi_model.v1.isp.isp_summary_linksask_smapi_model.v1.skill.alexa_hosted.hosted_skill_
                                                395
ask_smapi_model.v1.isp.list_in_skill_prodskt_smapi_model.v1.skill.alexa_hosted.hosted_skill_
ask_smapi_model.v1.isp.list_in_skill_prodsktsmappomsdel.v1.skill.alexa_hosted.hosted_skill
ask_smapi_model.v1.isp.localized_privacyaakdsmamplmadee,v1.skill.alexa_hosted.hosted_skill
ask_smapi_model.v1.isp.localized_publishask_smaprimatodeh,v1.skill.alexa_hosted.hosted_skill_
ask_smapi_model.v1.isp.marketplace_priciagk_smapi_model.v1.skill.alexa_hosted.hosted_skill
                                         ask_smapi_model.v1.skill.alexa_hosted.hosted_skill
ask_smapi_model.v1.isp.price_listing,
                                                397
ask_smapi_model.v1.isp.privacy_and_complaakcemapi_model.v1.skill.alexa_hosted.hosted_skill
      385
                                                398
ask_smapi_model.v1.isp.product_response, ask_smapi_model.v1.skill.alexa_hosted.hosted_skill
                                                398
ask_smapi_model.v1.isp.product_type, 385 ask_smapi_model.v1.skill.alexa_hosted.hosted_skill
ask_smapi_model.v1.isp.publishing_information, 399
                                         ask_smapi_model.v1.skill.beta_test.beta_test,
ask_smapi_model.v1.isp.purchasable_state,
                                         ask_smapi_model.v1.skill.beta_test.status,
ask_smapi_model.v1.isp.stage, 387
ask smapi model.v1.isp.status, 387
                                         ask_smapi_model.v1.skill.beta_test.test_body,
ask_smapi_model.v1.isp.subscription_information 403
                                         ask_smapi_model.v1.skill.beta_test.testers.invitat
ask_smapi_model.v1.isp.subscription_payment_fred@ency,
                                         ask_smapi_model.v1.skill.beta_test.testers.list_test
ask_smapi_model.v1.isp.summary_marketplace_pric400g,
                                         ask_smapi_model.v1.skill.beta_test.testers.tester,
ask_smapi_model.v1.isp.summary_price_listing,
                                               400
                                         ask_smapi_model.v1.skill.beta_test.testers.tester_v
ask_smapi_model.v1.isp.tax_information,
                                         ask_smapi_model.v1.skill.beta_test.testers.testers
ask_smapi_model.v1.isp.tax_information_category401
                                         ask_smapi_model.v1.skill.build_details,
ask_smapi_model.v1.isp.update_in_skill_product_516quest,
```

```
ask smapi model.vl.skill.build step, 516
ask_smapi_model.v1.skill.build_step_nameask_smapi_model.v1.skill.evaluations.slot_resolutions
ask_smapi_model.v1.skill.certification.ceskismaptimodedsponskill.export_response,
ask smapi model.v1.skill.certification.ceskismaptimodeesultskill.export response skill,
ask_smapi_model.v1.skill.certification.ceskismaptimndetavaskill.history.confidence,
ask_smapi_model.v1.skill.certification.ceskishaptimodelmmarykill.history.confidence_bin,
ask_smapi_model.v1.skill.certification.daskrshapiomodefoy1.skill.history.dialog_act,
ask_smapi_model.v1.skill.certification.easkmamapm_mpdetey1.skill.history.dialog_act_name,
ask_smapi_model.v1.skill.certification.lask_smapifmodelows.sksponbestory.intent,
      407
ask_smapi_model.v1.skill.certification.pabkismaponmodeluve,skill.history.intent_confidence
                                               418
ask_smapi_model.v1.skill.certification.rewkewmapachodglinfoskill.history.intent_request,
ask_smapi_model.v1.skill.certification.reskesmapachodglinfoskinhhahystory.intent_request_loc
      409
                                               420
ask smapi model.v1.skill.create skill requests,
      517
                                               420
ask_smapi_model.v1.skill.create_skill_reapknsmapi_model.v1.skill.history.interaction_type,
      518
ask_smapi_model.v1.skill.create_skill_wiahkpamapigemodquest,skill.history.locale_in_query,
ask_smapi_model.v1.skill.evaluations.confiskmamapn_modelbsvtypkill.history.publication_status
      409
ask_smapi_model.v1.skill.evaluations.diaask_amapi_model.v1.skill.history.slot,
ask_smapi_model.v1.skill.evaluations.diaask_amaptymedel.v1.skill.history.sort_field_for_int
ask_smapi_model.v1.skill.evaluations.intesk_smapi_model.v1.skill.image_attributes,
                                               519
ask_smapi_model.v1.skill.evaluations.mulasktamapi_model.v1.skill.image_dimension,
                                               520
ask_smapi_model.v1.skill.evaluations.profiskesmapirmqdesty1.skill.image_size,520
                                        ask smapi model.v1.skill.image size unit,
ask_smapi_model.v1.skill.evaluations.profile_nl521response,
                                        ask_smapi_model.v1.skill.import_response,
ask_smapi_model.v1.skill.evaluations.profile_nl521selected_intent,
                                        ask_smapi_model.v1.skill.import_response_skill,
ask_smapi_model.v1.skill.evaluations.resolutions21per_authority_items,
                                        ask_smapi_model.v1.skill.instance,522
ask_smapi_model.v1.skill.evaluations.resasktsmapipmodelthorskvlstanteraction_model.catalog
                                               423
ask_smapi_model.v1.skill.evaluations.resakktsmapipmodeltkorskylstanteraodeon_model.catalog
                                               424
ask_smapi_model.v1.skill.evaluations.resasktsmapipmodelthorskylvalneeraemson_model.catalog
      415
                                               424
```

ask_smapi_model.v1.skill.evaluations.sloask_smapi_model.v1.skill.interaction_model.catalog

```
425
                                               443
ask_smapi_model.v1.skill.interaction_mode&kcamapogmode&lvd_skspbnsateraction_model.prompt,
                                               444
ask_smapi_model.v1.skill.interaction_mode&kcamapogmode&lvd_skathsinteraction_model.prompt_
ask smapi model.v1.skill.interaction modeskcamapogmodealvd.skatusintperaction model.prompt
ask_smapi_model.v1.skill.interaction_modeskcamapogmde@invtiskidatanteraction_model.slot_de
      426
ask_smapi_model.v1.skill.interaction_mode&kcamapogmodef.uppdakelreqneeraction_model.slot_ty
ask_smapi_model.v1.skill.interaction_mode&kcamapogmodef.vatakoglrespensetion_model.slot_va
ask_smapi_model.v1.skill.interaction_modeskcamapogmopdate1rekiestinteraction_model.value_ca
      428
ask_smapi_model.v1.skill.interaction_modeskcamapogmodehevsupplierinteraction_model.value_s
      434
ask_smapi_model.v1.skill.interaction_mode&kdenhenationde&tvatekvltypeteraction_model.version
                                               429
ask_smapi_model.v1.skill.interaction_modeskdsmapq,model.v1.skill.interaction_model.version
      434
                                               429
ask_smapi_model.v1.skill.interaction_modeskdsmapqi_modehtw1.skill.interaction_model.version
                                               430
      435
ask_smapi_model.v1.skill.interaction_modeskdsmapqi_modehts1pskmptsinteraction_model.version
      436
                                               430
ask_smapi_model.v1.skill.interaction_modeskdsmapq_modmptw1.skill.interaction_model.version
ask_smapi_model.v1.skill.interaction_mode&kdsmapg_modelivemskill.interaction_model.version
      437
ask_smapi_model.v1.skill.interaction_mode&khamapntmoderevolukioh.matehaction_model.version
      437
ask_smapi_model.v1.skill.interaction_modeskiamment,model.v1.skill.interaction_model.version
                                               432
ask_smapi_model.v1.skill.interaction_modeskinmepachodelmvdeskdatainteraction_model.version
ask_smapi_model.v1.skill.interaction_modeskinamepachodelmvdeskschemateraction_model.version
ask_smapi_model.v1.skill.interaction_modeskismgpeamedethan,skill.interface_definition,
      439
ask_smapi_model.v1.skill.interaction_mode&kismappeamedethwh.skiedquahteoface_intent,
ask_smapi_model.v1.skill.interaction_mode3kismapidmode1ox1.skill.last_update_request,
ask_smapi_model.v1.skill.interaction_mode1kismapismbdel.v1.skill.list_skill_response,
ask_smapi_model.v1.skill.interaction_modeskismapssmbdeh,v1.skill.manifest.alexa_for_busines
ask_smapi_model.v1.skill.interaction_modeskismapssmodesh.v1.ekpial.manifest.alexa_for_busines
ask_smapi_model.v1.skill.interaction_modeskismapt_modestrutiskill.manifest.alexa_presentation
ask smapi model.v1.skill.interaction modeskismapt modesty1.skill.manifest.audio interface,
      443
ask_smapi_model.v1.skill.interaction_modesklamgpagmodedev1.skill.manifest.connections,
```

```
451
                                               476
ask_smapi_model.v1.skill.manifest.connectsknsmppylmadel.v1.skill.manifest.interface,
                                               477
ask_smapi_model.v1.skill.manifest.criticaskdamaphamddehgy1.skill.manifest.lambda_endpoint,
ask smapi model.v1.skill.manifest.customaakismapi model.v1.skill.manifest.lambda region,
      452
ask_smapi_model.v1.skill.manifest.customasknamapiomsdel.v1.skill.manifest.localized_flash_l
      453
ask_smapi_model.v1.skill.manifest.customasktemaptemodel.v1.skill.manifest.localized_flash_l
ask_smapi_model.v1.skill.manifest.data_paskesmapn_modwldw1, skill.manifest.localized_health_
ask_smapi_model.v1.skill.manifest.displawsknsmapacmodel.v1.skill.manifest.localized_music_
      454
ask_smapi_model.v1.skill.manifest.displawsknsmapacmodphlvveskioh,manifest.manifest_gadget_
      454
                                               481
ask_smapi_model.v1.skill.manifest.displawsknsmapacmodenpvatekversmanifest.music_alias,
                                               482
ask_smapi_model.v1.skill.manifest.distribakismapoumbdeesy1.skill.manifest.music_apis,
ask_smapi_model.v1.skill.manifest.distribskismamodel.v1.skill.manifest.music_capability,
      462
                                               483
ask smapi model.v1.skill.manifest.event askesmapi model.v1.skill.manifest.music content na
      462
                                               483
ask_smapi_model.v1.skill.manifest.event_askesmape_model.v1.skill.manifest.music_content_ty
                                               484
ask_smapi_model.v1.skill.manifest.event_psb_smapiomsdel.v1.skill.manifest.music_feature,
ask_smapi_model.v1.skill.manifest.flash_bskesmagiamodel.v1.skill.manifest.music_interfaces,
ask_smapi_model.v1.skill.manifest.flash_bske_smagicmndehtvtytypkill.manifest.music_request,
ask_smapi_model.v1.skill.manifest.flash_bskesmapigmodel.v1.skill.manifest.music_wordmark,
ask_smapi_model.v1.skill.manifest.flash_bskesmagiumddee.v1eskehdymanifest.permission_items,
ask_smapi_model.v1.skill.manifest.gadgetasknsmaplemodeferfaskill.manifest.permission_name,
ask_smapi_model.v1.skill.manifest.gadgetaskppmapi_model.v1.skill.manifest.region,
ask_smapi_model.v1.skill.manifest.game_eagknemaptemodee,v1.skill.manifest.request,
ask_smapi_model.v1.skill.manifest.healthaskiassapi_model.v1.skill.manifest.request_name,
ask_smapi_model.v1.skill.manifest.healthaakismapi_model.v1.skill.manifest.skill_manifest,
ask_smapi_model.v1.skill.manifest.healthasktemapcemodel.v1.skill.manifest.skill_manifest_a
                                               489
ask_smapi_model.v1.skill.manifest.healthapkosmapl_medelou1.skill.manifest.skill_manifest_cr
ask_smapi_model.v1.skill.manifest.healthaskqamapi_model.v1.skill.manifest.skill_manifest_en
      476
ask_smapi_model.v1.skill.manifest.house_askdsmapt_model.v1.skill.manifest.skill_manifest_en
```

```
491
                                                                                  505
ask_smapi_model.v1.skill.manifest.skill_makismapiemedes,v1.skill.publication_method,
                                                                                  525
ask_smapi_model.v1.skill.manifest.skill_makismapilmodelzed.pkivacyeasdncomfoliance,
                                                                      ask_smapi_model.v1.skill.regional_ssl_certificate,
ask_smapi_model.v1.skill.manifest.skill_manifest25localized_publishing_information,
                                                                      ask smapi model.v1.skill.resource import status,
ask_smapi_model.v1.skill.manifest.skill_manifest26privacy_and_compliance,
                                                                      ask_smapi_model.v1.skill.resource_status,
ask_smapi_model.v1.skill.manifest.skill_manifest27publishing_information,
                                                                      ask_smapi_model.v1.skill.response_status,
ask_smapi_model.v1.skill.manifest.smart_home_api23,
                                                                      ask_smapi_model.v1.skill.simulations.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.alexa_executions.ale
ask_smapi_model.v1.skill.manifest.smart_home_prococol,
                                                                      ask_smapi_model.v1.skill.simulations.alexa_response
ask_smapi_model.v1.skill.manifest.ssl_certificaf06_type,
                                                                      ask_smapi_model.v1.skill.simulations.alexa_response
ask_smapi_model.v1.skill.manifest.up_channel_items,
                                                                      ask_smapi_model.v1.skill.simulations.device,
ask smapi model.v1.skill.manifest.version,
                                                                                  507
                                                                      ask_smapi_model.v1.skill.simulations.input,
ask_smapi_model.v1.skill.manifest.video_apis, 507
           498
                                                                      ask_smapi_model.v1.skill.simulations.invocation_red
ask_smapi_model.v1.skill.manifest.video_apis_lot@le,
           498
                                                                      ask_smapi_model.v1.skill.simulations.invocation_re
ask_smapi_model.v1.skill.manifest.video_app_int568face,
                                                                      ask_smapi_model.v1.skill.simulations.metrics,
ask_smapi_model.v1.skill.manifest.video_catalog_00nfo,
                                                                      ask_smapi_model.v1.skill.simulations.session,
ask_smapi_model.v1.skill.manifest.video_country509nfo,
           500
                                                                      ask_smapi_model.v1.skill.simulations.session_mode,
ask_smapi_model.v1.skill.manifest.video_region,509
                                                                      ask_smapi_model.v1.skill.simulations.simulation_res
ask_smapi_model.v1.skill.manifest.viewport_mode 10
                                                                      ask_smapi_model.v1.skill.simulations.simulations_ap
ask_smapi_model.v1.skill.manifest.viewport_shape,0
                                                                      ask smapi model.v1.skill.simulations.simulations ap
ask_smapi_model.v1.skill.manifest.viewport_specfilflication,
                                                                      ask_smapi_model.v1.skill.simulations.simulations_ap
ask_smapi_model.v1.skill.metrics.get_metric_datallresponse,
           502
                                                                      ask_smapi_model.v1.skill.skill_interaction_model,
                                                                                  528
ask smapi model.v1.skill.metrics.metric,
                                                                      ask_smapi_model.v1.skill.skill_interaction_model_st
                                                                                  528
ask_smapi_model.v1.skill.metrics.period,
           503
                                                                      ask_smapi_model.v1.skill.skill_status,
ask_smapi_model.v1.skill.metrics.skill_type,
                                                                                  529
                                                                      ask_smapi_model.v1.skill.skill_summary,
ask_smapi_model.v1.skill.metrics.stage_for_metri29,
                                                                      ask_smapi_model.v1.skill.skill_summary_apis,
ask_smapi_model.v1.skill.private.accept_status,530
                                                                      ask_smapi_model.v1.skill.ssl_certificate_payload,
ask_smapi_model.v1.skill.private.list_private_di30tribution_accounts_response,
           505
                                                                      ask_smapi_model.v1.skill.standardized_error,
ask_smapi_model.v1.skill.private.private_distrif3ution_account,
```

```
ask_smapi_model.v1.skill.standardized_error_code,
       531
ask smapi model.v1.skill.status,532
ask_smapi_model.v1.skill.submit_skill_for_certification_request,
ask_smapi_model.v1.skill.update_skill_with_package_request,
      533
ask_smapi_model.v1.skill.upload_response,
       533
ask_smapi_model.v1.skill.validation_data_types,
ask_smapi_model.v1.skill.validation_details,
ask_smapi_model.v1.skill.validation_endpoint,
      537
ask_smapi_model.v1.skill.validation_feature,
       537
ask_smapi_model.v1.skill.validations.response_validation,
      512
ask smapi model.v1.skill.validations.response validation importance,
      513
ask_smapi_model.v1.skill.validations.response_validation_status,
       513
ask smapi model.vl.skill.validations.validations api request,
       513
ask_smapi_model.v1.skill.validations.validations_api_response,
       514
ask_smapi_model.v1.skill.validations.validations_api_response_result,
      514
ask_smapi_model.v1.skill.validations.validations_api_response_status,
       515
ask_smapi_model.v1.skill.withdraw_request,
       538
ask_smapi_model.v1.stage_type, 541
ask_smapi_model.v1.stage_v2_type,541
ask_smapi_model.v1.vendor_management.vendor,
ask_smapi_model.v1.vendor_management.vendors,
       539
ask_smapi_sdk.smapi_builder,53
ask smapi sdk.utils,54
```

```
AbstractResponseInterceptor
\verb|absolute| (ask\_sdk\_model.interfaces.alexa.presentation.apl.position! Position! Pos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 in
absolute (ask_sdk_model.interfaces.alexa.presentation.aph.pbsidest.PostponseInterceptor
                                                                                                                                                                                                                                                                                                                                           ask_sdk_runtime.dispatch_components.request_components),
                                                attribute), 117
AbstractExceptionHandler
                                                                                                                                                                                                           (class
                                                                                                                                                                                                                                                                       in
                                                ask\_sdk\_core.dispatch\_components.exception\_components, tSkill (class in ask\_sdk_runtime.skill), 11
                                                                                                                                                                                                                                                                                            AbstractSkillBuilder
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 in
                                                                                                                                                                                                                                                                                                                                           ask_sdk_runtime.skill_builder), 11
AbstractExceptionHandler
                                                                                                                                                                                                           (class
                                               ask_sdk_runtime.dispatch_components.exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exception_components\,exceptio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 in
                                                                                                                                                                                                                                                                                                                                           ask_sdk_webservice_support.verifier), 44
                                                                                                                                                                                                                                                                                           \verb|ACCEPTED|| (ask\_sdk\_model.interfaces.monetization.v1.purchase\_result.Pu||
AbstractExceptionMapper
                                                                                                                                                                                                       (class
                                               ask_sdk_runtime.dispatch_components.exception_componefffst;ibute), 212
                                                                                                                                                                                                                                                                                            ACCEPTED (ask_smapi_model.v1.skill.beta_test.testers.invitation_status.In
                                                                                                                                                                                                                                                                                                                                           attribute), 399
AbstractHandlerAdapter
                                                                                                                                                                                                   (class
                                              ask\_sdk\_runtime. dispatch\_components. request\_components, [ask\_smapi\_model.v1.skill.private. accept\_status. AcceptStatus]
                                                                                                                                                                                                                                                                                                                                           attribute), 505
                                                                                                                                                                                                                                                                                                                                                                                                                                                           (class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 in
                                                                                                                                                                                                                                                                                            AcceptStatus
AbstractPersistenceAdapter
                                                                                                                                                                                                                   (class
                                                                                                                                                                                                                                                                                                                                            ask_smapi_model.v1.skill.private.accept_status),
                                               ask_sdk_core.attributes_manager), 27
AbstractRequestDispatcher
                                                                                                                                                                                                              (class
                                                                                                                                                                                                                                                                                           Access (class in ask_sdk_model.interfaces.geolocation.access),
                                                ask_sdk_runtime.dispatch), 3
AbstractRequestHandler
                                                                                                                                                                                                   (class
                                                                                                                                                                                                                                                                       in
                                                ask_sdk_core.dispatch_components.request_compର୍ଡନିମେଣ୍ଟ୍ର), s Token
                                                                                                                                                                                                                                                                                                                                                                                                                                                        (class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 in
                                                                                                                                                                                                                                                                                                                                           ask_sdk_model.services.lwa.access_token),
AbstractRequestHandler
                                                                                                                                                                                                   (class
                                                                                                                                                                                                                                                                       in
                                                                                                                                                                                                                                                                                                                                                                                                                                                        (class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 in
                                               ask\_sdk\_runtime.dispatch\_components.request\_components, pken
                                                                                                                                                                                                                                                                                                                                            ask_sdk_model_runtime.lwa.access_token), 55
                                                                                                                                                                                                                                                                                           AccessTokenRequest
AbstractRequestHandlerChain
                                                                                                                                                                                                                    (class
                                               ask\_sdk\_runtime. dispatch\_components. request\_components, sk\_sdk\_model. services. lwa. access\_token\_request), which is a substitution of the property of the
                                                                                                                                                                                                                                                                                                                                            263
                                                                                                                                                                                                                                                                                           AccessTokenRequest
AbstractRequestInterceptor
                                                                                                                                                                                                                                                                                                                                        ask_sdk_model_runtime.lwa.access_token_request),
                                               ask_sdk_core.dispatch_components.request_components),
                                                                                                                                                                                                                                                                                           AccessTokenResponse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (class
AbstractRequestInterceptor
                                                                                                                                                                                                                  (class
                                               ask\_sdk\_runtime. dispatch\_components. request\_components \verb|q,sk\_sdk\_model|. services. lwa. access\_token\_response|, access\_to
                                                                                                                                                                                                                                                                                           AccessTokenResponse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  in
AbstractRequestMapper
                                                                                                                                                                                                (class
                                              ask\_sdk\_runtime. dispatch\_components. request\_components. g, sk\_sdk\_model\_runtime. lwa. access\_token\_response), ask\_sdk\_runtime. lwa. access\_token\_response), access\_token\_response, 
                                                                                                                                                                                                                                                                                           AccessTokenSchemeType
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 in
```

```
ask_smapi_model.v1.skill.account_linking.access_token_scheenbod/pel)]
                   391
                                                                                                                 add_global_request_interceptor()
AccountLinkedBody
                                                                       (class
                                                                                                         in
                                                                                                                                    (ask sdk.standard.StandardSkillBuilder
                   ask_sdk_model.events.skillevents.account_linked_body),
                                                                                                                                    method), 40
                                                                                                                 add_global_request_interceptor()
AccountLinkedRequest
                                                                           (class
                                                                                                                                    (ask sdk core.skill builder.CustomSkillBuilder
                                                                                                         in
                  ask sdk model.events.skillevents.account linked request), method), 24
                                                                                                                 add_global_request_interceptor()
AccountLinkingRequest
                                                                             (class
                                                                                                         in
                                                                                                                                     (ask sdk core.skill builder.SkillBuilder
                  ask_smapi_model.v1.skill.account_linking.account_linking_mathest), 22
                                                                                                                 add_global_request_interceptor()
AccountLinkingResponse
                                                                                                         in
                                                                                                                                     (ask_sdk_runtime.skill.RuntimeConfigurationBuilder
                                                                              (class
                  ask_smapi_model.v1.skill.account_linking.account_linking_mesthoodse),0
                   393
                                                                                                                 add_global_request_interceptor()
AccountLinkingType
                                                                        (class
                                                                                                         in
                                                                                                                                    (ask_sdk_runtime.skill_builder.AbstractSkillBuilder
                   ask_smapi_model.v1.skill.account_linking.account_linking_mathqd), 12
                                                                                                                 add_global_response_interceptor()
Action (class in ask smapi model.v1.skill.action), 515
                                                                                                                                    (ask sdk.standard.StandardSkillBuilder
active (ask_sdk_model.services.list_management.list_item_state.Listlethost)qte0
                   attribute), 256
                                                                                                                 add global response interceptor()
active(ask_sdk_model.services.list_management.list_state.ListStateask_sdk_core.skill_builder.CustomSkillBuilder
                  attribute), 260
                                                                                                                                    method), 24
AD (ask_smapi_model.v1.isp.distribution_countries.Distributionic_quintries.__response__interceptor()
                  attribute), 371
                                                                                                                                     (ask sdk core.skill builder.SkillBuilder
AD (ask smapi model.v1.skill.manifest.distribution countries.Distribution but and countries.Distribution countries
                                                                                                                 add_global_response_interceptor()
                  attribute), 455
add_custom_user_agent()
                                                                                                                                     (ask_sdk_runtime.skill.RuntimeConfigurationBuilder
                  (ask_sdk.standard.StandardSkillBuilder
                                                                                                                                    method), 10
                  method), 39
                                                                                                                 add_global_response_interceptor()
                                                                                                                                    (ask_sdk_runtime.skill_builder.AbstractSkillBuilder
add_custom_user_agent()
                  (ask_sdk_core.skill_builder.CustomSkillBuilder
                                                                                                                                    method), 12
                  method), 23
                                                                                                                 add_loader() (ask_sdk.standard.StandardSkillBuilder
add_custom_user_agent()
                                                                                                                                    method), 40
                  (ask_sdk_core.skill_builder.SkillBuilder
                                                                                                                 add_loader() (ask_sdk_core.skill_builder.CustomSkillBuilder
                  method), 22
                                                                                                                                    method), 24
add_directive() (ask_sdk_core.response_helper.Response_fdctargier() (ask_sdk_core.skill_builder.SkillBuilder
                  method), 18
                                                                                                                                    method), 22
add_exception_handler()
                                                                                                                 add_loader() (ask_sdk_runtime.skill.RuntimeConfigurationBuilder
                   (ask_sdk.standard.StandardSkillBuilder
                                                                                                                                    method), 10
                  method), 39
                                                                                                                 add_loader() (ask_sdk_runtime.skill_builder.AbstractSkillBuilder
add_exception_handler()
                                                                                                                                    method), 12
                   (ask sdk core.skill builder.CustomSkillBuilder
                                                                                                                 add loaders() (ask sdk.standard.StandardSkillBuilder
                  method), 24
                                                                                                                                    method), 40
add_exception_handler()
                                                                                                                 \verb|add_loaders()| (ask\_sdk\_core.skill\_builder.CustomSkillBuilder|)|
                  (ask_sdk_core.skill_builder.SkillBuilder
                                                                                                                                    method), 24
                  method), 22
                                                                                                                 add_loaders() (ask_sdk_core.skill_builder.SkillBuilder
add_exception_handler()
                                                                                                                                    method), 22
                   (ask_sdk_runtime.dispatch_components.exception<u>a</u>components.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Generalises.Genera
                  method), 9
                                                                                                                                    method), 10
add_exception_handler()
                                                                                                                 add_loaders() (ask_sdk_runtime.skill_builder.AbstractSkillBuilder
                   (ask_sdk_runtime.skill.RuntimeConfigurationBuilder
                                                                                                                                    method), 12
                                                                                                                 add_renderer() (ask_sdk.standard.StandardSkillBuilder
                  method), 10
add_exception_handler()
                                                                                                                                    method), 40
                   (ask sdk runtime.skill builder.AbstractSkillBuilderdd renderer () (ask sdk core.skill builder.CustomSkillBuilder
```

```
method), 24
                                                                                                                            AI (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
add_renderer() (ask_sdk_core.skill_builder.SkillBuilder
                                                                                                                                                  attribute), 371
                                                                                                                            AI (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution@
                    method), 22
add_renderer() (ask_sdk_runtime.skill.RuntimeConfigurationBuiltleribute), 455
                    method), 11
                                                                                                                             AL (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
add_renderer() (ask_sdk_runtime.skill_builder.AbstractSkillBuildetribute), 371
                                                                                                                            AL (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
                    method), 12
add_request_handler()
                                                                                                                                                  attribute), 455
                    (ask_sdk.standard.StandardSkillBuilder
                                                                                                                            AlertInfo
                                                                                                                                                                                               (class
                                                                                                                                                                                                                                                 in
                    method), 40
                                                                                                                                                  ask_sdk_model.services.reminder_management.alert_info),
add_request_handler()
                     (ask_sdk_core.skill_builder.CustomSkillBuilder
                                                                                                                            alexa_alerts_reminders_skill_readwrite
                    method), 24
                                                                                                                                                  (ask_smapi_model.v1.skill.manifest.permission_name.Permission
add_request_handler()
                                                                                                                                                  attribute), 486
                    (ask_sdk_core.skill_builder.SkillBuilder
                                                                                                                             alexa_alerts_timers_skill_readwrite
                    method), 22
                                                                                                                                                  (ask_smapi_model.v1.skill.manifest.permission_name.Permission
add_request_handler()
                                                                                                                                                  attribute), 486
                     (ask_sdk_runtime.skill.RuntimeConfigurationBuilderexa_async_event_write
                                                                                                                                                  (ask_smapi_model.v1.skill.manifest.permission_name.Permission
                    method), 10
add_request_handler()
                                                                                                                                                  attribute), 486
                    (ask_sdk_runtime.skill_builder.AbstractSkillBuilder1exa_authenticate_2_mandatory
                                                                                                                                                  (ask_smapi_model.v1.skill.manifest.permission_name.Permission
                    method), 11
                                                                                                                                                  attribute), 486
add_request_handler_chain()
                    (ask_sdk_runtime.dispatch_components.request_components.GenericRequest_Mapper ional
                                                                                                                                                  (ask_smapi_model.v1.skill.manifest.permission_name.Permission
                    method), 8
add_request_handlers()
                                                                                                                                                  attribute), 486
                     (ask_sdk_runtime.skill.RuntimeConfigurationBuilderexa_Camera_PhotoCaptureController_CancelCaptureFo
                    method), 10
                                                                                                                                                  (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
                                                                                                                                                  attribute), 465
add_request_interceptor()
                    (ask\_sdk\_runtime.dispatch\_components.request\_chinpanent a General \underline{c} Request \underline{b} boint \underline{c} to \underline{c} and \underline{c}
                    method), 7
                                                                                                                                                  (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
add_response_interceptor()
                                                                                                                                                  attribute), 465
                     (ask_sdk_runtime.dispatch_components.request_chimpanentsa6ienexicRequestHeptdber&hointroller_CaptureFailed
                                                                                                                                                  (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
                    method), 7
add_testers_to_beta_test_v1()
                                                                                                                                                  attribute), 465
                    (ask_smapi_model.services.skill_management.skilk_lnammg@nant_serPibotchi@ntpSkillh4@nagementServic@64ientreFinished
                    method), 334
                                                                                                                                                  (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
Address (class in ask_sdk_model.services.device_address.address), attribute), 465
                                                                                                                            Alexa_Camera_VideoCaptureController_CancelCaptureFa
AE (ask_smapi_model.v1.isp.distribution_countries.DistributionCoun(xisk_smapi_model.v1.skill.manifest.event_name_type.EventName
                    attribute), 371
                                                                                                                                                  attribute), 465
AE (ask_smapi_model.v1.skill.manifest.distribution_countri@sl@istribution@Countri@sl@istribution@cocaptureController_CancelCaptureF
                                                                                                                                                  (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
                    attribute), 455
AF (ask_smapi_model.v1.isp.distribution_countries.DistributionCountriesbute), 465
                                                                                                                            Alexa_Camera_VideoCaptureController_CaptureFailed
                    attribute), 371
AF (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributish@martriesodel.v1.skill.manifest.event_name_type.EventName
                    attribute), 455
                                                                                                                                                  attribute), 465
AG (ask_smapi_model.v1.isp.distribution_countries.Distribution@cum\text{Upinese} au_\text{Upinese} au_
                    attribute), 371
                                                                                                                                                  (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
AG (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributioril@oei)nt#tess
                                                                                                                            Alexa_Camera_VideoCaptureController_CaptureStarted
                    attribute), 455
AgreementType
                                                                                                                   in
                                                                                                                                                  (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
                    ask_smapi_model.v1.skill.agreement_type),
                                                                                                                                                  attribute), 465
```

alexa_customer_id_read

516

```
(ask_smapi_model.v1.skill.manifest.permission_name.PermissiohMane486
        attribute), 486
                                                    alexa_personality_explicit_write
alexa_device_id_read
                                                             (ask_smapi_model.v1.skill.manifest.permission_name.Permission
        (ask_smapi_model.v1.skill.manifest.permission_name.Permisstirihltanye486
        attribute), 486
                                                    Alexa_Presentation_APL_UserEvent
alexa_device_type_read
                                                             (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
        (ask_smapi_model.v1.skill.manifest.permission_name.PermissiohManne465
                                                    Alexa_Presentation_HTML_Event
alexa_devices_all_address_country_and_postal_cdask_xmapi_model.v1.skill.manifest.event_name_type.EventName
        (ask_smapi_model.v1.skill.manifest.permission_name.Permissionblue)ne465
        attribute), 486
                                                    Alexa_Presentation_HTML_LifecycleStateChanged
                                                             (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
alexa_devices_all_address_full_read
        (ask_smapi_model.v1.skill.manifest.permission_name.PermissiinhManne465
        attribute), 486
                                                    Alexa_Presentation_PresentationDismissed
alexa_devices_all_geolocation_read
                                                             (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
        (ask_smapi_model.v1.skill.manifest.permission_name.PermisstinibiManne465
        attribute), 486
                                                    alexa_profile_email_read
alexa_devices_all_notifications_urgent_write
                                                             (ask_smapi_model.v1.skill.manifest.permission_name.Permission
        (ask_smapi_model.v1.skill.manifest.permission_name.PermissiohManye487
        attribute), 486
                                                    alexa_profile_given_name_read
alexa_devices_all_notifications_write
                                                             (ask_smapi_model.v1.skill.manifest.permission_name.Permission
        (ask_smapi_model.v1.skill.manifest.permission_name.Permisstiohi\tange\87
        attribute), 486
                                                    alexa_profile_mobile_number_read
Alexa_FileManager_UploadController_CancelUpload(\varthitaski_kmdpi_model.v1.skill.manifest.permission_name.Permission
        (ask_smapi_model.v1.skill.manifest.event_name_type.Event\(\mathbb{NtarileiTyp\)\(\epsilon\)\(487\)
                                                    alexa_profile_name_read
        attribute), 465
Alexa_FileManager_UploadController_CancelUpload@iskn_ismlapid_model.v1.skill.manifest.permission_name.Permission
        (ask_smapi_model.v1.skill.manifest.event_name_type.Event\(\mathbb{n}\) tarile(Typ)\(\epsilon\) 487
                                                    alexa_raw_person_id_read
Alexa_FileManager_UploadController_UploadFaile(ask_smapi_model.v1.skill.manifest.permission_name.Permission
        (ask_smapi_model.v1.skill.manifest.event_name_type.Event&tatribeiTyp)e,487
        attribute), 465
                                                    alexa_skill_cds_monetization
Alexa_FileManager_UploadController_UploadFinish(ask_smapi_model.v1.skill.manifest.permission_name.Permission
        (ask_smapi_model.v1.skill.manifest.event_name_type.EventManile(Typ)e487
        attribute), 465
                                                    alexa_skill_proactive_enablement
Alexa_FileManager_UploadController_UploadStarte(ask_smapi_model.v1.skill.manifest.permission_name.Permission
        (ask_smapi_model.v1.skill.manifest.event_name_type.Event\(\mathbb{D}\)(tarib\(\mathbb{D}\)(tarib\(\mathbb{D}\)(tarib\(\mathbb{D}\))(287
        attribute), 465
                                                    alexa_skill_products_entitlements
alexa_health_profile_write
                                                             (ask_smapi_model.v1.skill.manifest.permission_name.Permission
        (ask_smapi_model.v1.skill.manifest.permission_name.PermissiiohMane487
                                                    alexa_user_experience_guidance_read
        attribute), 486
alexa_household_lists_read
                                                             (ask_smapi_model.v1.skill.manifest.permission_name.Permission
        (ask_smapi_model.v1.skill.manifest.permission_name.PermissiohManye487
        attribute), 486
                                                    AlexaExecutionInfo
                                                                                      (class
                                                                                                     in
                                                             ask_smapi_model.v1.skill.simulations.alexa_execution_info),
alexa_household_lists_write
        (ask_smapi_model.v1.skill.manifest.permission_name.PermissionName
                                                    alexaForBusiness (ask_smapi_model.v1.skill_summary_apis.Ski
        attribute), 486
alexa_music_cast (ask_smapi_model.v1.skill.manifest.permissionttribute) PermissionName
        attribute), 486
                                                    AlexaForBusinessApis
                                                                                       (class
                                                             ask_smapi_model.v1.skill.manifest.alexa_for_business_apis),
alexa_person_id_read
        (ask_smapi_model.v1.skill.manifest.permission_name.PermissionName
                                                    AlexaForBusinessInterface
        attribute), 486
                                                                                          (class
alexa_personality_explicit_read
                                                             ask_smapi_model.v1.skill.manifest.alexa_for_business_interface)
        (ask_smapi_model.v1.skill.manifest.permission_name.PermissionName
```

```
AlexaList
                                             (class
                                                                                in AN (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
              ask_sdk_model.services.list_management.alexa_list),
                                                                                                    attribute), 371
              249
                                                                                      AN (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
                                                                                                    attribute), 455
AlexaListItem
                                                 (class
              ask_sdk_model.services.list_management.alexa_list_itemat_edOpacityProperty
                                                                                                                                                  (class
                                                                                                    ask sdk model.interfaces.alexa.presentation.apl.animated opaci
AlexaListMetadata
                                                      (class
                                                                               in
              ask_sdk_model.services.list_management.alexa_listn_invetatdattif);roperty
                                                                                                                                           (class
              251
                                                                                                     ask_sdk_model.interfaces.alexa.presentation.apl.animated_prope
AlexaListsMetadata
                                                       (class
              ask_sdk_model.services.list_management.alexa_likts_imetada@;ansformProperty
                                                                                                                                                     (class
                                                                                                     ask_sdk_model.interfaces.alexa.presentation.apl.animated_transf
AlexaPresentationAplInterface (class in
              ask_sdk_model.interfaces.alexa.presentation.apl.aleximpresentation.aplainterface),
                                                                                                                                             (class
                                                                                                     ask_sdk_model.interfaces.alexa.presentation.apl.animate_item_c
AlexaPresentationAplInterface
                                                                                                     80
              ask_smapi_model.v1.skill.manifest.alexa_presentationin_aptl_eintexforke)peatMode
                                                                                                                                                 (class
                                                                                                                                                                      in
                                                                                                     ask_sdk_model.interfaces.alexa.presentation.apl.animate_item_re
AlexaPresentationApltInterface (class in
              ask_sdk_model.interfaces.alexa.presentation.aplt.ahexan_presentationp_aplt_interface).class
                                                                                                    ask_sdk_model.services.gadget_controller.animation_step),
AlexaPresentationHtmlInterface (class in
              ask_sdk_model.interfaces.alexa.presentation.html&dexaypresentationeghpul_einteoface),
                                                                                                                                                  (class
                                                                                                    ask sdk model.interfaces.navigation.assistance.announce road
AlexaResponse
                                                                                                     213
                                                 (class
                                                                                in
              ask_smapi_model.v1.skill.simulations.alexa_response}\where (ask_sdk_model.services.game_engine.pattern_recognizer_and
                                                                                                    attribute), 248
                                                                               in \quad \verb"AO" (ask\_smapi\_model.v1.isp.distribution\_countries. DistributionCountries
AlexaResponseContent
                                                         (class
              ask_smapi_model.v1.skill.simulations.alexa_response_contattribute), 371
                                                                                      \verb|AO| (ask\_smapi\_model.v1.skill.manifest.distribution\_countries.Distribution@| (ask\_smapi\_model.v1.skill.manifest.distribution@| (ask\_smapi\_model.v1.skill.manifest.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.distribution.dis
Align (class in ask_sdk_model.interfaces.alexa.presentation.apl.align)tribute), 455
              79
                                                                                      api_endpoint (ask_smapi_sdk.smapi_builder.CustomSmapiClientBuild
ALL_LISTS_CHANGED
                                                                                                    attribute), 54
              (ask_smapi_model.v1.skill.manifest.event_name_tspei_Eventi\tanaffypask_smapi_sdk.smapi_builder.SmapiClientBuilder
              attribute), 465
                                                                                                    attribute), 53
ALLOWED (ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_permission_ts(ausks_HoostedSklklsPacupis_bioin&eastsundardSmapiClientBuil
              attribute), 396
                                                                                                    attribute), 54
ALREADY_PURCHASED
                                                                                      ApiClient
                                                                                                                                                                      in
                                                                                                                                    (class
              (ask_sdk_model.interfaces.monetization.v1.purchase_result.&skrcshtksaRosheltservices.api_client), 298
                                                                                      ApiClient
              attribute), 212
                                                                                                                                                                      in
Altitude (class in ask_sdk_model.interfaces.geolocation.altitude), ask_sdk_model_runtime.api_client), 58
                                                                                      ApiClientException, 28, 61
in
                                                                                                    ask_sdk_model.services.api_client_message),
              attribute), 434
AM (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries)
              attribute), 371
                                                                                      ApiClientMessage
                                                                                                                                           (class
                                                                                                                                                                      in
AM (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributishn@hountridesl_runtime.api_client_message),
                                                                                                     59
              attribute), 455
AmazonPayErrorResponse
                                                           (class
                                                                               in ApiClientRequest
                                                                                                                                                                      in
              ask_sdk_model.interfaces.amazonpay.response.amazon_payaskrrodkrenpdnks@rvices.api_client_request),
              157
                                                                                                     298
                                                                               in ApiClientRequest
AmazonPayErrorResponse
                                                           (class
              ask_sdk_model.interfaces.amazonpay.v1.amazon_pay_errongskspablasm)odel_runtime.api_client_request),
              159
                                                                                                     59
```

```
ApiClientResponse
                                                (class
                                                                            ask_sdk_core.dispatch_components.request_components
             ask_sdk_model.services.api_client_response),
                                                                                          (module), 16
                                                                             ask sdk core.exceptions (module), 28
                                                                             ask_sdk_core.response_helper(module), 18
ApiClientResponse
                                                (class
            ask_sdk_model_runtime.api_client_response),
                                                                             ask_sdk_core.serialize (module), 28
                                                                             ask sdk core.skill (module), 20
ApiConfiguration
                                               (class
                                                                             ask sdk core.skill builder (module), 21
            ask_sdk_model.services.api_configuration),
                                                                             ask_sdk_core.utils.predicate (module), 29
             299
                                                                             ask_sdk_core.utils.request_util (module),
ApiConfiguration
                                               (class
                                                                       in
            ask_sdk_model_runtime.api_configuration), 60
                                                                             ask_sdk_core.utils.viewport (module), 30
ApiResponse
                                           (class
                                                                             ask_sdk_dynamodb.adapter (module), 35
                                                                        in
                                                                             ask_sdk_dynamodb.partition_keygen (mod-
            ask_sdk_model.services.api_response), 299
ApiResponse
                                           (class
                                                                                          ule), 36
                                                                       in
            ask_sdk_model_runtime.api_response), 60
                                                                             ask_sdk_model.application (module), 311
APLTViewportState
                                                (class
                                                                        in ask_sdk_model.canfulfill.can_fulfill_intent
            ask_sdk_model.interfaces.viewport.aplt_viewport_state), (module), 65
                                                                             ask_sdk_model.canfulfill.can_fulfill_intent_request
APLViewportState
                                               (class
                                                                                           (module), 66
            ask_sdk_model.interfaces.viewport.apl_viewport_stake).sdk_model.canfulfill.can_fulfill_intent_values
                                                                                          (module), 67
Application (class in ask_sdk_model.application), ask_sdk_model.canfulfill.can_fulfill_slot
             311
                                                                                           (module), 67
APPROVED BY PARENT
                                                                             ask sdk model.canfulfill.can fulfill slot values
             (ask_sdk_model.services.monetization.status.Status
                                                                                          (module), 68
            attribute), 273
                                                                             ask_sdk_model.canfulfill.can_understand_slot_value
AQ (ask_smapi_model.v1.isp.distribution_countries.DistributionCountriexdule), 68
             attribute), 371
                                                                             ask_sdk_model.cause (module), 311
AQ (ask_smapi_model.v1.skill.manifest.distribution_countriessRistributionDealntriesnnection_completed (mod-
                                                                                          ule), 312
            attribute), 455
AR (ask_smapi_model.v1.isp.distribution_countries.Distribution_Countriesodel.context (module), 312
            attribute), 371
                                                                             ask_sdk_model.device(module), 313
AR (ask_smapi_model.v1.skill.manifest.distribution_countriess \( \bar{Q} is tribution \( \bar{Countriess} \) \( \bar{Q} is tribution \( \bar{Countriess} \) \( \bar{Q} is tribution \( \bar{Countriess} \) \( \bar{Q} is tribution \( \bar{Q} is tribution \) \( \bar{Q} is tribution \( \bar{Q} is tribution \) \( \bar{Q} is tribution \( \bar{Q} is tribution \) \( \bar{Q} is tribution \( \bar{Q} is tribution \) \( \bar{Q} is tribution \( \bar{Q} is tribution \) \( \bar{Q} is tribution \( \bar{Q} is tribution \) \( \bar{Q} is tribution \) \( \bar{Q} is tribution \( \bar{Q} is tribution \) \( \bar{Q} is tribution \) \( \bar{Q} is tribution \) \( \bar{Q} is tribution \( \bar{Q} is tribution \) \( \bar{Q} is tribution \( \bar{Q} is tribution \) \( \bar{Q} is tribution \) \( \bar{Q} is tribution \( \bar{Q} is tribution \) \( \bar{Q} is tribution \( \bar{Q} is tribution \) \( \bar{Q} is tribution \( \bar{Q} is tribution \) \( \bar{Q} is tribution \) \( \bar{Q} is tr
            attribute), 455
                                                                                           (module), 69
archived(ask_sdk_model.services.list_management.list_state_List_State*odel.dialog.confirm_slot_directive
            attribute), 260
                                                                                          (module), 69
args (ask sdk webservice support.verifier.VerificationExceptionsdk model.dialog.delegate directive
             attribute), 44
                                                                                           (module), 69
array (ask_smapi_model.v1.skill.validation_data_types.VadislationDataBybesl.dialog.dynamic_entities_directive
            attribute), 534
                                                                                           (module), 70
ARTS AND CULTURE (ask smapi model.v1.skill.manifestallash bothefing chehrec'FlashBriefingGenre slot directive
             attribute), 472
                                                                                           (module), 70
AS (ask_smapi_model.v1.isp.distribution_countries.Distribution\( Countries\) dialog_state (module), 314
            attribute), 371
                                                                             ask_sdk_model.directive (module), 314
AS (ask_smapi_model.v1.skill.manifest.distribution_countriess.DistributionDealntriess.dynamic.entity (module),
            attribute), 455
as_view()(django_ask_sdk.skill_adapter.SkillAdapter ask_sdk_model.er.dynamic.entity_list_item
             class method), 49
                                                                                           (module), 71
ask() (ask_sdk_core.response_helper.ResponseFactory ask_sdk_model.er.dynamic.entity_value_and_synonyms
            method), 18
                                                                                           (module), 72
ask_sdk.standard(module), 39
                                                                             ask_sdk_model.er.dynamic.update_behavior
ask_sdk_core.api_client (module), 27
                                                                                          (module), 72
ask_sdk_core.dispatch_components.exceptiaskcsdkomede$.events.skillevents.account_linked_boo
             (module), 17
                                                                                          (module), 73
```

```
ask_sdk_model.events.skillevents.accountakknkedk_medeeksinterfaces.alexa.presentation.apl.com
                                                                                  (module), 89
           (module), 73
ask_sdk_model.events.skillevents.permissask_sdk_model.interfaces.alexa.presentation.apl.com
                                                                                  (module), 89
           (module), 74
ask_sdk_model.events.skillevents.permissask_adkembddlreqtesfaces.alexa.presentation.apl.com
                                                                                  (module), 90
           (module), 74
ask_sdk_model.events.skillevents.permissask_bdkymodel.interfaces.alexa.presentation.apl.com
           (module), 75
                                                                                  (module), 91
ask_sdk_model.events.skillevents.permissask_sdknmedereqneerfaces.alexa.presentation.apl.com
           (module), 75
                                                                                  (module), 91
ask_sdk_model.events.skillevents.proactiweksabkcmodelonnthamigedsbadlexa.presentation.apl.com
           (module), 76
                                                                                  (module), 92
ask_sdk_model.events.skillevents.proactiweksabkcmopelonnthamigedsredgestpresentation.apl.com
           (module), 76
                                                                                  (module), 92
ask_sdk_model.events.skillevents.proactiweksabkomodeloineventaces.alexa.presentation.apl.com
           (module), 77
                                                                                  (module), 93
ask_sdk_model.events.skillevents.skill_daskbsdk_medeesinterfaces.alexa.presentation.apl.com
                                                                                  (module), 94
           (module), 77
ask_sdk_model.events.skillevents.skill_easbledkrmqdestinterfaces.alexa.presentation.apl.exc
           (module), 78
                                                                                  (module), 94
ask_sdk_model.intent(module), 317
                                                                      ask_sdk_model.interfaces.alexa.presentation.apl.hic
ask_sdk_model.intent_confirmation_status
                                                                                  (module), 95
           (module), 317
                                                                      ask_sdk_model.interfaces.alexa.presentation.apl.id
ask sdk model.intent request (module), 318
                                                                                  (module), 95
ask_sdk_model.interfaces.alexa.presentatask_apk_modexa.pnesentatask_apk_modexa.pnesentatask.apk.model.interfaces.alexa.presentatask_apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesentatask.apk.modexa.pnesent
           (module), 79
                                                                                  (module), 96
ask_sdk_model.interfaces.alexa.presentatask_apk_modgh.interfaces.alexa.presentation.apl.mo
           (module), 79
                                                                                  (module), 96
ask_sdk_model.interfaces.alexa.presentatask_apk_modmatentententacesmandexa.presentation.apl.ope
                                                                                  (module), 97
           (module), 80
ask_sdk_model.interfaces.alexa.presentatask_apk_modmatenterfacepeatemedpresentation.apl.pa:
           (module), 81
                                                                                  (module), 97
ask_sdk_model.interfaces.alexa.presentatask_apk_modmatedtepfaces.prepresentation.apl.pla
                                                                                  (module), 98
           (module), 81
ask_sdk_model.interfaces.alexa.presentatask_apk_modmatedtpropersyalexa.presentation.apl.pos
           (module), 82
                                                                                  (module), 99
ask_sdk_model.interfaces.alexa.presentatask_apk_modmatedterfaseormlexappresentation.apl.rea
           (module), 82
                                                                                  (module), 99
ask_sdk_model.interfaces.alexa.presentatask_apk_modeb_tmaekfaces.alexa.presentation.apl.rea
           (module), 83
                                                                                  (module), 100
ask_sdk_model.interfaces.alexa.presentatask_apk_modelpageerommendalexa.presentation.apl.ro
                                                                                  (module), 101
           (module), 83
ask_sdk_model.interfaces.alexa.presentatask_apk_moder_fnterfacemaadexa.presentation.apl.rum
           (module), 84
                                                                                  (module), 101
ask_sdk_model.interfaces.alexa.presentatask_apk_modmandnterfaces.alexa.presentation.apl.sc
           (module), 84
                                                                                  (module), 101
ask_sdk_model.interfaces.alexa.presentatask_apk_modeponenteefities.alexa.presentation.apl.sc
           (module), 86
                                                                                  (module), 102
ask_sdk_model.interfaces.alexa.presentatask_apk_modeponentesfates.alexa.presentation.apl.sc
           (module), 87
                                                                                  (module), 103
ask_sdk_model.interfaces.alexa.presentatask_apk_modponenterfaces.acpresentation.apl.sen
                                                                                  (module), 104
ask_sdk_model.interfaces.alexa.presentatask_apk_modebnenterfaceseabexacpresentationemptaged
```

(*module*), 104

(module), 88

(module), 106

```
(module), 125
                (module), 106
ask_sdk_model.interfaces.alexa.presentatiask_apk_medestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presentation.html.modestinterfaces.alexa.presen
                (module), 107
                                                                                                                   (module), 126
ask_sdk_model.interfaces.alexa.presentatask_apk_medevalneer6amendalexa.presentation.html.rn
                (module), 108
                                                                                                                   (module), 127
ask_sdk_model.interfaces.alexa.presentation.html.s
                                                                                                                   (module), 127
                (module), 109
ask_sdk_model.interfaces.alexa.presentatask_apk_mpdak_intemrfammandlexa.presentation.html.s
                (module), 109
                                                                                                                   (module), 128
ask_sdk_model.interfaces.alexa.presentatask_apk_mpdek_linterfaces.alexa.presentation.html.s
                                                                                                                   (module), 128
                (module), 110
ask_sdk_model.interfaces.alexa.presentatask_apk_modesformepfapestalexa.presentation.html.t:
                (module), 111
                                                                                                                   (module), 129
ask_sdk_model.interfaces.alexa.presentatask_apk_modeleventerfaces.alexa.presentation.html.t.
                                                                                                                   (module), 129
                (module), 111
ask_sdk_model.interfaces.alexa.presentatask_apk_modeb_sntereaces.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.model.request.amazonpay.mod
                (module), 112
                                                                                                                   (module), 130
ask_sdk_model.interfaces.alexa.presentatask_apktmadekaipteseatesiamaaphpaynmadeaceequest.ba
                (module), 113
                                                                                                                   (module), 131
ask_sdk_model.interfaces.alexa.presentatask_apktmadeb_paterfammandmazonpay.model.request.b.
                (module), 113
                                                                                                                   (module), 132
ask_sdk_model.interfaces.alexa.presentatask_apktmodmmandterfaces.amazonpay.model.request.b.
                (module), 114
                                                                                                                   (module), 133
ask_sdk_model.interfaces.alexa.presentatask_apktmedetutateomimaadsadazeopayemodel.request.pa
                (module), 115
                                                                                                                   (module), 133
ask_sdk_model.interfaces.alexa.presentatask_apktmodee.commandees.amazonpay.model.request.pr
                                                                                                                   (module), 134
                (module), 116
ask_sdk_model.interfaces.alexa.presentatask_apktmpdeallefecommendamazonpay.model.request.p
                (module), 117
                                                                                                                   (module), 134
ask_sdk_model.interfaces.alexa.presentatask_apktmpdeltinterfaces.amazonpay.model.request.pr
                (module), 117
                                                                                                                   (module), 135
(module), 118
                                                                                                                   (module), 135
ask_sdk_model.interfaces.alexa.presentatask_apktmodetimeterfaces.amazonpay.model.request.se
                (module), 118
                                                                                                                   (module), 136
ask_sdk_model.interfaces.alexa.presentatask_apktmodebllntemmfands.amazonpay.model.response.a
                (module), 119
                                                                                                                   (module), 138
ask_sdk_model.interfaces.alexa.presentatask_apktmsded_ewentfacemmaamdazonpay.model.response.a
                (module), 120
                                                                                                                   (module), 139
ask_sdk_model.interfaces.alexa.presentatask_apktmsdqhennterfacemmaamdazonpay.model.response.l
                                                                                                                   (module), 140
                (module), 121
ask_sdk_model.interfaces.alexa.presentatask_apktmsdelpageer6mmendamazonpay.model.response.c
                                                                                                                   (module), 141
                (module), 122
ask_sdk_model.interfaces.alexa.presentatask_apktmsdelvanterfammandmazonpay.model.response.p
                (module), 123
                                                                                                                   (module), 142
ask_sdk_model.interfaces.alexa.presentatask_apktmbdegeinpeofaces.amazonpay.model.response.
                                                                                                                   (module), 142
                (module), 123
ask_sdk_model.interfaces.alexa.presentatask_apktmoder_ewentfaces.amazonpay.model.response.s
                                                                                                                   (module), 143
ask_sdk_model.interfaces.alexa.presentatask_bdhlmadexaipreseatesiamahbmpaynmadeacel.author.
                (module), 125
                                                                                                                   (module), 144
```

ask_sdk_model.interfaces.alexa.presentatask_apk_medefointerfamendalexa.presentation.html.co

ask_sdk_model.interfaces.alexa.presentatiosk_apk_medepageteomaaed.alexa.presentation.html.ha

(module), 125

```
ask_sdk_model.interfaces.amazonpay.modelawk_adkhmodeatinhesfates.audioplayer.audio_player_
                                                   (module), 163
       (module), 145
ask_sdk_model.interfaces.amazonpay.modelask_adkhmodee_anteribates.audioplayer.audio_player_s
       (module), 146
                                                   (module), 164
ask_sdk_model.interfaces.amazonpay.modelawk_bdklmndeagreementacestambdopsayer.caption_data
                                                   (module), 164
       (module), 147
ask_sdk_model.interfaces.amazonpay.modelawk_bdk_modeawk_bdk_modelawk_bdk_modelawk_bdk_detawdsoplayer.caption_type
       (module), 148
                                                   (module), 164
ask_sdk_model.interfaces.amazonpay.modelawk_bdklmindeagreemefiacesatudioplayer.clear_behavio
       (module), 148
                                                   (module), 165
ask_sdk_model.interfaces.amazonpay.modelawk_bdklindeadginemefiacewpeudioplayer.clear_queue_d.
       (module), 149
                                                   (module), 165
ask_sdk_model.interfaces.amazonpay.modelawk_ddktindelointerfaces.audioplayer.current_playba
       (module), 150
                                                   (module), 165
ask_sdk_model.interfaces.amazonpay.modelask_pdkmmndeactinterfaces.audioplayer.error
       (module), 151
                                                   (module), 166
ask_sdk_model.interfaces.amazonpay.modelawk_pdkcmodel.interfaces.audioplayer.error_type
                                                   (module), 166
       (module), 151
ask_sdk_model.interfaces.amazonpay.modelask_pdkvinddelathtebfiaees.audioplayer.play_behavior
       (module), 151
                                                   (module), 167
ask_sdk_model.interfaces.amazonpay.modelawk_pdbvmddelcredetfaces.audioplayer.play_directive
                                                   (module), 167
       (module), 152
ask_sdk_model.interfaces.amazonpay.modelawk_sedk_asdedenwintenmienes.audioplayer.playback_failo
       (module), 152
                                                   (module), 168
ask_sdk_model.interfaces.amazonpay.modelawk_sdklmodellimhgragceemendiaptayentp&ayback_finis
       (module), 153
                                                   (module), 168
ask_sdk_model.interfaces.amazonpay.modelawk_sdklmoderdenterfacesterdioplayer.playback_near
       (module), 153
                                                   (module), 169
ask_sdk_model.interfaces.amazonpay.modelawk_sdktmodel.interfaces.audioplayer.playback_star
                                                   (module), 170
       (module), 154
ask_sdk_model.interfaces.amazonpay.requeaskchdkgmodmazontpafacequeadioplayer.playback_stop
       (module), 155
                                                   (module), 170
ask_sdk_model.interfaces.amazonpay.requeask_sedkpmadazonnpayfaeqseatdioplayer.player_activi
       (module), 156
                                                   (module), 171
ask_sdk_model.interfaces.amazonpay.respoask_amkzmndpayiereofacespandeoplayer.stop_directive
                                                   (module), 171
       (module), 157
ask_sdk_model.interfaces.amazonpay.respoask_sdkrmedenhaznhepfacesaudioplayer.stream
       (module), 157
                                                   (module), 172
ask_sdk_model.interfaces.amazonpay.respoask_sdkumodmazontpafacesuattomotive.automotive_sta
       (module), 158
                                                   (module), 172
ask_sdk_model.interfaces.amazonpay.v1.amasknspkymededrintespoases.connections.connections_re
       (module), 159
                                                   (module), 181
ask_sdk_model.interfaces.amazonpay.v1.chaskesdkamodepainterfaces.connections.connections_re
       (module), 159
                                                   (module), 182
ask_sdk_model.interfaces.amazonpay.v1.chaskesdkamodepayntesfiates.connections.connections_s
       (module), 160
                                                   (module), 182
ask_sdk_model.interfaces.amazonpay.v1.seasp_amkzmndpayinterfaces.connections.entities.base
       (module), 161
                                                   (module), 173
ask_sdk_model.interfaces.amazonpay.v1.seasp_adkzmndpayimeenfaces.connections.entities.posta
       (module), 162
                                                   (module), 174
ask_sdk_model.interfaces.audioplayer.audiskisdh_model.interfaces.connections.entities.resta
       (module), 162
                                                   (module), 175
```

(*module*), 163

ask_sdk_model.interfaces.audioplayer.audiskisdh_mededataterfaces.connections.requests.base

(*module*), 175

```
ask_sdk_model.interfaces.connections.requestsdbrmindelminterfaces.dbrmindelminterfaces.connections.requestsdbrmindelminterfaces.dbrmindelminterfaces.connections.requestsdbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrmindelminterfaces.dbrminde
                                                                                                                                                      (module), 195
                     (module), 176
ask_sdk_model.interfaces.connections.requektsdprmndepdfnteqfieses.display.hint
                                                                                                                                                      (module), 196
                     (module), 177
ask_sdk_model.interfaces.connections.requektsdkrmndewebnpegearequestplay.hint_directive
                                                                                                                                                      (module), 196
                     (module), 178
ask\_sdk\_model.interfaces.connections.request\_sdk\_cmedele\_interfaces.connection\_request\_sdk\_cmedele\_interfaces.connection\_request\_sdk\_cmedele\_interfaces.connection\_request\_sdk\_cmedele\_interfaces.connection\_request\_sdk\_cmedele\_interfaces.connection\_request\_sdk\_cmedele\_interfaces.connection\_request\_sdk\_cmedele\_interfaces.connection\_request\_sdk\_cmedele\_interfaces.connection\_request\_sdk\_cmedele\_interfaces.connection\_request\_sdk\_cmedele\_interfaces.connection\_request\_sdk\_cmedele\_interfaces.connection\_request\_sdk\_cmedele\_interfaces.connection\_request\_sdk\_cmedele\_interfaces.connection\_request\_sdk\_cmedele\_interfaces.connection\_request\_sdk\_cmedele\_interfaces.connection\_request\_sdk\_cmedele\_interfaces.connection\_request\_sdk\_cmedele\_interfaces.connection\_request\_sdk\_cmedele\_interfaces.connection\_request\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfaces.connection\_sdk\_cmedele\_interfa
                     (module), 178
                                                                                                                                                      (module), 197
ask_sdk_model.interfaces.connections.requektsdkchedeleinterfacesrdabphayrenagetinstance
                     (module), 179
                                                                                                                                                      (module), 197
ask_sdk_model.interfaces.connections.sendskeqdksmoderechtvefaces.display.image_size
                     (module), 183
                                                                                                                                                      (module), 197
ask_sdk_model.interfaces.connections.sendskespknmeddlrenterfaces.display.list_item
                     (module), 184
                                                                                                                                                      (module), 198
ask_sdk_model.interfaces.connections.v1.askrsdkomndetiontdifacesvdisplay.list_template1
                     (module), 180
                                                                                                                                                      (module), 198
ask_sdk_model.interfaces.custom_interfaceskondkonhodelendpeinfaces.display.list_template2
                                                                                                                                                      (module), 199
                     (module), 184
ask_sdk_model.interfaces.custom_interfaceskondkondodeleventerfaces.display.plain_text
                     (module), 185
                                                                                                                                                      (module), 200
ask_sdk_model.interfaces.custom_interfaceskondkondeleventerfaceston.phodeeleventerfacesrdisplay.plain_text_hint
                                                                                                                                                      (module), 200
                     (module), 185
ask_sdk_model.interfaces.custom_interfaceskontkohdelevenesfaeeeidedplegueender_template_d.
                     (module), 186
                                                                                                                                                      (module), 200
ask_sdk_model.interfaces.custom_interfaceskondkonhodelexpteafaoes.display.rich_text
                     (module), 187
                                                                                                                                                      (module), 201
ask_sdk_model.interfaces.custom_interfaceskondkonhodelexpteedarequestplay.template
                     (module), 187
                                                                                                                                                      (module), 201
ask_sdk_model.interfaces.custom_interfaceskontkontodelfinterfmaeshdasplan.text_content
                     (module), 188
                                                                                                                                                      (module), 202
ask_sdk_model.interfaces.custom_interfaceskontkontodelhenderfaces.display.text_field
                     (module), 188
                                                                                                                                                      (module), 202
ask_sdk_model.interfaces.custom_interfaceskontkontodelsendedfaeesiyeddetectonteoller.set_light
                     (module), 189
                                                                                                                                                      (module), 203
ask_sdk_model.interfaces.custom_interfaceskontkontodelsinterfæeeb.hamdlengdineechpue_handler
                     (module), 189
                                                                                                                                                      (module), 204
ask_sdk_model.interfaces.custom_interfaceskontkontdelsinperfeneshgandeerndimecsiwet_input_ha
                     (module), 190
                                                                                                                                                      (module), 205
ask_sdk_model.interfaces.display.back_buasknsdkhavder.interfaces.game_engine.stop_input_har
                                                                                                                                                      (module), 206
                     (module), 190
ask_sdk_model.interfaces.display.body_tempkasdk_model.interfaces.geolocation.access
                                                                                                                                                      (module), 206
                     (module), 191
ask_sdk_model.interfaces.display.body_tempkasdk_model.interfaces.geolocation.altitude
                     (module), 192
                                                                                                                                                      (module), 207
ask_sdk_model.interfaces.display.body_tempkasdk_model.interfaces.geolocation.coordinate
                     (module), 192
                                                                                                                                                      (module), 207
ask_sdk_model.interfaces.display.body_tempkasdk_model.interfaces.geolocation.geolocation_interfaces.display.body_tempkasdk_model.interfaces.geolocation.geolocation_interfaces.display.body_tempkasdk_model.interfaces.geolocation.geolocation_interfaces.display.body_tempkasdk_model.interfaces.geolocation.geolocation_interfaces.display.body_tempkasdk_model.interfaces.geolocation.geolocation_interfaces.display.body_tempkasdk_model.interfaces.geolocation.geolocation_interfaces.display.body_tempkasdk_model.interfaces.geolocation.geolocation_interfaces.display.body_tempkasdk_model.interfaces.geolocation.geolocation_interfaces.display.body_tempkasdk_model.interfaces.geolocation.geolocation_interfaces.display.body_tempkasdk_model.interfaces.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocation.geolocatio
                     (module), 193
                                                                                                                                                      (module), 208
ask_sdk_model.interfaces.display.body_tempkaseK_model.interfaces.geolocation.geolocation_states.
                     (module), 194
                                                                                                                                                      (module), 208
ask_sdk_model.interfaces.display.displayashtedkamedel.interfaces.geolocation.heading
                     (module), 194
                                                                                                                                                      (module), 209
ask_sdk_model.interfaces.display.displayaskasek_model.interfaces.geolocation.location_serv
                                                                                                                                                      (module), 209
                     (module), 195
```

```
ask_sdk_model.interfaces.geolocation.speadk_sdk_model.interfaces.viewport.aplt_viewport_sta
                                                   (module), 227
       (module), 210
ask_sdk_model.interfaces.geolocation.statak_sdk_model.interfaces.viewport.experience
       (module), 210
                                                   (module), 228
ask_sdk_model.interfaces.messaging.messagekredkimedelteqneerfaces.viewport.keyboard
                                                   (module), 228
       (module), 211
ask sdk model.interfaces.monetization.vlask sdklmodeodinterfaces.viewport.mode
                                                   (module), 229
       (module), 212
ask_sdk_model.interfaces.monetization.vlapkrsdksmodesulhterfaces.viewport.presentation_type
       (module), 212
                                                   (module), 229
ask_sdk_model.interfaces.navigation.assissknsdkamndehcenteadaregutaewport.shape
                                                   (module), 229
       (module), 213
ask_sdk_model.interfaces.navigation.navigakiodkimbdeFaceterfaces.viewport.size.continuous_
       (module), 213
                                                   (module), 224
ask_sdk_model.interfaces.playbackcontrolaek_nedktmodmhaindtessaedsredesport.size.discrete_vic
       (module), 214
                                                   (module), 224
ask_sdk_model.interfaces.playbackcontrolaek_pdksmodenmandeisaued.veqwport.size.viewport_size
                                                   (module), 225
       (module), 214
ask_sdk_model.interfaces.playbackcontrolaek.pdlaymodmhaindtessaedsredewport.touch
       (module), 215
                                                   (module), 230
ask_sdk_model.interfaces.playbackcontrolaek_pdkvmodelcommendacesuvdewpqnestyped_viewport_s
       (module), 215
                                                   (module), 230
                                           ask_sdk_model.interfaces.viewport.video.codecs
ask sdk model.interfaces.system.error
                                                   (module), 226
       (module), 216
ask_sdk_model.interfaces.system.error_caask_sdk_model.interfaces.viewport.viewport_state
       (module), 217
                                                   (module), 231
ask_sdk_model.interfaces.system.error_typek_sdk_model.interfaces.viewport.viewport_state_v.
       (module), 217
                                                   (module), 232
ask_sdk_model.interfaces.system.exceptioasknsdknmeded.interfaces.viewport.viewport_video
       (module), 217
                                                   (module), 232
ask_sdk_model.interfaces.system.system_saakesdk_model.launch_request (module), 318
       (module), 218
                                           ask_sdk_model.permission_status (module),
ask_sdk_model.interfaces.tasks.complete_task_dirloctive
                                           ask_sdk_model.permissions (module), 319
       (module), 219
ask_sdk_model.interfaces.videoapp.launchadkredkimedel.person(module), 320
                                           ask_sdk_model.request (module), 320
       (module), 220
ask_sdk_model.interfaces.videoapp.metadatak_sdk_model.request_envelope (module),
       (module), 220
ask_sdk_model.interfaces.videoapp.video_apk_sdkem6de&.response(module), 324
                                           ask_sdk_model.response_envelope (module),
       (module), 220
ask sdk model.interfaces.videoapp.video item
                                                  325
       (module), 221
                                           ask_sdk_model.scope (module), 326
ask_sdk_model.interfaces.viewport.apl.cuasknsdkomodeghraeivinces.api_client (mod-
       (module), 221
                                                   ule), 298
ask_sdk_model.interfaces.viewport.apl.viewpostkcmndeduservones.api_client_message
       (module), 222
                                                   (module), 298
ask_sdk_model.interfaces.viewport.apl_viewpostdksmadel.services.api_client_request
                                                   (module), 298
       (module), 226
ask_sdk_model.interfaces.viewport.aplt.chakastkrm&denaservices.api_client_response
       (module), 222
                                                   (module), 299
ask_sdk_model.interfaces.viewport.aplt.iaskrsdkgmedel.services.api_configuration
                                                   (module), 299
       (module), 223
ask_sdk_model.interfaces.viewport.aplt.vask_modellservices.api_response
                                                   (module), 299
       (module), 223
```

```
ask_sdk_model.services.authentication_coaskgsdktmodel.services.game_engine.pattern
                                                  (module), 246
       (module), 300
ask_sdk_model.services.base_service_clieatk_sdk_model.services.game_engine.pattern_recogni
       (module), 300
                                                  (module), 247
ask_sdk_model.services.device_address.addskssdk_model.services.game_engine.pattern_recognis
                                                  (module), 247
       (module), 233
ask_sdk_model.services.device_address.dewikesdkdmedslseeviceesligeme_engine.progress_recogni
       (module), 234
                                                  (module), 248
ask_sdk_model.services.device_address.erask_sdk_model.services.game_engine.recognizer
       (module), 234
                                                  (module), 248
ask_sdk_model.services.device_address.shask_adklrmsdel.services.list_management.alexa_list
                                                  (module), 249
       (module), 235
ask_sdk_model.services.directive.directiwek_sdk_model.services.list_management.alexa_list_
                                                  (module), 250
ask_sdk_model.services.directive.directiweksedkimedelientvices.list_management.alexa_list_
       (module), 236
                                                  (module), 251
ask_sdk_model.services.directive.error ask_sdk_model.services.list_management.alexa_lists
                                                  (module), 251
       (module), 236
ask_sdk_model.services.directive.header ask_sdk_model.services.list_management.create_list_
       (module), 237
                                                  (module), 252
ask_sdk_model.services.directive.send_diaekt_sdk_medeekstervices.list_management.create_list_
                                                  (module), 252
       (module), 237
ask_sdk_model.services.directive.speak_dask_dask_model.services.list_management.error
                                                  (module), 252
       (module), 238
ask_sdk_model.services.endpoint_enumeratask_edkpmodelcapabidesylist_management.forbidden_e:
       (module), 238
                                                  (module), 253
ask_sdk_model.services.endpoint_enumeratask_edklpmodelenemeratasohisespenagement.links
       (module), 239
                                                  (module), 253
ask_sdk_model.services.endpoint_enumeratask.edkpmodelenemeratash.setzmanagemeentlist_body
                                                  (module), 253
       (module), 239
ask_sdk_model.services.endpoint_enumeratask_edkpmodelisevices.list_management.list_created
       (module), 240
                                                  (module), 254
ask_sdk_model.services.endpoint_enumeratask_edkomodel.services.list_management.list_deleted
                                                  (module), 255
       (module), 240
ask_sdk_model.services.gadget_controlleraakimadkimndstepervices.list_management.list_item_be
                                                  (module), 255
       (module), 241
ask_sdk_model.services.gadget_controllera%kghtdkamoddetiservices.list_management.list_item_st
                                                  (module), 256
       (module), 241
ask_sdk_model.services.gadget_controllerasktsdkgmbdparameteces.list_management.list_items_
       (module), 242
                                                  (module), 256
ask_sdk_model.services.gadget_controlleraskiggkrmedehtseypeces.list_management.list_items_c
                                                  (module), 257
       (module), 242
ask_sdk_model.services.game_engine.deviaaskonsdkcmgdeteservices.list_management.list_items_
       (module), 243
                                                  (module), 257
ask_sdk_model.services.game_engine.eventask_sdk_model.services.list_management.list_management.
                                                  (module), 258
       (module), 243
ask_sdk_model.services.game_engine.eventaskpodkimgdelpeervices.list_management.list_state
                                                  (module), 260
ask_sdk_model.services.game_engine.inputaekendk_model.services.list_management.list_updated
       (module), 245
                                                  (module), 261
ask_sdk_model.services.game_engine.inputaekentkambdeh.typwices.list_management.status
                                                  (module), 261
ask_sdk_model.services.game_engine.inputabknddkrmedehtservices.list_management.update_list_
       (module), 246
                                                  (module), 262
```

```
ask_sdk_model.services.list_management.updktedkimbdeekquestices.reminder_management.alert_in
            (module), 262
                                                                                     (module), 278
ask_sdk_model.services.lwa.access_token ask_sdk_model.services.reminder_management.alert_in
            (module), 263
                                                                                     (module), 278
ask_sdk_model.services.lwa.access_token_aequedk_model.services.reminder_management.error
                                                                                     (module), 279
            (module), 263
ask sdk model.services.lwa.access token #ekpsdkemodel.services.reminder management.event
            (module), 264
                                                                                     (module), 279
ask_sdk_model.services.lwa.error (mod- ask_sdk_model.services.reminder_management.get_rem.
            ule), 264
                                                                                     (module), 280
ask_sdk_model.services.lwa.lwa_client
                                                                        ask_sdk_model.services.reminder_management.get_rem
            (module), 265
                                                                                     (module), 280
ask\_sdk\_model.services.monetization.enti \\ ask\_dsdk\_amedel.services.reminder\_management.push\_noted \\ ask\_sdk\_model.services.reminder\_management.push\_noted \\ ask\_sdk\_amedel.services.reminder\_management.push\_noted \\ ask\_sdk\_amedel.services.push\_noted \\ ask\_sdk\_amede
            (module), 266
                                                                                     (module), 281
ask_sdk_model.services.monetization.entia%kmedk_medeonservices.reminder_management.push_not
            (module), 266
                                                                                     (module), 281
ask_sdk_model.services.monetization.erroask_sdk_model.services.reminder_management.recurrent
                                                                                     (module), 282
            (module), 267
ask_sdk_model.services.monetization.in_sasklspkomdadel.services.reminder_management.recurrent
            (module), 267
                                                                                     (module), 282
ask_sdk_model.services.monetization.in_sasklspkodadeltsenvacesonemredpvnmenagement.recurrent
                                                                                     (module), 283
            (module), 268
ask_sdk_model.services.monetization.in_sasklspkomodes_sespones.reminder_management.reminder
            (module), 269
                                                                                     (module), 283
ask_sdk_model.services.monetization.metadakasdk_model.services.reminder_management.reminder
            (module), 269
                                                                                     (module), 284
ask_sdk_model.services.monetization.moneaskasdbnmsdeviservicestreminder_management.reminde
            (module), 269
                                                                                     (module), 285
ask_sdk_model.services.monetization.prodask_sqkemodel.services.reminder_management.reminder
                                                                                     (module), 285
            (module), 271
ask_sdk_model.services.monetization.purchakabdk_modete.services.reminder_management.reminder
            (module), 272
                                                                                     (module), 286
ask_sdk_model.services.monetization.purchakesmbdmodel.services.reminder_management.reminde
                                                                                     (module), 287
            (module), 272
ask_sdk_model.services.monetization.resuask_setk_model.services.reminder_management.reminder
            (module), 272
                                                                                     (module), 288
ask_sdk_model.services.monetization.statask_sdk_model.services.reminder_management.reminder
                                                                                     (module), 288
            (module), 273
ask_sdk_model.services.monetization.tranaaktisdksmodel.services.reminder_management.reminder
            (module), 273
                                                                                     (module), 289
ask_sdk_model.services.proactive_events.askasdkpmodefiservvents.reminder_management.reminder
            (module), 274
                                                                                     (module), 290
ask_sdk_model.services.proactive_events.eskosdk_model.services.reminder_management.spoken_
                                                                                     (module), 290
            (module), 275
ask_sdk_model.services.proactive_events.ewkntsdk_model.services.reminder_management.status
                                                                                     (module), 291
            (module), 275
ask_sdk_model.services.proactive_events.pskastkvmodvenservecesceenlidert_management.trigger
            (module), 276
                                                                                     (module), 291
ask_sdk_model.services.proactive_events.aekesdktmaddleseevices.reminder_management.trigger_
            (module), 276
                                                                                     (module), 292
ask_sdk_model.services.proactive_events.mekewdktmaddleneevtppe.serializer (mod-
                                                                                     ule), 301
ask_sdk_model.services.proactive_events.akk_sdktmagdel.services.service_client_factory
            (module), 277
                                                                                     (module), 301
```

```
ask_sdk_model.services.service_client_reapknsek_model.ui.card (module), 306
                                           ask_sdk_model.ui.image (module), 307
       (module), 302
ask_sdk_model.services.service_exceptionask_sdk_model.ui.link_account_card(mod-
       (module), 303
                                                   ule), 307
ask_sdk_model.services.skill_messaging.easkr_sdk_model.ui.output_speech (module),
                                                   308
       (module), 292
ask_sdk_model.services.skill_messaging.senk_skklhodessagiphaingtest_output_speech
                                                   (module), 308
       (module), 293
ask_sdk_model.services.skill_messaging.sksklsdksmedehgusepvåvebehåvnor (module),
                                                   309
       (module), 293
ask_sdk_model.services.ups.distance_unitask_sdk_model.ui.reprompt (module), 309
                                           ask_sdk_model.ui.simple_card(module), 309
       (module), 294
ask_sdk_model.services.ups.error
                                     (mod-
                                           ask_sdk_model.ui.ssml_output_speech
                                                   (module), 310
       ule), 294
                                           ask_sdk_model.ui.standard_card (module),
ask_sdk_model.services.ups.error_code
       (module), 295
                                                   310
ask_sdk_model.services.ups.phone_number ask_sdk_model.user(module), 332
       (module), 295
                                           ask_sdk_model_runtime.api_client
                                                                                 (mod-
ask_sdk_model.services.ups.temperature_unit
                                                   ule), 58
       (module), 296
                                           ask_sdk_model_runtime.api_client_message
ask_sdk_model.services.ups.ups_service_client (module), 59
       (module), 296
                                           ask_sdk_model_runtime.api_client_request
ask_sdk_model.session(module), 326
                                                   (module), 59
ask sdk model.session ended error (mod-
                                           ask_sdk_model_runtime.api_client_response
       ule), 327
                                                   (module), 59
ask_sdk_model.session_ended_error_type
                                           ask_sdk_model_runtime.api_configuration
       (module), 327
                                                   (module), 60
ask_sdk_model.session_ended_reason(mod-
                                           ask_sdk_model_runtime.api_response(mod-
       ule), 327
                                                   ule), 60
ask_sdk_model.session_ended_request
                                           ask_sdk_model_runtime.authentication_configuration
       (module), 328
                                                   (module), 60
ask_sdk_model.session_resumed_request
                                           ask_sdk_model_runtime.base_service_client
       (module), 329
                                                   (module), 61
ask_sdk_model.slot (module), 329
                                           ask_sdk_model_runtime.exceptions
                                                                                 (mod-
ask sdk model.slot confirmation status
                                                   ule), 61
                                           ask_sdk_model_runtime.lwa.access_token
       (module), 330
ask sdk model.slu.entityresolution.resolution (module),55
       (module), 303
                                           ask_sdk_model_runtime.lwa.access_token_request
ask_sdk_model.slu.entityresolution.resolutions (module), 56
       (module), 304
                                           ask_sdk_model_runtime.lwa.access_token_response
ask sdk model.slu.entityresolution.status
                                                   (module), 56
       (module), 304
                                           ask_sdk_model_runtime.lwa.error (module),
ask_sdk_model.slu.entityresolution.status_code 57
       (module), 305
                                           ask_sdk_model_runtime.lwa.lwa_client
ask_sdk_model.slu.entityresolution.value
                                                   (module), 57
       (module), 305
                                           ask_sdk_model_runtime.serializer (mod-
ask_sdk_model.slu.entityresolution.value_wrappende),62
       (module), 305
                                           ask_sdk_model_runtime.service_client_response
ask_sdk_model.status(module), 330
                                                   (module), 63
ask_sdk_model.supported_interfaces(mod- ask_sdk_runtime.dispatch(module), 3, 6
       ule), 331
                                           ask_sdk_runtime.dispatch_components.exception_compo
ask_sdk_model.task(module), 332
                                                   (module), 5, 8
ask_sdk_model.ui.ask_for_permissions_conaektsdkrduntime.dispatch_components.request_components
       (module), 306
                                                   (module), 3, 7
```

```
ask_sdk_runtime.exceptions (module), 13
                                           ask_smapi_model.v1.isp.editable_state
ask_sdk_runtime.skill(module),9
                                                  (module), 378
ask_sdk_runtime.skill_builder (module), 11
                                           ask_smapi_model.v1.isp.in_skill_product_definition
ask_sdk_s3.adapter (module), 51
                                                  (module), 378
ask_sdk_s3.object_keygen (module), 52
                                           ask_smapi_model.v1.isp.in_skill_product_definition_
ask_sdk_webservice_support.verifier
                                                  (module), 379
       (module), 44
                                           ask smapi model.vl.isp.in skill product summary
ask_sdk_webservice_support.verifier_constants (module), 380
       (module), 43
                                           ask_smapi_model.v1.isp.in_skill_product_summary_real
ask_sdk_webservice_support.webservice_handler (module), 381
       (module), 45
                                           ask_smapi_model.v1.isp.isp_summary_links
ask_smapi_model.services.skill_management.skill(modula);elfent_service_client
                                           ask_smapi_model.v1.isp.list_in_skill_product
       (module), 334
ask_smapi_model.v1.bad_request_error
                                                  (module), 381
       (module), 539
                                           ask_smapi_model.v1.isp.list_in_skill_product_respon
ask_smapi_model.v1.catalog.create_content_uploa(nodule).r86quest
                                           ask_smapi_model.v1.isp.localized_privacy_and_compl:
       (module), 367
ask_smapi_model.v1.catalog.create_content_uploa(module), 2882ponse
                                           ask_smapi_model.v1.isp.localized_publishing_informations.
       (module), 367
ask_smapi_model.v1.catalog.presigned_upload_par(module), $83
       (module), 368
                                           ask_smapi_model.v1.isp.marketplace_pricing
ask_smapi_model.v1.catalog.upload.catalog_uploadake, 384
                                           ask_smapi_model.v1.isp.price_listing
       (module), 362
ask_smapi_model.v1.catalog.upload.content_uploadnodulee_3&4mmary
                                           ask_smapi_model.v1.isp.privacy_and_compliance
       (module), 362
ask_smapi_model.v1.catalog.upload.file_upload_s(wwduk), 385
       (module), 363
                                           ask_smapi_model.v1.isp.product_response
ask_smapi_model.v1.catalog.upload.get_content_u(pibdala)_n285ponse
       (module), 363
                                           ask_smapi_model.v1.isp.product_type
ask_smapi_model.v1.catalog.upload.ingestion_sta(module), 385
                                           ask_smapi_model.v1.isp.publishing_information
       (module), 364
ask_smapi_model.v1.catalog.upload.ingestion_ste(modula), 386
       (module), 364
                                           ask_smapi_model.v1.isp.purchasable_state
                                                  (module), 386
ask_smapi_model.v1.catalog.upload.location
       (module), 365
                                           ask smapi model.v1.isp.stage (module), 387
ask_smapi_model.v1.catalog.upload.pre_sign&dsmapii_model.v1.isp.status
                                                                              (module),
       (module), 365
ask_smapi_model.v1.catalog.upload.pre_sigskdsmapiimedel.v1.isp.subscription_information
       (module), 365
                                                  (module), 388
ask_smapi_model.v1.catalog.upload.uploadaskgemaponmsdep.v1.isp.subscription_payment_frequent
                                                  (module), 388
       (module), 366
ask_smapi_model.v1.catalog.upload.uploadaskasmapi_model.v1.isp.summary_marketplace_pricing
       (module), 366
                                                  (module), 388
ask_smapi_model.v1.error(module),540
                                           ask_smapi_model.v1.isp.summary_price_listing
ask_smapi_model.v1.isp.associated_skill_respons(enodule), 389
       (module), 369
                                           ask_smapi_model.v1.isp.tax_information
ask_smapi_model.v1.isp.create_in_skill_product_(next_uks,t389)
       (module), 369
                                           ask_smapi_model.v1.isp.tax_information_category
ask_smapi_model.v1.isp.currency (module),
                                                  (module), 390
                                           ask_smapi_model.v1.isp.update_in_skill_product_req
ask_smapi_model.v1.isp.custom_product_prompts (module), 390
                                           ask_smapi_model.v1.link (module), 540
       (module), 370
ask_smapi_model.v1.isp.distribution_countskesmapi_model.v1.links(module), 541
                                           ask_smapi_model.v1.skill.account_linking.access_tol
```

(*module*), 370

```
(module), 391
                                                                                  (module), 517
ask_smapi_model.v1.skill.account_linkingaskcsmapilmodehgyfeqkest.certification.certificatio
           (module), 392
                                                                                  (module), 404
ask_smapi_model.v1.skill.account_linkingaskcsmapilmodehgvfeskohbecertification.certificatio
           (module), 393
                                                                                  (module), 404
ask_smapi_model.v1.skill.account_linkingaskcomapilmodehgvtypkill.certification.certificatio
           (module), 394
                                                                                  (module), 405
ask_smapi_model.v1.skill.action (module), ask_smapi_model.v1.skill.certification.certification
           515
                                                                                  (module), 405
ask_smapi_model.v1.skill.agreement_type ask_smapi_model.v1.skill.certification.distribution
           (module), 516
                                                                                  (module), 406
ask_smapi_model.v1.skill.alexa_hosted.hoaskdsmapilmodeto.v1.skill.certification.estimation_
           (module), 395
                                                                                  (module), 406
ask_smapi_model.v1.skill.alexa_hosted.hoaskdsmapilmmdetadataskill.certification.list_certif.
           (module), 395
                                                                                  (module), 407
ask_smapi_model.v1.skill.alexa_hosted.hoaskdsmapilmpdehiwsiskill.certification.publication
           (module), 395
                                                                                  (module), 407
ask_smapi_model.v1.skill.alexa_hosted.hoaskdsmapilmpdehiwsiskistatestification.review_track
                                                                                  (module), 408
           (module), 396
ask_smapi_model.v1.skill.alexa_hosted.hoaskdsmapilmpdehiwsiskitppeertification.review_track
           (module), 396
                                                                                  (module), 409
ask_smapi_model.v1.skill.alexa_hosted.hoatkdsmapllmodeposvtoskill.create_skill_request
           (module), 397
                                                                                  (module), 517
ask_smapi_model.v1.skill.alexa_hosted.hoatkdsmapilmodeposvtorkictedenatelskill_response
           (module), 397
                                                                                  (module), 518
ask_smapi_model.v1.skill.alexa_hosted.hoaskdsmapilmodpdsvtoskitoskitdedenatelsk113twith_package
           (module), 397
                                                                                  (module), 518
ask_smapi_model.v1.skill.alexa_hosted.hoaskdsmapilmodpdsvtoskitoskitdedvatuatioderation_
                                                                                  (module), 409
           (module), 398
ask_smapi_model.v1.skill.alexa_hosted.hoatkdsmapilmodpdsvtoskilhfevaluations.dialog_act
           (module), 398
                                                                                  (module), 410
ask_smapi_model.v1.skill.alexa_hosted.hoaskdsmapilmodetime.skill.evaluations.dialog_act_ty
           (module), 399
                                                                                  (module), 410
ask_smapi_model.v1.skill.beta_test.beta_test.beta_test.mapi_model.v1.skill.evaluations.intent
                                                                                  (module), 411
           (module), 402
ask_smapi_model.v1.skill.beta_test.statuask_smapi_model.v1.skill.evaluations.multi_turn
           (module), 402
                                                                                  (module), 411
ask_smapi_model.v1.skill.beta_test.test_bskysmapi_model.v1.skill.evaluations.profile_nlu_re
                                                                                  (module), 412
           (module), 403
ask_smapi_model.v1.skill.beta_test.testeaskiamapatmodestatuskill.evaluations.profile_nlu_re
           (module), 399
                                                                                  (module), 412
ask_smapi_model.v1.skill.beta_test.testeask_inaptemodes.vespkinke.evaluations.profile_nlu_se
           (module), 400
                                                                                  (module), 413
ask_smapi_model.v1.skill.beta_test.testeasktesapr_model.v1.skill.evaluations.resolutions_pe
           (module), 400
                                                                                  (module), 413
ask_smapi_model.v1.skill.beta_test.testeasktesapr_modbldefasksll.evaluations.resolutions_pe
           (module), 401
                                                                                  (module), 414
ask_smapi_model.v1.skill.beta_test.testeasktesaprsmodef.v1.skill.evaluations.resolutions_pe
           (module), 401
                                                                                  (module), 414
ask_smapi_model.v1.skill.build_details ask_smapi_model.v1.skill.evaluations.resolutions_pe
           (module), 516
                                                                                  (module), 415
ask_smapi_model.v1.skill.build_step
                                                                      ask_smapi_model.v1.skill.evaluations.slot
                                                                                  (module), 415
           (module), 516
ask_smapi_model.v1.skill.build_step_nameask_smapi_model.v1.skill.evaluations.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutions.slot_resolutio
```

```
(module), 416
                                                  (module), 425
ask_smapi_model.v1.skill.export_responseask_smapi_model.v1.skill.interaction_model.catalog
                                                  (module), 425
       (module), 518
ask_smapi_model.v1.skill.export_responseaskishapi_model.v1.skill.interaction_model.catalog
       (module), 519
                                                  (module), 426
ask_smapi_model.v1.skill.history.confideask_smapi_model.v1.skill.interaction_model.catalog
       (module), 416
                                                  (module), 426
ask_smapi_model.v1.skill.history.confideask_bmapi_model.v1.skill.interaction_model.catalog
       (module), 417
                                                  (module), 426
ask_smapi_model.v1.skill.history.dialog_ask_smapi_model.v1.skill.interaction_model.catalog
                                                  (module), 427
       (module), 417
ask_smapi_model.v1.skill.history.dialog_ask_nmmpi_model.v1.skill.interaction_model.catalog
       (module), 417
                                                  (module), 427
ask_smapi_model.v1.skill.history.intent ask_smapi_model.v1.skill.interaction_model.catalog
       (module), 418
                                                  (module), 428
ask_smapi_model.v1.skill.history.intent_askfsdapcembdel.v1.skill.interaction_model.catalog
       (module), 418
                                                  (module), 434
ask_smapi_model.v1.skill.history.intent_aequesapi_model.v1.skill.interaction_model.delegat
       (module), 419
                                                  (module), 434
ask_smapi_model.v1.skill.history.intent_mekuemaplomedes.v1.skill.interaction_model.dialog
       (module), 420
                                                  (module), 434
ask_smapi_model.v1.skill.history.intent_aequemapi_model.v1.skill.interaction_model.dialog_
       (module), 420
                                                  (module), 435
ask_smapi_model.v1.skill.history.interactsbnsmape_model.v1.skill.interaction_model.dialog_
       (module), 421
                                                  (module), 436
ask_smapi_model.v1.skill.history.locale_askqumapi_model.v1.skill.interaction_model.dialog_
       (module), 421
                                                  (module), 436
ask_smapi_model.v1.skill.history.publicatsbnsmapfumodel.v1.skill.interaction_model.dialog_
       (module), 422
                                                  (module), 437
ask_smapi_model.v1.skill.history.slot ask_smapi_model.v1.skill.interaction_model.has_ent
       (module), 422
                                                  (module), 437
ask_smapi_model.v1.skill.history.sort_fieski_fmapinmedelreduektltypeteraction_model.intent
                                                  (module), 438
       (module), 422
ask_smapi_model.v1.skill.image_attributeask_smapi_model.v1.skill.interaction_model.interact
                                                  (module), 438
       (module), 519
ask_smapi_model.v1.skill.image_dimensionask_smapi_model.v1.skill.interaction_model.interact
       (module), 520
                                                  (module), 439
ask_smapi_model.v1.skill.image_size
                                           ask_smapi_model.v1.skill.interaction_model.is_great
       (module), 520
                                                  (module), 439
ask_smapi_model.v1.skill.image_size_unitask_smapi_model.v1.skill.interaction_model.is_greater
       (module), 521
                                                  (module), 440
ask_smapi_model.v1.skill.import_responseask_smapi_model.v1.skill.interaction_model.is_in_dr
       (module), 521
                                                  (module), 440
ask_smapi_model.v1.skill.import_responseaskishapi_model.v1.skill.interaction_model.is_in_se
                                                  (module), 441
       (module), 521
ask_smapi_model.v1.skill.instance (mod- ask_smapi_model.v1.skill.interaction_model.is_less
       ule), 522
                                                  (module), 441
ask_smapi_model.v1.skill.interaction_mode&kcamapogmode&lvg.dkflhitinteraction_model.is_less
       (module), 423
                                                  (module), 442
ask_smapi_model.v1.skill.interaction_modeskcamapogmodealvg.ektityinteraction_model.is_not_
       (module), 424
                                                  (module), 442
ask_smapi_model.v1.skill.interaction_modeskcamapogmodealv4.skput.interaction_model.is_not_
       (module), 424
                                                  (module), 443
```

ask_smapi_model.v1.skill.interaction_modeskcamapogmodealv4.skehl.interaction_model.language

```
(module), 443
                                                   (module), 451
ask_smapi_model.v1.skill.interaction_modeskpsmmpt_model.v1.skill.manifest.connections_paylo
       (module), 444
                                                  (module), 451
ask_smapi_model.v1.skill.interaction_modeskpsmmpt_modes.v1.skill.manifest.critical_data_har
       (module), 444
                                                   (module), 451
ask_smapi_model.v1.skill.interaction_modeskpsmmpf_mbdms.vpekill.manifest.custom_apis
       (module), 445
                                                   (module), 452
ask_smapi_model.v1.skill.interaction_modeskssmapdefiodetiv1.skill.manifest.custom_connection
       (module), 445
                                                   (module), 453
ask_smapi_model.v1.skill.interaction_mode%kssmapfymedel.v1.skill.manifest.custom_interface
       (module), 446
                                                  (module), 453
ask_smapi_model.v1.skill.interaction_mode&k_s*mapvanhodetivn.skill.manifest.data_protection_
                                                  (module), 453
       (module), 446
ask_smapi_model.v1.skill.interaction_modeskvanhapicmodesby1.skill.manifest.display_interface
       (module), 447
                                                  (module), 454
ask_smapi_model.v1.skill.interaction_mode&kvanhapismppdelev1.skill.manifest.display_interface
       (module), 448
                                                  (module), 454
ask_smapi_model.v1.skill.interaction_mode&kvemaponmode&lvg.spddatemanifest.display_interface
       (module), 429
                                                  (module), 455
ask_smapi_model.v1.skill.interaction_mode&kvemaponmode&lv4.vkllh&smanifest.distribution_coun
       (module), 429
                                                   (module), 455
ask_smapi_model.v1.skill.interaction_mode&kvemaponmode&lv4.vki&lomadafest.distribution_mode
       (module), 430
                                                   (module), 462
ask_smapi_model.v1.skill.interaction_modeskvemsponmodebtvsoakcel.manifest.event_name
       (module), 430
                                                  (module), 462
ask_smapi_model.v1.skill.interaction_mode$kvensponmodeksv1.skill.manifest.event_name_type
       (module), 431
                                                   (module), 463
ask_smapi_model.v1.skill.interaction_mode&kvemaponmodet.vespbn&e.manifest.event_publication
       (module), 431
                                                  (module), 471
ask_smapi_model.v1.skill.interaction_modeskvemaponmodeskvetahl.manifest.flash_briefing_ap
       (module), 431
                                                   (module), 471
ask_smapi_model.v1.skill.interaction_modeskvemaponmodeskvetschknhlnmmeifest.flash_briefing_co
       (module), 432
                                                  (module), 472
ask_smapi_model.v1.skill.interaction_mode&kvemaponmwde&iwh_dkt&l.manifest.flash_briefing_ge
       (module), 432
                                                   (module), 472
ask_smapi_model.v1.skill.interaction_modeskvemaponmodesivh_skehs.manifest.flash_briefing_u
       (module), 433
                                                  (module), 473
ask_smapi_model.v1.skill.interface_definatkommapi_model.v1.skill.manifest.gadget_controlle:
       (module), 522
                                                  (module), 473
ask_smapi_model.v1.skill.interface_intenask_smapi_model.v1.skill.manifest.gadget_support
       (module), 523
                                                  (module), 474
ask_smapi_model.v1.skill.last_update_requestsmapi_model.v1.skill.manifest.game_engine_inter
       (module), 523
                                                  (module), 474
ask_smapi_model.v1.skill.list_skill_respankesmapi_model.v1.skill.manifest.health_alias
       (module), 524
                                                  (module), 474
ask_smapi_model.v1.skill.manifest.alexa_fok_bmaphensodepiw1.skill.manifest.health_apis
       (module), 449
                                                  (module), 475
ask_smapi_model.v1.skill.manifest.alexa_&sk_bmapnemsdehtv1fakell.manifest.health_interface
       (module), 449
                                                  (module), 475
ask_smapi_model.v1.skill.manifest.alexa_psksemaptimndeplv1nskrFacmanifest.health_protocol_v
       (module), 450
                                                  (module), 476
ask smapi model.v1.skill.manifest.audio ankermape model.v1.skill.manifest.health request
       (module), 450
                                                  (module), 476
ask_smapi_model.v1.skill.manifest.connecasknsmapi_model.v1.skill.manifest.house_hold_list
```

```
(module), 476
                                                                                                                    (module), 491
ask_smapi_model.v1.skill.manifest.interfask_smapi_model.v1.skill.manifest.skill_manifest_er
                (module), 477
                                                                                                                   (module), 491
ask_smapi_model.v1.skill.manifest.lambdaaekdpmapt_model.v1.skill.manifest.skill_manifest_lambdaaekdpmapt_model.v1.skill.manifest.skill_manifest_lambdaaekdpmapt_model.v1.skill.manifest.skill_manifest_lambdaaekdpmapt_model.v1.skill.manifest.skill_manifest_lambdaaekdpmapt_model.v1.skill.manifest.skill_manifest_lambdaaekdpmapt_model.v1.skill.manifest.skill_manifest_lambdaaekdpmapt_model.v1.skill.manifest.skill_manifest_lambdaaekdpmapt_model.v1.skill.manifest.skill_manifest_lambdaaekdpmapt_model.v1.skill.manifest.skill_manifest_lambdaaekdpmapt_model.v1.skill.manifest.skill_manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.v1.skill.manifest_lambdaaekdpmapt_model.
                (module), 478
                                                                                                                    (module), 492
ask_smapi_model.v1.skill.manifest.lambdaaskqsmapi_model.v1.skill.manifest.skill_manifest_le
                (module), 478
                                                                                                                   (module), 492
ask_smapi_model.v1.skill.manifest.localiaek_shaph_hoddefixq_shfol.manifest.skill_manifest_p:
                (module), 478
                                                                                                                    (module), 493
ask_smapi_model.v1.skill.manifest.localiaek_shaph_hoddeFindy.shfolimemsfest.skill_manifest_pressure ask_smapi_model.v1.skill.manifest.localiaek_shaph_hoddeFindy.shfolimemsfest.skill_manifest.pressure ask_smapi_model.v1.skill.manifest.localiaek_shaph_hoddeFindy.shfolimemsfest.skill_manifest.pressure ask_smapi_model.v1.skill.manifest.localiaek_shaph_hoddeFindy.shfolimemsfest.skill_manifest.pressure ask_smapi_model.v1.skill.manifest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolimemsfest.shfolim
                (module), 479
                                                                                                                   (module), 495
ask_smapi_model.v1.skill.manifest.localiaek_bmapthmode6.v1.skill.manifest.smart_home_apis
                                                                                                                   (module), 496
                (module), 480
ask_smapi_model.v1.skill.manifest.localiaek_smapic_model.v1.skill.manifest.smart_home_protoc
                (module), 480
                                                                                                                   (module), 496
ask_smapi_model.v1.skill.manifest.manifeaskgandgpt_modpbrt1.skill.manifest.ssl_certificate_t
                                                                                                                   (module), 497
                (module), 481
ask_smapi_model.v1.skill.manifest.music_a%kasmapi_model.v1.skill.manifest.up_channel_items
                (module), 482
                                                                                                                   (module), 497
ask_smapi_model.v1.skill.manifest.music_apksmapi_model.v1.skill.manifest.version
                (module), 482
                                                                                                                    (module), 497
ask_smapi_model.v1.skill.manifest.music_aapabmaptymodel.v1.skill.manifest.video_apis
                (module), 483
                                                                                                                    (module), 498
ask_smapi_model.v1.skill.manifest.music_asktemapnamedel.v1.skill.manifest.video_apis_local@
                (module), 483
                                                                                                                   (module), 498
ask_smapi_model.v1.skill.manifest.music_asktemaptymedel.v1.skill.manifest.video_app_interfo
                (module), 484
                                                                                                                    (module), 499
ask_smapi_model.v1.skill.manifest.music_fektsmepi_model.v1.skill.manifest.video_catalog_in
                (module), 484
                                                                                                                   (module), 499
ask_smapi_model.v1.skill.manifest.music_askesmapesmodel.v1.skill.manifest.video_country_in:
                (module), 484
                                                                                                                    (module), 500
ask_smapi_model.v1.skill.manifest.music_arekquessapi_model.v1.skill.manifest.video_region
                (module), 485
                                                                                                                   (module), 500
ask_smapi_model.v1.skill.manifest.music_wskdmamki_model.v1.skill.manifest.viewport_mode
                                                                                                                    (module), 500
                (module), 485
ask_smapi_model.v1.skill.manifest.permisasknsmapmsmodel.v1.skill.manifest.viewport_shape
                (module), 485
                                                                                                                   (module), 501
ask_smapi_model.v1.skill.manifest.permisasbnsmame_model.v1.skill.manifest.viewport_specific
                (module), 486
                                                                                                                   (module), 501
ask_smapi_model.v1.skill.manifest.regionask_smapi_model.v1.skill.metrics.get_metric_data_re
                (module), 487
                                                                                                                   (module), 502
ask_smapi_model.v1.skill.manifest.requesask_smapi_model.v1.skill.metrics.metric
                (module), 487
                                                                                                                   (module), 503
ask_smapi_model.v1.skill.manifest.requesaskasmapi_model.v1.skill.metrics.period
                (module), 488
                                                                                                                   (module), 503
ask_smapi_model.v1.skill.manifest.skill_makismapi_model.v1.skill.metrics.skill_type
                (module), 488
                                                                                                                   (module), 504
ask_smapi_model.v1.skill.manifest.skill_maki_fmspiamodel.v1.skill.metrics.stage_for_metric
                (module), 489
                                                                                                                   (module), 504
ask_smapi_model.v1.skill.manifest.skill_makismapicmsdenh.vaskkill.private.accept_status
                                                                                                                    (module), 504
                (module), 490
ask_smapi_model.v1.skill.manifest.skill_maki_fmapiemdpelnv1.skill.private.list_private_dist_
                (module), 490
                                                                                                                   (module), 505
```

ask_smapi_model.v1.skill.manifest.skill_makismapiemvdebpv1.skill.private.private_distribut.

```
(module), 505
                                                                                                                      (module), 531
ask_smapi_model.v1.skill.publication_methsk_smapi_model.v1.skill.standardized_error_code
                 (module), 525
                                                                                                                      (module), 531
ask_smapi_model.v1.skill.reason (module), ask_smapi_model.v1.skill.status (module),
ask smapi model.v1.skill.regional ssl ceaskfsmape model.v1.skill.submit skill for certification
                 (module), 525
                                                                                                                      (module), 533
ask_smapi_model.v1.skill.resource_importaskasmapi_model.v1.skill.update_skill_with_package
                 (module), 526
                                                                                                                      (module), 533
ask_smapi_model.v1.skill.resource_statusask_smapi_model.v1.skill.upload_response
                                                                                                                      (module), 533
                 (module), 527
ask_smapi_model.v1.skill.response_statusask_smapi_model.v1.skill.validation_data_types
                                                                                                                      (module), 534
                 (module), 527
ask_smapi_model.v1.skill.simulations.alexakexmaptimodehfv1.skill.validation_details
                 (module), 506
                                                                                                                      (module), 535
ask_smapi_model.v1.skill.simulations.alexakremppismodel.v1.skill.validation_endpoint
                 (module), 506
                                                                                                                      (module), 537
ask_smapi_model.v1.skill.simulations.alexakrsmapnsmodehtwhtskill.validation_feature
                                                                                                                      (module), 537
                 (module), 507
ask_smapi_model.v1.skill.simulations.devask_smapi_model.v1.skill.validations.response_validations.response_validations.
                 (module), 507
                                                                                                                      (module), 512
ask_smapi_model.v1.skill.simulations.inpatk_smapi_model.v1.skill.validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validat
                 (module), 507
                                                                                                                      (module), 513
ask_smapi_model.v1.skill.simulations.invasktsmapremodet.v1.skill.validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validations.response_validat
                                                                                                                      (module), 513
                 (module), 508
ask_smapi_model.v1.skill.simulations.invasatsmapiempde&ev1.skill.validations.validations_ap
                 (module), 508
                                                                                                                      (module), 513
ask_smapi_model.v1.skill.simulations.metaškssmapi_model.v1.skill.validations.validations_ap
                                                                                                                      (module), 514
                (module), 509
ask_smapi_model.v1.skill.simulations.sesasbn_smapi_model.v1.skill.validations.validations_ap
                 (module), 509
                                                                                                                      (module), 514
ask_smapi_model.v1.skill.simulations.sesasbnsmapde_model.v1.skill.validations.validations_ap
                 (module), 509
                                                                                                                      (module), 515
ask_smapi_model.v1.skill.simulations.simasktsmapremodel.v1.skill.withdraw_request
                                                                                                                      (module), 538
                 (module), 510
ask_smapi_model.v1.skill.simulations.simakktsmapiapodeeequesstage_type
                                                                                                                                                                                     (module),
                 (module), 510
                                                                                                                      541
ask_smapi_model.v1.skill.simulations.simasktsmapiamodeesponseage_v2_type
                                                                                                                                                                                            (mod-
                                                                                                                      ule), 541
                 (module), 511
ask_smapi_model.v1.skill.simulations.sima$atsmapiapod@#&sponwendoatmanagement.vendor
                 (module), 511
                                                                                                                      (module), 538
ask_smapi_model.v1.skill.skill_interactionkmodepi_model.v1.vendor_management.vendors
                 (module), 528
                                                                                                                      (module), 539
ask_smapi_model.v1.skill.skill_interactienkmomepistdkusmapi_builder(module),53
                 (module), 528
                                                                                                     ask_smapi_sdk.utils(module), 54
                                                                                                     AskForPermissionsConsentCard
                                                                                                                                                                                  (class
ask_smapi_model.v1.skill.skill_status
                 (module), 529
                                                                                                                      ask_sdk_model.ui.ask_for_permissions_consent_card),
ask_smapi_model.v1.skill.skill_summary
                                                                                                                      306
                 (module), 529
                                                                                                     AskSdkException, 13
ask_smapi_model.v1.skill.skill_summary_ap$$OCIATE
                                                                                                                                 (ask_smapi_model.v1.skill.action.Action
                 (module), 530
                                                                                                                      attribute), 515
ask_smapi_model.v1.skill.ssl_certificateapay&oate_isp_with_skill_v1()
                 (module), 530
                                                                                                                      (ask_smapi_model.services.skill_management.skill_management]
ask_smapi_model.v1.skill.standardized_error
                                                                                                                     method), 334
```

- AssociatedSkillResponse (class in attribute), 76

 ask_smapi_model.v1.isp.associated_skill_response); tribute_map (ask_sdk_model.events.skillevents.proactive_subscription 369

 attribute), 77
- AT (ask_smapi_model.v1.isp.distribution_countries.Distribution@ion@iontties_map (ask_sdk_model.events.skillevents.proactive_subscription attribute), 371 attribute), 77
- AT (ask_smapi_model.v1.skill.manifest.distribution_countriestDistribution_Govpn(mids_sdk_model.events.skillevents.skill_disabled_requeattribute), 455
 attribute_map (ask_sdk_model.application.Applicationattribute_map (ask_sdk_model.events.skill_enabled_requestions.skill_enabled_
 - attribute), 311

 attribute), 78

 thribute man (ask odk model canfulfill can fulfill intent Griv Fulfill Intent), (ask odk model intent Intent), at
- attribute_map(ask_sdk_model.canfulfill_intant.CanFulfill_intent.Intent atattribute), 66 tribute), 317
- attribute_map(ask_sdk_model.canfulfill.can_fulfill_intant_reciprests_CanEplfilshn_tsdk_Request_intent_request.IntentRequest attribute), 66 attribute), 318
- attribute), 60 attribute), 318
 attribute_map (ask_sdk_model.canfulfill_slot.CanFulfitlSlot)ap (ask_sdk_model.interfaces.alexa.presentation.apl.alexa attribute), 67 attribute), 79
- attribute_map (ask_sdk_model.cause.Cause at attribute_map(ask_sdk_model.interfaces.alexa.presentation.apl.animatribute), 311 attribute), 81
- attribute_map (ask_sdk_model.connection_completed.@mmpletedsk_sdk_model.interfaces.alexa.presentation.apl.anima attribute), 312 attribute), 81
- attribute_map (ask_sdk_model.context.Context at- attribute_map (ask_sdk_model.interfaces.alexa.presentation.apl.animatribute), 313 attribute), 82
- attribute_map (ask_sdk_model.device.Device attribute_map(ask_sdk_model.interfaces.alexa.presentation.apl.anima attribute), 313
- attribute_map (ask_sdk_model.dialog.confirm_intent_directivesGroefirmd.pt(astDiredktiveodel.interfaces.alexa.presentation.apl.auto_attribute), 69 attribute), 83
- attribute_map(ask_sdk_model.dialog.confirm_slot_directive:Confirm_SlotDirektivek_model.interfaces.alexa.presentation.apl.clear_attribute), 69 attribute), 84
- attribute_map (ask_sdk_model.dialog.delegate_directivet.Delegate_D
- attribute_map (ask_sdk_model.dialog.dynamic_entitiesa_tdirective:Deynamic(laski_tixesD_imadialeinterfaces.alexa.presentation.apl.comp attribute), 70 attribute), 86
- attribute_map(ask_sdk_model.dialog.elicit_slot_directivetEliditStot_DirectivetK_sdk_model.interfaces.alexa.presentation.apl.comp attribute), 70 attribute), 88
- attribute_map (ask_sdk_model.directive.Directive attribute_map (ask_sdk_model.interfaces.alexa.presentation.apl.comp attribute), 316 attribute), 88
- attribute_map (ask_sdk_model.er.dynamic.entity.Entityattribute_map (ask_sdk_model.interfaces.alexa.presentation.apl.comp attribute), 71 attribute), 89
- attribute_map (ask_sdk_model.er.dynamic.entity_list_iterr.Entity_List_Iterrp (ask_sdk_model.interfaces.alexa.presentation.apl.comp attribute), 71 attribute), 90
- attribute_map (ask_sdk_model.er.dynamic.entity_valuea_tand_ishymomyms.En(itsk\u00edadk\u00edam\u00edadk\u00edam\u00edadk\u00edam\u00edadk\u00edam\u00edadk\u00edam\u00edadk\u00edam\u00edadk\u00edam\u00edadk\u00edam\u00edadk\u00edam\u00edadk\u00edam\u00edadk\u00edam\u00edadk\u00edam\u00edadk\u00edam\u00edadk\u00edam\u00edadk\u00edam\u00edadk\u00edam\u00edadk\u00edam\u00edam\u00edadk\u00edam\u00edam\u00edadk\u00edam\u00ed
- attribute_map (ask_sdk_model.events.skillevents.account_linked_bodynAcc(askt_sidlk_edbody.interfaces.alexa.presentation.apl.comp attribute), 73 attribute), 91
- attribute_map (ask_sdk_model.events.skillevents.accouut_linked_trequestpA(assb<u>u</u>ntlkinked|Reintesfaces.alexa.presentation.apl.comp attribute), 74 attribute), 93
- attribute_map (ask_sdk_model.events.skillevents.permission.Permissionap (ask_sdk_model.interfaces.alexa.presentation.apl.comp attribute), 74 attribute), 93
- attribute_map (ask_sdk_model.events.skillevents.permission_ideocepted_areq(uest_RelkminsidelAinterfiedRealuest.presentation.apl.contra attribute), 75 attribute), 94
- attribute_map (ask_sdk_model.events.skillevents.permixsion_ibody.@emmixs(anlBoxdlk_model.interfaces.alexa.presentation.apl.execuatribute), 75 attribute), 95
- attribute_map (ask_sdk_model.events.skillevents.permis.sion_idhangedmeq(ask_PedmissideCimaesfedRequesa.presentation.apl.idle_a attribute), 76 attribute), 96
- attribute_map(ask_sdk_model.events.skillevents.proactive_xiibscriptiona_pchastgexdlkb_ondyxletiataifaSashsdeintijoreSinatagiadBapollymove

- attribute), 96 attribute), 116 attribute_map (ask_sdk_model.interfaces.alexa.presentation.iiplixipenmunb (asklandphellint@formunalexa.presentation.aplt.para attribute), 97 attribute), 117 attribute_map (ask_sdk_model.interfaces.alexa.presentation.inplynaralhetpo(anshn_sdkl_Phardellet@tenfancesdalexa.presentation.aplt.rend attribute), 98 attribute), 118 attribute_map(ask_sdk_model.interfaces.alexa.presentation.iiplyplay_maedlasko_ndhamddlhiyMadlianexonlenandresentation.aplt.runti attribute), 99 attribute), 118 attribute_map(ask_sdk_model.interfaces.alexa.presentation.iiplaten_den_ado(askhesdk_dimechilarkerfdeeDabannemdJentation.aplt.scrol attribute), 100 attribute), 119 attribute_map (ask_sdk_model.interfaces.alexa.presentation.aiplweed_developlweed_develople.RetorlfaredDalexampmeStantation.aplt.send attribute), 120 attribute), 100 attribute_map (ask_sdk_model.interfaces.alexa.presentation.aipl.wota<u>rtenatru(usfk_rodlp)mpekedyiRtarfted</u>exunkforumpersentation.aplt.sequ attribute), 121 attribute), 101 attribute_map(ask_sdk_model.interfaces.alexa.presentation.iiph/wwn_imex;R(wnskmedk_model.interfaces.alexa.presentation.aplt.set_) attribute), 101 attribute), 122 attribute_map (ask_sdk_model.interfaces.alexa.presentation.iipluscalemtron(sfskrnsdhropedtyl.Southeflicen.sefberoalPropsertyation.aplt.set_v attribute), 123 attribute), 101 attribute_map(ask_sdk_model.interfaces.alexa.presentation.aph.userollmaphuscr attribute), 124 attribute), 102 attribute_map(ask_sdk_model.interfaces.alexa.presentation.inplistcoolinage(uskexsdkommoabedl.isteoflifebrakexGapnesanthtion.html.alex attribute), 103 attribute), 125 attribute_map (ask_sdk_model.interfaces.alexa.presentation.inpluserod_meaver(ta_sdo_modelandsbendalineerfatCasnutecoadpresentation.html.com) attribute), 104 attribute), 125 attribute_map (ask_sdk_model.interfaces.alexa.presentation.inplusequential(askm_ndk_ndhSdqlimttial(Commaland.presentation.html.hand attribute), 105 attribute), 126 attribute_map (ask_sdk_model.interfaces.alexa.presentation.inplusee_facass_(cosku_model_interfaces.alexa.presentation.html.mes. attribute), 106 attribute), 126 attribute_map (ask_sdk_model.interfaces.alexa.presentation.inplusee_page_(ask_model.interfaces.alexa.presentation.html.runt attribute), 107 attribute), 127 attribute_map (ask_sdk_model.interfaces.alexa.presentation.iiplusee_state_faces.alexa.presentation.html.star. attribute), 108 attribute), 128 attribute_map (ask_sdk_model.interfaces.alexa.presentation.inplusete_vahup (askundhn_dn&edVhluteGfannscandexa.presentation.html.star.
- attribute), 128 attribute), 108 attribute_map (ask_sdk_model.interfaces.alexa.presentation.iipluskewmtagn(sfokmsdkropodts/Skewfacessfedend?presents/ation.html.tran attribute), 129 attribute), 109

- attribute_map (ask_sdk_model.interfaces.alexa.presentation.iiph.speakmaiten(n_sko_mobka_mbspeakinklaefaCaxxuman_dnpay.model.request.au attribute), 110 attribute), 131
- attribute_map (ask_sdk_model.interfaces.alexa.presentation.iipluspeakndist(askn_model.interfaces.alexa.prese attribute), 110 attribute), 132
- attribute_map (ask_sdk_model.interfaces.alexa.presentation.iiplutcon_sfoorpn(goslopedky_floodesfoortn=frages.ntynazonpay.model.request.bu attribute), 111 attribute), 133
- attribute_map(ask_sdk_model.interfaces.alexa.presentation.iiplutser_resentation.iiplutse attribute), 112 attribute), 134
- attribute_map(ask_sdk_model.interfaces.alexa.presentation.iphatideom_squ(nask_ideo_Snoodee.interfaces.amazonpay.model.request.pr attribute), 112 attribute), 135
- attribute_map(ask_sdk_model.interfaces.alexa.presentation.aiphtalexa_ppesesktosikho_maplelinterfaces.AlemaPoesantatiodeA.pleinterfpa attribute), 113 attribute), 135
- attribute_map(ask_sdk_model.interfaces.alexa.presentation.iiphtuntompapeaxkomobkambAutofteefacesnamadonpay.model.request.se attribute), 114 attribute), 136
- attribute_map (ask_sdk_model.interfaces.alexa.presentation.iiphtron_mapd.@skm_ndhodel.interfaces.amazonpay.model.request.se attribute), 137 attribute), 115
- attribute_map (ask_sdk_model.interfaces.alexa.presentation.iiphtexecontxpdoushn.sobldsmdidel:tivxe.ffaceextationompaylstDidel:tivxsponse. attribute), 116 attribute), 139
- attribute_map(ask_sdk_model.interfaces.alexa.presentation.iiphtidle_roophnashdshlle@iodnhimuderfaces.amazonpay.model.response.

- attribute), 140
 attribute), 163
 attribute_map (ask_sdk_model.interfaces.amazonpay.mxxdekresponse_bid_in(g_skgsdk_menot_laleinaidsfBidisaxydk_ijrqdmyentDedinid_splayer_stattribute), 141
 attribute_map (ask_sdk_model.interfaces.amazonpay.mxxdekresponse_rdespi(astkonsdResnindstlanterfaces.audioplayer.caption_data.Constribute), 142
 attribute), 164
- attribute_map (ask_sdk_model.interfaces.amazonpay.model.riespouse_pripe(Arshicsdk_model.interfaces.audioplayer.clear_queue_diattribute), 142 attribute), 165
- attribute_map (ask_sdk_model.interfaces.amazonpay.modekvikouttko_nizapionsklesdklsvAodhbinitatfanDedaidsoplayer.current_playbac attribute), 145 attribute), 166
- attribute_map (ask_sdk_model.interfaces.amazonpay.modelxiloautthonicaqi(mskstattks_AnothelrintainfonStatusdioplayer.error.Error attribute), 146 attribute), 166
- attribute_map (ask_sdk_model.interfaces.amazonpay.modek\(\tilde{\text{locatthouttho}}\) rize\(\text{ottsh}\) titls_AnallokinaAnfailustesudioplayer.play_directive. Fattribute\(\text{)}\), 146

 attribute\(\text{)}\), 167
- attribute_map (ask_sdk_model.interfaces.amazonpay.modekvi.lobitlingmagreaskentlkaumideleinBitfingeA.gmedinphaAemibarback_failed attribute), 147 attribute), 168
- attribute_map (ask_sdk_model.interfaces.amazonpay.modekvi.lobitlingmagr@askentlklotridke.Birlting@agra@askentlklotridke.Birlting@agra@askentlklotridke.Birlting@agra@askentlklotridke.Birlting@agra@askentlklotridke.Birlting@agra@askentlklotridke.Birlting@agra@askentlklotridke.Birlting@agra@askentlklotridke.
- attribute_map (ask_sdk_model.interfaces.amazonpay.macdek:ilodestination(Destination)del.interfaces.audioplayer.playback_nearly attribute), 150 attribute), 169
- attribute_map (ask_sdk_model.interfaces.amazonpay.model:viloprice_Price_Rrice(ask_sdk_model.interfaces.audioplayer.playback_starte attribute), 151 attribute), 170
- attribute_map (ask_sdk_model.interfaces.amazonpay.modekvik)provideva_cattribute), 152 attribute), 171
- attribute_map (ask_sdk_model.interfaces.amazonpay.macdekiloprovidence (edsk_Rdkv_index@hidterfaces.audioplayer.stop_directive.S attribute), 152 attribute), 171
- attribute_map (ask_sdk_model.interfaces.amazonpay.model:vilosetler_rbiltingslagsdelmmanded.imribrfiæseSedlediBiblingeAgræamesSuAatmibu attribute), 153 attribute), 172
- attribute_map (ask_sdk_model.interfaces.amazonpay.modekviksetler_roude(askt_midblutescildlan@mfacAstaibtoresctive.automotive_state attribute), 154 attribute), 172
- attribute_map (ask_sdk_model.interfaces.amazonpay.recquextidhatge_amapx(anskpaykrequedst.KihanfgeAsmazonPatykRequentnections_rec attribute), 155 attribute), 181
- attribute_map (ask_sdk_model.interfaces.amazonpay.requestisetupeamaxo(askayadkequesdesetupefaces.comPanyReignussconnections_restatribute), 156 attribute), 182
- attribute_map (ask_sdk_model.interfaces.amazonpay.responsécautæzon_apu\a_sdk_rendk_renpdukérAanfacesPaylEnrotiRuspanneections_sta attribute), 157
 attribute), 183
- attribute_map (ask_sdk_model.interfaces.amazonpay.responsecohiargemann(mosk_sdky_maxdel.Ghenfgw&sncapnPctyBessehtities.base_enattribute), 158

 attribute), 173
- attribute_map (ask_sdk_model.interfaces.amazonpay.responsidesetup_mapx(anskpaskresallessitutpfacescarPayReisolls.entities.postal_aattribute), 158

 attribute), 174
- attribute_map (ask_sdk_model.interfaces.amazonpay.vd.tamazon_tpay_maxpo(n.sks_pdks_pnAded.interfigyEas:artRespoinses.entities.restaura attribute), 159 attribute), 175
- attribute_map (ask_sdk_model.interfaces.amazonpay.vd.tcharige_vana_zonpay.vd.t
- attribute_map (ask_sdk_model.interfaces.amazonpay.vd.tcharige_wareazonpp(asskrexdklt_GhdegerArenfaonPassResultions.requests.print_i
 attribute), 160 attribute), 177
- attribute_map (ask_sdk_model.interfaces.amazonpay.vdtsetup_com_apa(asktuspdk_mnodePinyterfaces.connections.requests.print_pattribute), 161 attribute), 177
- attribute_map (ask_sdk_model.interfaces.amazonpay.vd.tsetup_canazonay.vd.tsetup_canazonayases.sdk_setupAlmatamfdraysRessultections.requests.print_vattribute), 162

 attribute), 162
- attribute_map (ask_sdk_model.interfaces.audioplayer.audio_itentAudio-fpe(nsk_sdk_model.interfaces.connections.requests.scheduattribute), 162 attribute), 178
- attribute_map (ask_sdk_model.interfaces.audioplayer.audio<u>r_iterut_metradipt(askudsidHterniMetaidtetr</u>faces.connections.requests.schedu attribute), 163 attribute), 179
- attribute_map(ask_sdk_model.interfaces.audioplayer.audior_phayee_interfaces.duask4.udko.Phayler.limiterfaces.connections.send_request_d

attribute), 183 attribute), 199 attribute_map (ask_sdk_model.interfaces.connections.send_response_relige_ctisk_.SehlaRuspelnistDiffecetisvdisplay.plain_text.PlainText attribute), 184 attribute), 200 attribute_map (ask_sdk_model.interfaces.connections.edc.starit_covne_ention_(dike_stake_stackCintaefativesDissplitiy.plain_text_hint.Plain attribute), 180 attribute), 200 attribute_map(ask_sdk_model.interfaces.custom_interface_rccontrollercontroll attribute), 184 attribute), 200 attribute_map (ask_sdk_model.interfaces.custom_interface_countrolle_mayertalEk_esdk_model.interfaces.display.rich_text.RichText attribute), 185 attribute), 201 attribute_map (ask_sdk_model.interfaces.custom_interface_constrolle_maventasklistlesterfaces.display.template.Template attribute), 185 attribute), 201 attribute_map(ask_sdk_model.interfaces.custom_interface_cdontrolle_maver(usk_esdk_edo_deduinterfacessRsplainedRegionstent.TextCor attribute), 186 attribute), 202 attribute_map(ask_sdk_model.interfaces.custom_interfacer_cdustroller.expi(askorsdkxpinadidrinterfaces.display.text_field.TextField attribute), 187 attribute), 203 attribute_map(ask_sdk_model.interfaces.custom_interface<u>r</u>cdmtroller.wexpi(ask_rsdk_entdlephimetelfacessgadget_controller.set_light_ attribute), 188 attribute), 204 attribute_map(ask_sdk_model.interfaces.custom_interface_cdontrollerdrepdaskHesdtlermodel.interfaces.game_engine.input_handler attribute), 205 attribute), 188 attribute_map(ask_sdk_model.interfaces.custom_interface_rccontrolle_msepd_aske_sdk_endilectistesfandDecentiveDecentiveDecention_interfaces.custom_interface_rccontrolle_msepd_aske_sdk_endilectistesfandDecentiveDecentiveDecention_interfaces.custom_interfaces_rccontrolle_msepd_aske_sadk_endilectistesfandDecentiveDecention_interfaces.custom_interfaces.custom_interfaces_rccontrolle_msepd_aske_sadk_endilectistesfandDecentiveDecentiveDecention_interfaces.custom_interfaces_rccontrolle_msepd_aske_sadk_endilectistesfandDecentiveDecentiveDecention_interfaces.custom_interfaces_rccontrolle_msepd_aske_sadk_endilectistesfandDecentiveDecentiveDecention_interfaces.custom_interfaces_rccontrolle_msepd_aske_sadk_endilectistesfandDecentiveDecentiveDecention_interfaces.custom_interfaces_rccontrolle_msepd_aske_sadk_endilectistesfandDecentiveDecentiveDecention_interfaces_rccontrolle_msepd_aske_sadk_endilectistesfandDecentiveDecenti attribute), 189 attribute), 205 attribute_map(ask_sdk_model.interfaces.custom_interface_cdontrolle_mstepr(aske_stlkh_andlkel_idterfaioes.StantEvenfihoustlepr_Disputivha attribute), 190 attribute), 206 attribute_map (ask_sdk_model.interfaces.custom_interface_cdontrolle_msstapp(askentdkamolker_idinexfivesSgapExantiHandlienDerAdtituede attribute), 190 attribute), 207 attribute_map(ask_sdk_model.interfaces.display.body_atetuplidtedtBodyJen(pkhtesldk_model.interfaces.geolocation.coordinate.Coordinat attribute), 207 attribute), 191 $\verb|attribute_map| (ask_sdk_model.interfaces.display.body_aterupliate2 + Body Terupliate2 + Body Terupliate2$ attribute), 208 attribute), 192 attribute_map (ask_sdk_model.interfaces.display.body_atemplate3tRody3template3tRody3template3tk_model.interfaces.geolocation.geolocation_sta attribute), 193 attribute), 208 attribute_map (ask_sdk_model.interfaces.display.body_atemplatestEsody_atem attribute), 193 attribute), 209 $\verb|attribute_map| (ask_sdk_model.interfaces.display.body_aterupliates T-Bo_dy Terupliates T-Bo_dy T-B$ attribute), 209 attribute), 194 attribute_map (ask_sdk_model.interfaces.display.displaytinterfaces_displaytinterfaces.geolocation.speed.Speed attribute), 194 attribute), 210 attribute_map (ask_sdk_model.interfaces.display.display_tstatesDisplay_Statesk_sdk_model.interfaces.messaging.message_received attribute), 195 attribute), 211 attribute_map (ask_sdk_model.interfaces.display.element_tseleoted_erequers(deslenseltt_Saludeted)theqfacests.monetization.vl.in_skill_pro attribute), 195 attribute), 212 attribute_map (ask_sdk_model.interfaces.display.hint.Hintribute_map (ask_sdk_model.interfaces.navigation.assistance.annou attribute), 196 attribute), 213 attribute_map (ask_sdk_model.interfaces.display.hint_directivevlHintelDirecpt(usk_sdk_model.interfaces.navigation.navigation_interj attribute), 196 attribute), 213 attribute_map(ask_sdk_model.interfaces.display.image.trnagebute_map(ask_sdk_model.interfaces.playbackcontroller.next_con attribute), 197 attribute), 214 attribute_map(ask_sdk_model.interfaces.display.image_tinstantoetlmagetpstaskc_esdk_model.interfaces.playbackcontroller.pause_co attribute), 215 attribute), 197 attribute_map (ask_sdk_model.interfaces.display.list_itent_Lishthume_map (ask_sdk_model.interfaces.playbackcontroller.play_con attribute), 215 attribute), 198 attribute_map(ask_sdk_model.interfaces.display.list_templatedutistTemplatesk_sdk_model.interfaces.playbackcontroller.previous_

attribute_map(ask_sdk_model.interfaces.display.list_template2\distTemplate2\distTemplate2\distTemplate3\distTempla

attribute), 216

Index

attribute), 199

588

attribute), 216 attribute), 325

attribute), 222

attribute), 232

- attribute_map (ask_sdk_model.interfaces.system.error_acatuseiErroreCaruse) (ask_sdk_model.response_envelope.ResponseEnvelope attribute), 217 attribute), 325
- attribute_map (ask_sdk_model.interfaces.system.exception_winboutnterred_prequest_attribute), 218 tribute), 326
- attribute_map (ask_sdk_model.interfaces.system.system_tstate\text{istate}\text{System_State} (ask_sdk_model.services.device_address.address.Addre attribute), 218 attribute), 233
- attribute_map(ask_sdk_model.interfaces.tasks.completet_task_tditeetimea&domskletelkaskDdeetsteveices.device_address.error.Error attribute), 219

 attribute), 234
- attribute_map (ask_sdk_model.interfaces.videoapp.launth_xdirective_Ivampdaski_redkv_model.services.device_address.short_address attribute), 220 attribute), 235
- attribute_map (ask_sdk_model.interfaces.videoapp.metadataiMetadataap (ask_sdk_model.services.directive.directive.Directive attribute), 220 attribute), 236
- attribute_map (ask_sdk_model.interfaces.videoapp.videot_tappi_interfaces.videoapp
- attribute_map (ask_sdk_model.interfaces.videoapp.video_titein5\footnote{\text{titein5}\footnote{\text{titein5}\footnote{\text{Vittleo_Itemp}}}} (ask_sdk_model.services.directive.header.Header attribute), 221 attribute), 237
- attribute), 221 attribute), 237 attribute_map (ask_sdk_model.interfaces.viewport.apl.ætutrenitocomfigurapi(msk_wdk_nthankfiserviiws.directive.send_directive_reque
- attribute_map (ask_sdk_model.interfaces.viewport.apl.wiewportucanfigurationk_Vidwpnrtdebrsfigvincesialirective.speak_directive.Speak_attribute), 222 attribute), 238

attribute), 237

- attribute_map (ask_sdk_model.interfaces.viewport.apl_aviewpidrt_vteutenAPL(Viskwpodkt_Strandeel.services.endpoint_enumeration.endpoint_attribute), 227 attribute), 238
- attribute_map (ask_sdk_model.interfaces.viewport.apltainter_isegmentvlnter(Sekmodel.services.endpoint_enumeration.endpoint attribute), 223 attribute), 239
- attribute_map (ask_sdk_model.interfaces.viewport.aplta_viewport_state_APlaski_esdpom8thekservices.endpoint_enumeration.endpoi attribute), 228 attribute), 240
- attribute_map (ask_sdk_model.interfaces.viewport.experiences.bexperience) (ask_sdk_model.services.endpoint_enumeration.error.E attribute), 228 attribute), 240
- attribute_map (ask_sdk_model.interfaces.viewport.sizeacontiniuous_eviewpo(us_kizadE_omtidubusMiiowpagadigaet_controller.animation_sattribute), 224 attribute), 241
- attribute_map (ask_sdk_model.interfaces.viewport.sizeadiscrete_uview_poort_kicsk_Didk_reneVieluspoviSesegadget_controller.light_anima attribute), 224 attribute), 242
- attribute_map (ask_sdk_model.interfaces.viewport.sizeaviewpidotusize.NiewpaskSizlk_model.services.gadget_controller.set_light_poattribute), 225 attribute), 242
- attribute_map (ask_sdk_model.interfaces.viewport.typed_viewportestate; f (pskl_VidwpnotSeltservices.game_engine.deviation_recog attribute), 230 attribute), 243
- attribute_map (ask_sdk_model.interfaces.viewport.viewport_istante.Viewport(8skt_esdk_model.services.game_engine.event.Event attribute), 232 attribute), 244
- attribute), 232 attribute), 244
 attribute_map(ask_sdk_model.interfaces.viewport.viewport_istante_wideox/V(desk_sdk_model.services.game_engine.input_event.Input_ev
- attribute_map (ask_sdk_model.interfaces.viewport.viewport_viders\sigma_iewppo(tt\side_salk_model.services.game_engine.input_handler_eattribute), 232 attribute), 246

attribute), 245

- attribute_map (ask_sdk_model.launch_request.LaunchRequestbute_map (ask_sdk_model.services.game_engine.pattern.Pattern attribute), 319 attribute), 246
- attribute_map (ask_sdk_model.permissions.Permissions*ttribute_map (ask_sdk_model.services.game_engine.pattern_recogni attribute), 320 attribute), 247
- attribute_map (ask_sdk_model.person.Person at attribute_map (ask_sdk_model.services.game_engine.progress_recognatribute), 320 attribute), 320
- attribute_map (ask_sdk_model.request.Request at- attribute_map (ask_sdk_model.services.game_engine.recognizer.Recognizer.
- attribute_map (ask_sdk_model.request_envelope.RequestEnvirlope e_map (ask_sdk_model.services.list_management.alexa_list.Al attribute), 324 attribute), 250
- attribute_map (ask_sdk_model.response.Response attribute_map(ask_sdk_model.services.list_management.alexa_list_it

```
attribute), 250
                                                                                                                                                                                                                                attribute), 272
attribute_map (ask_sdk_model.services.list_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_management.thexoulise_m
                               attribute), 251
                                                                                                                                                                                                                               attribute), 274
attribute_map (ask_sdk_model.services.list_management.talexboulists_matadask_Alkx_ahixdeMsetradaes.proactive_events.create_proact
                               attribute), 251
                                                                                                                                                                                                                                attribute), 275
attribute_map (ask_sdk_model.services.list_managemeattribute_itemp_(weskuesdk_meathel.ist/teimReppwasttive_events.error.Error
                               attribute), 252
                                                                                                                                                                                                                               attribute), 275
attribute_map(ask_sdk_model.services.list_management.treineu_tist_reape(sts&_redte_tnistlkelgserstices.proactive_events.event.Event
                               attribute), 252
                                                                                                                                                                                                                                attribute), 275
attribute_map (ask_sdk_model.services.list_managemeattemoblerror_map (ask_sdk_model.services.proactive_events.relevant_aud
                               attribute), 253
                                                                                                                                                                                                                                attribute), 277
attribute_map(ask_sdk_model.services.list_management.forbiddere_enrorp.faskiddknEnrobel.services.reminder_management.alert_i
                                                                                                                                                                                                                                attribute), 278
                               attribute), 253
attribute_map (ask_sdk_model.services.list_management.timkischinks_map (ask_sdk_model.services.reminder_management.alert_i
                               attribute), 253
                                                                                                                                                                                                                                attribute), 278
attribute_map (ask_sdk_model.services.list_management.tisti_bodyd_istBpd(ask_sdk_model.services.reminder_management.error.l
                               attribute), 254
                                                                                                                                                                                                                                attribute), 279
attribute_map(ask_sdk_model.services.list_management.tisti_treated_meventrskegadstythidelreeteidlesenerRinglesstmanagement.event.i
                                                                                                                                                                                                                                attribute), 279
                               attribute), 254
attribute_map(ask_sdk_model.services.list_management.tistideltted_marentask_gsdst_uhixdDeservidesentRenderst_management.get_re
                               attribute), 255
                                                                                                                                                                                                                                attribute), 280
attribute_map (ask_sdk_model.services.list_management.tisti_tbent_ebody.b.(stklentBlody.odel.services.reminder_management.get_re
                               attribute), 255
                                                                                                                                                                                                                                attribute), 281
attribute_map (ask_sdk_model.services.list_management.tisti_thentse_cneante(h_sdv_entk_rapplest_slast)tenss@riatthedEncontRequestt.push_i
                               attribute), 256
                                                                                                                                                                                                                                attribute), 281
attribute_map (ask_sdk_model.services.list_management.tisti_tbentse_deckete(a_skventk_requodest.kist\titenssDeciletddEvnatRuggmeent.recurr
                               attribute), 257
                                                                                                                                                                                                                                attribute), 282
attribute_map (ask_sdk_model.services.list_management.tisti_thennse_updated_skvsdk_modelstskisthennsthiddted_finemaffequenttremina
                               attribute), 258
                                                                                                                                                                                                                                attribute), 284
attribute_map (ask_sdk_model.services.list_management.tisti_topdotedneve(utskegdksmlasttUpelatiattEvremRulpresnanagement.remina
                               attribute), 261
                                                                                                                                                                                                                                attribute), 284
attribute_map (ask_sdk_model.services.list_management.ttatuts\Status\nap(ask_sdk_model.services.reminder_management.remind
                                                                                                                                                                                                                                attribute), 285
                               attribute), 262
attribute_map (ask_sdk_model.services.list_management.tupdate_tist_titem_(ask_Upddet.list\titem_ask_Upddet.list\titem)
                                                                                                                                                                                                                                attribute), 285
                               attribute), 262
attribute_map (ask_sdk_model.services.list_management.tupdate_tist_recquestly_pdutehistNesquestes.reminder_management.remind
                               attribute), 262
                                                                                                                                                                                                                                attribute), 287
attribute_map (ask_sdk_model.services.lwa.access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Access_tokæn_treinbest.Acc
                               attribute), 264
                                                                                                                                                                                                                                attribute), 288
attribute_map (ask_sdk_model.services.lwa.access_tokæn_tresprontseeAccess_Kokerntkesprontsel.services.reminder_management.remind
                               attribute), 264
                                                                                                                                                                                                                               attribute), 289
attribute_map(ask_sdk_model.services.lwa.error.Errorattribute_map(ask_sdk_model.services.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_manageme
                               attribute), 264
                                                                                                                                                                                                                                attribute), 289
attribute_map (ask_sdk_model.services.monetization.errot.Einonte_map (ask_sdk_model.services.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_mana
                               attribute), 267
                                                                                                                                                                                                                                attribute), 290
attribute_map(ask_sdk_model.services.monetization.in_tskilliproductdn$killskroxdlkctmodel.services.reminder_management.spoken
                               attribute), 268
                                                                                                                                                                                                                                attribute), 290
attribute_map(ask_sdk_model.services.monetization.inatskitli_productmtron(sasktiookk_nesopenservi6kisllPnoiduderTnonasaastionsRespignes
                                                                                                                                                                                                                                attribute), 291
                               attribute), 268
attribute_map (ask_sdk_model.services.monetization.in_txkilli_pwductn_aresporks_edh_shibhPolochuviscResskohls_enessaging.error.Error
                                                                                                                                                                                                                                attribute), 292
                               attribute), 269
attribute_map(ask_sdk_model.services.monetization.metadatabMetadatap(ask_sdk_model.services.skill_messaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_skill_massaging.send_s
```

attribute_map(ask_sdk_model.services.monetization.restdtr_setaResultSap(ask_sdk_model.services.ups.error.Error

attribute), 293

```
attribute), 295
attribute_map (ask_sdk_model.services.ups.phone_number.PhoneNumber (ask_sdk_model_runtime.lwa.error.Error attribute), 295
attribute_map (ask_sdk_model.session.Session at-attribute_map (ask_smapi_model.v1.bad_request_error.BadRequestEntribute), 326
attribute_map (ask_sdk_model.session_ended_error.SessionEindedError.p. (ask_smapi_model.v1.catalog.create_content_upload_uattribute), 327
attribute_map (ask_sdk_model.session_ended_request.SessionEindedReape(stsk_smapi_model.v1.catalog.create_content_upload_uattribute), 328
attribute_map (ask_sdk_model.session_ended_request.SessionEindedReape(stsk_smapi_model.v1.catalog.create_content_upload_uattribute), 328
```

- attribute_map (ask_sdk_model.session_resumed_request_SessionResumedRagkestnapi_model.v1.catalog.presigned_upload_part_i
 attribute), 329
 attribute, 368
 attribute map (ask_sdk_model.slot Slot_attribute) attribute map (ask_sdk_model.slot Slot_attribute) attribute map (ask_sdk_model.slot Slot_attribute)
- attribute_map (ask_sdk_model.slot.Slot attribute), attribute_map(ask_smapi_model.v1.catalog.upload.catalog_upload_b 330 attribute), 362
- attribute_map (ask_sdk_model.slu.entityresolution.resolution:Resolution:p (ask_smapi_model.v1.catalog.upload.content_upload_f attribute), 304 attribute), 362
- attribute_map (ask_sdk_model.slu.entityresolution.resaltutionisRevolutions) (ask_smapi_model.v1.catalog.upload.get_content_uplo attribute), 304 attribute), 364
- attribute_map (ask_sdk_model.slu.entityresolution.status_Status_ute_map (ask_smapi_model.v1.catalog.upload.location.Location attribute), 304 attribute), 365
- attribute_map (ask_sdk_model.slu.entityresolution.valuet\ahie\oute_map (ask_smapi_model.v1.catalog.upload.pre_signed_url.P attribute), 305 attribute), 365
- attribute_map (ask_sdk_model.slu.entityresolution.valuet_wrapper &_lme\(\) (ask_smapi_model.v1.catalog.upload.pre_signed_url_in attribute), 305 attribute), 366
 attribute_map (ask_sdk_model.status.Status at-attribute_map (ask_smapi_model.v1.catalog.upload.upload_ingestion)
- tribute), 330 attribute), 366 attribute_map (ask_sdk_model.supported_interfaces.Supportedbutæfacesp (ask_smapi_model.v1.error.Error at-
- attribute_map (ask_sdk_model.supported_interfaces.Supportedbutærfaces) (ask_smapi_model.v1.error.Error atatribute), 331 tribute), 540
- attribute_map (ask_sdk_model.task.Task attribute), attribute_map (ask_smapi_model.v1.isp.associated_skill_response.Ass 332 attribute), 369
- attribute_map (ask_sdk_model.ui.ask_for_permissionsacousantuccaed_nAskF(ashe_nmissio_nm6delsehtiSpudeate_in_skill_product_requattribute), 306 attribute), 369
- attribute_map (ask_sdk_model.ui.card.Card at attribute_map (ask_smapi_model.v1.isp.custom_product_prompts.Custoribute), 307

 attribute), 370

 attribute = map (ask_sdk_model.ui.card.Card at attribute), 370
- attribute_map (ask_sdk_model.ui.image.Image at- attribute_map (ask_smapi_model.v1.isp.in_skill_product_definition.In tribute), 307 attribute), 379
- attribute_map (ask_sdk_model.ui.link_account_card.LinkAccdountGardap (ask_smapi_model.v1.isp.in_skill_product_definition_reattribute), 307 attribute), 379
- attribute_map (ask_sdk_model.ui.output_speech.Output_speechDoute_map (ask_smapi_model.v1.isp.in_skill_product_summary.In. attribute), 308 attribute), 380
- attribute_map (ask_sdk_model.ui.plain_text_output_spætcdxPlaintTextOutp(uSbestdupi_model.v1.isp.in_skill_product_summary_real attribute), 308 attribute), 381
- attribute_map (ask_sdk_model.ui.reprompt.Reprompt attribute_map (ask_smapi_model.v1.isp.isp_summary_links.IspSummary_links.Is
- attribute_map (ask_sdk_model.ui.simple_card.SimpleCartd_ribute_map (ask_smapi_model.v1.isp.list_in_skill_product.ListInSk attribute), 309 attribute), 382
- attribute_map(ask_sdk_model.ui.ssml_output_speech.SxmlOitputSpeech)(ask_smapi_model.v1.isp.list_in_skill_product_respons attribute), 310 attribute), 382
- attribute_map (ask_sdk_model.ui.standard_card.StandardCardbute_map (ask_smapi_model.v1.isp.localized_privacy_and_comp attribute), 310 attribute), 382
- attribute_map (ask_sdk_model.user.User attribute), attribute_map (ask_smapi_model.v1.isp.localized_publishing_information attribute), 383
- attribute_map (ask_sdk_model_runtime.lwa.access_tokent_meighest.Access_l(aksh_Rmqpistmodel.v1.isp.marketplace_pricing.Marketplace), 36 attribute), 384
- attribute_map(ask_sdk_model_runtime.lwa.access_tokent_mexportse.Anceps(Tiske_nthenpio_model.v1.isp.price_listing.PriceListing

```
attribute), 384
                                                                                                                                                                                                                                                                           attribute), 516
attribute_map (ask_smapi_model.v1.isp.privacy_and_compliance.Privacy_ank_compliancedel.v1.skill.certification.certification_re.
                                     attribute), 385
                                                                                                                                                                                                                                                                           attribute), 404
attribute_map(ask_smapi_model.v1.isp.product_responset.RrioductResponsesk_smapi_model.v1.skill.certification.certification_re.
                                     attribute), 385
                                                                                                                                                                                                                                                                           attribute), 404
attribute_map (ask_smapi_model.v1.isp.publishing_information_Rublishing_disko_smanpionmodel.v1.skill.certification_certification_su
                                     attribute), 386
                                                                                                                                                                                                                                                                           attribute), 405
attribute_map(ask_smapi_model.v1.isp.subscription_iaformationt. Subscriptiskalusforpiationdel.v1.skill.certification.distribution_inf
                                     attribute), 388
                                                                                                                                                                                                                                                                           attribute), 406
attribute_map (ask_smapi_model.v1.isp.summary_marketplacebuprecimes SunaskaryMapiketpladeHrskinkgcertification.estimation_upd
                                     attribute), 389
                                                                                                                                                                                                                                                                           attribute), 406
attribute_map(ask_smapi_model.v1.isp.summary_pricatlistingsSummaryP(xisk_Listingi_model.v1.skill.certification.list_certification
                                     attribute), 389
                                                                                                                                                                                                                                                                           attribute), 407
attribute_map(ask_smapi_model.v1.isp.tax_informationt.Tax_Informationtp(ask_smapi_model.v1.skill.certification.publication_fair
                                                                                                                                                                                                                                                                           attribute), 408
                                     attribute), 389
attribute_map(ask_smapi_model.v1.isp.update_in_skill_tproditost_requestpUpdateMnSkillRoddlw1Rskillesertification.review_tracking
                                      attribute), 390
                                                                                                                                                                                                                                                                           attribute), 408
attribute_map (ask_smapi_model.v1.link.Link at- attribute_map (ask_smapi_model.v1.skill.certification.review_tracking
                                                                                                                                                                                                                                                                           attribute), 409
                                     tribute), 540
attribute_map (ask_smapi_model.v1.links.Links at- attribute_map (ask_smapi_model.v1.skill.create_skill_request.CreateS
                                     tribute), 541
                                                                                                                                                                                                                                                                           attribute), 517
attribute_map (ask_smapi_model.v1.skill.account_linkintgtaccontal_tinkintg(askquestal_ticonnoaltdlinkintgiRequeste_skill_response.Create
                                      attribute), 393
                                                                                                                                                                                                                                                                           attribute), 518
attribute_map(ask_smapi_model.v1.skill.account_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount_linkitgtaccount
                                      attribute), 394
                                                                                                                                                                                                                                                                           attribute), 518
attribute_map (ask_smapi_model.v1.skill.alexa_hosteddtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedt
                                                                                                                                                                                                                                                                           attribute), 410
                                      attribute), 395
attribute_map (ask_smapi_model.v1.skill.alexa_hostedhosteiloskille_mæqdatsk_HontepiSkilbWedtallaskill.evaluations.intent.Intent
                                                                                                                                                                                                                                                                           attribute), 411
                                     attribute), 395
attribute_map (ask_smapi_model.v1.skill.alexa_hosteddtosteid_skille_parpissiskn_shluspedskilldlerhiskillbevaluations.multi_turn.Mult
                                     attribute), 396
                                                                                                                                                                                                                                                                            attribute), 411
attribute_map (ask_smapi_model.v1.skill.alexa_hosteddtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedt
                                     attribute), 397
                                                                                                                                                                                                                                                                           attribute), 412
attribute_map(ask_smapi_model.v1.skill.alexa_hosteddtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedtostedto
                                     attribute), 397
                                                                                                                                                                                                                                                                           attribute), 412
attribute_map(ask_smapi_model.v1.skill.alexa_hosteddtostedtskille_rapasitosk_smadeininubleteduskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhasabdtskillhas
                                     attribute), 398
                                                                                                                                                                                                                                                                           attribute), 413
attribute_map (ask_smapi_model.v1.skill.alexa_hosteddtosteit\(\frac{\particles}{2}\) skill\(\frac{\particles}{2}\) infaptil_ostedd\(\frac{\particles}{2}\) kill \(\frac{\particles}{2}\) infaptil_ostedd\(\frac{\particles}{2}\) kill\(\frac{\particles}{2}\) kill\(\frac{\particles}{2}\) infaptil_ostedd\(\frac{\particles}{2}\) kill\(\frac{\particles}{2}\) infaptil_ostedd\(\frac{\particles}{2}\) kill\(\frac{\particles}{2}\) infaptil_ostedd\(\frac{\particles}{2}\) kill\(\frac{\particles}{2}\) infaptil_ostedd\(\frac{\particles}{2}\) kill\(\frac{\particles}{2}\) kill\(\frac{\particles}{2}\) infaptil_ostedd\(\frac{\particles}{2}\) kill\(\frac{\particles}{2}\) kill\(\frac{\particles}{2}\) infaptil_ostedd\(\frac{\particles}{2}\) kill\(\frac{\particles}{2}\) kill\(\frac{\particles}{2}\) kill\(\frac{\particles}{2}\) infaptil_ostedd\(\frac{\particles}{2}\) kill\(\frac{\particles}{2}\) kill
                                      attribute), 398
                                                                                                                                                                                                                                                                           attribute), 414
attribute_map (ask_smapi_model.v1.skill.beta_test.beta_ttest.BetaTest_map (ask_smapi_model.v1.skill.evaluations.resolutions_per_
                                     attribute), 402
                                                                                                                                                                                                                                                                           attribute), 414
attribute_map(ask_smapi_model.v1.skill.beta_test.testa_badyiFastBodynap(ask_smapi_model.v1.skill.evaluations.resolutions_per_
                                     attribute), 403
                                                                                                                                                                                                                                                                           attribute), 415
attribute_map (ask_smapi_model.v1.skill.beta_test.testatstlist_besters_masp(anske_kinstfis_tensRelsphnkill.evaluations.slot.Slot
                                     attribute), 400
                                                                                                                                                                                                                                                                           attribute), 415
attribute_map(ask_smapi_model.v1.skill.beta_test.testatsttesterstlesternap(ask_smapi_model.v1.skill.evaluations.slot_resolutions.
                                     attribute), 400
                                                                                                                                                                                                                                                                           attribute), 416
attribute), 401
                                                                                                                                                                                                                                                                           attribute), 518
```

attribute), 401

attribute), 516

attribute map (ask smapi model.v1.skill.build detailsaBuildDetails map (ask smapi model.v1.skill.history.confidence.Confidence

attribute_map(ask_smapi_model.v1.skill.build_step.BuildStepbute_map(ask_smapi_model.v1.skill.history.dialog_act.DialogAc

attribute), 519

attribute), 438

attribute), 438

attribute), 439

attribute), 439

attribute), 440

attribute), 440

attribute), 441

attribute_map(ask_smapi_model.v1.skill.history.intentaIntent.bute_map(ask_smapi_model.v1.skill.interaction_model.intent.Intent.bute_map(ask_smapi_model.v1.skill.interaction_model.intent.Intent.bute_map(ask_smapi_model.v1.skill.interaction_model.intent.Intent.bute_map(ask_smapi_model.v1.skill.interaction_model.intent.Intent.bute_map(ask_smapi_model.v1.skill.interaction_model.intent.Intent.bute_map(ask_smapi_model.v1.skill.interaction_model.intent.Intent.bute_map(ask_smapi_model.v1.skill.interaction_model.intent.Intent.bute_map(ask_smapi_model.v1.skill.interaction_model.intent.bute_map(ask_smapi_model.v1.skill.interaction_model.intent.bute_map(ask_smapi_model.v1.skill.interaction_model.intent.bute_map(ask_smapi_model.v1.skill.interaction_model.intent.bute_map(ask_smapi_model.v1.skill.interaction_model.intent.bute_map(ask_smapi_model.v1.skill.interaction_model.intent.bute_map(ask_smapi_model.v1.skill.intent.bute_map(ask_smapi_mo

attribute_map(ask_smapi_model.v1.skill.history.intenta_tequests_lintentRequests_smapi_model.v1.skill.interaction_model.interaction

attribute_map(ask_smapi_model.v1.skill.history.intenta_tequests_theterotRepquests_smapi_model.v1.skill.interaction_model.interaction

attribute_map(ask_smapi_model.v1.skill.history.slot.Slottribute_map(ask_smapi_model.v1.skill.interaction_model.is_greate

attribute_map(ask_smapi_model.v1.skill.image_attributes.bnicgeneributes.dsk_smapi_model.v1.skill.interaction_model.is_greate

attribute_map(ask_smapi_model.v1.skill.image_dimenstoundintonge_Dimensionsk_smapi_model.v1.skill.interaction_model.is_in_dur

attribute_map(ask_smapi_model.v1.skill.image_size.InatageSizeute_map(ask_smapi_model.v1.skill.interaction_model.is_in_set.

attribute), 417

attribute), 418

attribute), 419

attribute), 420

attribute), 422

attribute), 519

attribute), 520

attribute), 520 attribute), 441 attribute_map(ask_smapi_model.v1.skill.import_response_lmiportResponse_ask_smapi_model.v1.skill.interaction_model.is_less_th attribute), 442 attribute), 521 attribute_map(ask_smapi_model.v1.skill.import_respontse_skill.lmport_respontse_skill.import attribute), 442 attribute), 522 attribute_map(ask_smapi_model.v1.skill.instance.Instanceribute_map(ask_smapi_model.v1.skill.interaction_model.is_not_in attribute), 522 attribute), 443 attribute_map (ask_smapi_model.v1.skill.interaction_modelcontailog_contailog_contailog_nodellus_Cskillloig attribute), 423 attribute), 443 attribute_map(ask_smapi_model.v1.skill.interaction_model.datalog_oatabog_skntinva@interlogEhwilt.skill.interaction_model.language attribute), 424 attribute), 444 attribute_map (ask_smapi_model.v1.skill.interaction_model_cottalog attribute), 444 attribute), 424 attribute_map(ask_smapi_model.v1.skill.interaction_model_contailog attribute), 445 attribute), 425 attribute_map (ask_smapi_model.v1.skill.interaction_model_cottalog attribute), 425 attribute), 445 attribute_map (ask_smapi_model.v1.skill.interaction_model.com_model.com_model.com_model.slot_type. attribute), 446 attribute), 426 attribute_map (ask_smapi_model.v1.skill.interaction_model_contailog_definitionsk_demapDefinioididnDaskill.interaction_model.slot_valid attribute), 426 attribute), 447 attribute_map(ask_smapi_model.v1.skill.interaction_model.value_cast_undst_esmeapi_estddesttVlpskilleReterestion_model.value_cast attribute), 427 attribute), 448 attribute_map(ask_smapi_model.v1.skill.interaction_model.com_instalog_lista_contaslog_mapionxedlelsvC.skilbipResponoe_model.value_sup attribute), 428 attribute), 448 attribute_map(ask_smapi_model.v1.skill.interaction_model.varsion_cattribute_map(ask_smapi_model. attribute), 428 attribute), 429 attribute_map(ask_smapi_model.v1.skill.interaction_model.ecoatalog_wadpe(askppshap@anabdgValusKillpiptieraction_model.version.co attribute), 434 attribute), 429 attribute_map(ask_smapi_model.v1.skill.interaction_model.diasbogeDiasbog(ask_smapi_model.v1.skill.interaction_model.version.co attribute), 435 attribute), 430 attribute_map(ask_smapi_model.v1.skill.interaction_naodet.dladoge_interps,dbilaloghternsodel.v1.skill.interaction_model.version.in attribute), 435 attribute), 430 attribute_map(ask_smapi_model.v1.skill.interaction_model.version.li attribute), 436 attribute), 431 attribute_map(ask_smapi_model.v1.skill.interaction_model.v0.skill.interaction_model.v1.skill.interacti attribute), 436 attribute), 431 attribute_map(ask_smapi_model.v1.skill.interaction_model.diadoge_shotoptemsk_DindogiShotdehns1.skill.interaction_model.version.ve attribute), 437 attribute), 432

Index 593

attribute_map(ask_smapi_model.v1.skill.interaction_model.himsizentimage.kokktiom_aputoholkdsElnskijRestektaionManobdel.version.ve

attribute), 432

attribute), 432

attribute), 433

attribute), 523

attribute), 523

```
attribute_map(ask_smapi_model.v1.skill.last_update_requestMvastelpdateRaskuesmapi_model.v1.skill.manifest.localized_flash_bri
                                       attribute), 524
                                                                                                                                                                                                                                                                                          attribute), 480
attribute_map(ask_smapi_model.v1.skill.list_skill_respontse.Listskill_Responsek_smapi_model.v1.skill.manifest.localized_health_ir
                                       attribute), 524
                                                                                                                                                                                                                                                                                          attribute), 480
attribute_map(ask_smapi_model.v1.skill.manifest.alexat_for_ibusinessmapisaskexmfopBuninksksApiskill.manifest.localized_music_in
                                       attribute), 449
                                                                                                                                                                                                                                                                                          attribute), 481
attribute_map (ask_smapi_model.v1.skill.manifest.alexat_for_ibusinessmirpe(xfstcesAlapii_finoBlukinkeskilthemfanifest.manifest_gadget_st
                                        attribute), 450
                                                                                                                                                                                                                                                                                          attribute), 481
attribute_map(ask_smapi_model.v1.skill.manifest.alexattpresiontationmapl(inskerfacepAlexacPelesienskillcmAplfestenfaceic_alias.Musica
                                                                                                                                                                                                                                                                                          attribute), 482
                                       attribute), 450
attribute_map(ask_smapi_model.v1.skill.manifest.audio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfacesAudio_tmtenfac
                                       attribute), 450
                                                                                                                                                                                                                                                                                          attribute), 482
attribute_map(ask_smapi_model.v1.skill.manifest.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.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.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.connection.connection.connection.connection.connection.connection.connection.connection.connection.connection.connect
                                        attribute), 451
                                                                                                                                                                                                                                                                                          attribute), 483
attribute_map(ask_smapi_model.v1.skill.manifest.connection.syptosload & (onstections) Paylanded.v1.skill.manifest.music_content_type
                                        attribute), 451
                                                                                                                                                                                                                                                                                          attribute), 484
attribute_map (ask_smapi_model.v1.skill.manifest.criticalt_data_handling.CashiopiaHaddling.skill.manifest.music_feature.Musi
                                                                                                                                                                                                                                                                                          attribute), 484
                                        attribute), 452
attribute_map(ask_smapi_model.v1.skill.manifest.custenut_apits.Customatp(ask_smapi_model.v1.skill.manifest.music_interfaces.M
                                       attribute), 452
                                                                                                                                                                                                                                                                                          attribute), 484
attribute_map(ask_smapi_model.v1.skill.manifest.custatut_commections.cGustaskn_Groupi_frombel.v1.skill.manifest.music_request.Mus
                                       attribute), 453
                                                                                                                                                                                                                                                                                          attribute), 485
attribute_map(ask_smapi_model.v1.skill.manifest.custerut_initerface_Gusto(nalsktestfaacpi_model.v1.skill.manifest.music_wordmark.M
                                       attribute), 453
                                                                                                                                                                                                                                                                                          attribute), 485
attribute_map (ask_smapi_model.v1.skill.manifest.disptoxy_iriterface_Displayshtesfaqei_model.v1.skill.manifest.permission_items.F
                                       attribute), 454
                                                                                                                                                                                                                                                                                          attribute), 485
attribute_map(ask_smapi_model.v1.skill.manifest.evertt_transe)Etrent_Nampe(ask_smapi_model.v1.skill.manifest.region.Region
                                       attribute), 462
                                                                                                                                                                                                                                                                                         attribute), 487
attribute_map (ask_smapi_model.v1.skill.manifest.evertt_trublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartien_sstaven(ttRublivartie
                                        attribute), 471
                                                                                                                                                                                                                                                                                          attribute), 487
attribute_map(ask_smapi_model.v1.skill.manifest.flash_tbriefing_tapisrElashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrelashabkiefing_tapisrel
                                       attribute), 472
                                                                                                                                                                                                                                                                                         attribute), 489
attribute_map(ask_smapi_model.v1.skill.manifest.gadeattavitorotler_interfask_GmdeetGroutebllerskildenfuneifest.skill_manifest_apis
                                       attribute), 473
                                                                                                                                                                                                                                                                                          attribute), 489
attribute_map (ask_smapi_model.v1.skill.manifest.gamætenginativterfægæ.(askn_shmginenhotberfodeskill.manifest.skill_manifest_cust
                                       attribute), 474
                                                                                                                                                                                                                                                                                          attribute), 490
attribute_map(ask_smapi_model.v1.skill.manifest.health_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks\thealth_taliaks
                                       attribute), 474
                                                                                                                                                                                                                                                                                          attribute), 490
attribute_map(ask_smapi_model.v1.skill.manifest.health_tapisbHtatlphApis(ask_smapi_model.v1.skill.manifest.skill_manifest_enve
                                        attribute), 475
                                                                                                                                                                                                                                                                                          attribute), 491
attribute_map(ask_smapi_model.v1.skill.manifest.health_timterfaceHwalth(askrfsmeapi_model.v1.skill.manifest.skill_manifest_ever
                                       attribute), 476
                                                                                                                                                                                                                                                                                          attribute), 492
attribute_map(ask_smapi_model.v1.skill.manifest.healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_trequest.Healt/t_t
                                       attribute), 476
                                                                                                                                                                                                                                                                                          attribute), 492
attribute map (ask smapi model.v1.skill.manifest.house tholidolisteHouse Holdlistenapi model.v1.skill.manifest.skill manifest loca
```

attribute), 476

attribute), 477

attribute), 478

attribute), 478

attribute), 479

attribute_map (ask_smapi_model.v1.skill.interaction_model.viversion_version_statentherisiondel.v1.skill.manifest.interface.Interface

attribute_map(ask_smapi_model.v1.skill.interaction_model.version_version_skepmalerishoodedms.skill.manifest.lambda_endpoint.L

attribute_map(ask_smapi_model.v1.skill.interface_defartitioni_Interface_defartitioni_Interface_mapi_model.v1.skill.manifest.lambda_region.Lan

attribute_map(ask_smapi_model.v1.skill.interface_intertiluterfacedntentp(ask_smapi_model.v1.skill.manifest.localized_flash_bri

```
attribute), 493
                                                                                                                                     attribute), 510
attribute_map (ask_smapi_model.v1.skill.manifest.skillantanifest.yrivaev_(ask_somplianodelkillMailifiintRhiviansAsidalbatipolianapi
                  attribute), 494
                                                                                                                                     attribute), 510
attribute_map (ask_smapi_model.v1.skill.manifest.skillantanifest.tyubhishingshifonapitiono8klllMskilfestAnubhishingshifonlationo1_api
                   attribute), 496
                                                                                                                                      attribute), 511
attribute_map(ask_smapi_model.v1.skill.manifest.sma<u>wt_hombyuppis.Smapr(HkkmwAppi</u>_model.v1.skill.skill_interaction_model.Skil
                  attribute), 496
                                                                                                                                     attribute), 528
attribute_map(ask_smapi_model.v1.skill.manifest.up_e/tauneloiteres_t/b/p6/haskne/lihapiis_model.v1.skill.skill_interaction_model_state
                   attribute), 497
                                                                                                                                     attribute), 528
attribute_map (ask_smapi_model.v1.skill.manifest.vide@tapis.lb/ide@Apisp (ask_smapi_model.v1.skill.skill_status.SkillStatus
                  attribute), 498
                                                                                                                                     attribute), 529
attribute_map(ask_smapi_model.v1.skill.manifest.videatapistlocale.Nialpo(Askiskmaqie model.v1.skill.skill_summary.SkillSummar
                  attribute), 499
                                                                                                                                     attribute), 530
attribute_map(ask_smapi_model.v1.skill.manifest.videattppi_interfaceavideask_prhaperfacedel.v1.skill.ssl_certificate_payload.SSL0
                   attribute), 499
                                                                                                                                      attribute), 531
attribute_map(ask_smapi_model.v1.skill.manifest.videattatakogtiafanviplaoskatsukogtinfmodel.v1.skill.standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standardized_error.Standar
                   attribute), 499
                                                                                                                                     attribute), 531
attribute_map(ask_smapi_model.v1.skill.manifest.videattainibytinfon\did(asko_usmtaplinfonodel.v1.skill.submit_skill_for_certificatio
                                                                                                                                     attribute), 533
                   attribute), 500
attribute_map(ask_smapi_model.v1.skill.manifest.videat_tegionv%ideoRegi(ansk_smapi_model.v1.skill.update_skill_with_package_
                  attribute), 500
                                                                                                                                     attribute), 533
attribute_map (ask_smapi_model.v1.skill.manifest.vieveportr_sipecrificationp (issk_psmtSpic_gifudeton).skill.upload_response.UploadRes
                   attribute), 501
                                                                                                                                     attribute), 534
attribute_map (ask_smapi_model.v1.skill.metrics.get_nactric_idate_eresporps.casketsthetpic_DouteResponsite validation_details.Validation
                   attribute), 502
                                                                                                                                     attribute), 537
attribute_map (ask_smapi_model.v1.skill.private.list_pxivate_idistributionp_(assko_untspie_spoolsek.klistRHi.wauledDistrib_uetidap&iocoValtisRata
                                                                                                                                      attribute), 537
                   attribute), 505
attribute_map (ask_smapi_model.v1.skill.private.private_tdistribution_macoodusk_Brivate_DistributioskAlcoonlidation_feature.Validation
                                                                                                                                     attribute), 537
                  attribute), 505
attribute_map (ask_smapi_model.v1.skill.regional_ssl_acettificotetRegional[88tk_Centificiateodel.v1.skill.validations.response_validations
                   attribute), 525
                                                                                                                                      attribute), 512
attribute_map(ask_smapi_model.v1.skill.resource_import_statustRe_source(hnkosn8api_model.v1.skill.validations.validations_api_
                  attribute), 526
                                                                                                                                     attribute), 513
attribute_map(ask_smapi_model.v1.skill.resource_status:ResourceStatusp(ask_smapi_model.v1.skill.validations.validations_api_
                  attribute), 527
                                                                                                                                     attribute), 514
attribute_map(ask_smapi_model.v1.skill.simulations.adexar_extentionminfo.aslexsrEapc_wiodblfol.skill.validations.validations_api_
                  attribute), 506
                                                                                                                                     attribute), 514
attribute_map(ask_smapi_model.v1.skill.simulations.adaxariesporse_rAdaxulkedsponsei_model.v1.skill.withdraw_request.Withdraw
                   attribute), 506
                                                                                                                                     attribute), 538
attribute_map(ask_smapi_model.v1.skill.simulations.adaxaridsportse_maxpuastkAkexaridsportse_maxpuastkAkexaridsportse_maxpuastkAkexaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse_maxaridsportse
                  attribute), 507
                                                                                                                                     attribute), 539
attribute_map(ask_smapi_model.v1.skill.simulations.device_Device_map(ask_smapi_model.v1.vendor_management.vendors.Ven
                  attribute), 507
                                                                                                                                     attribute), 539
attribute_map(ask_smapi_model.v1.skill.simulations.input.hiputtesManager
                                                                                                                                                                                          (class
                                                                                                                                                                                                                             in
                                                                                                                                     ask_sdk_core.attributes_manager), 26
                  attribute), 507
attribute_map(ask_smapi_model.v1.skill.simulations.iAxtoccation_treepusxtlavgerationRespusxtn, 28
                  attribute), 508
                                                                                                                  AU (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
attribute_map(ask_smapi_model.v1.skill.simulations.invocationatesiponts), BillocationResponse
                   attribute), 508
                                                                                                                  AU (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution@
attribute_map(ask_smapi_model.v1.skill.simulations.metrics.Metricibute), 455
```

attribute_map(ask_smapi_model.v1.skill.simulations.session.Sessionibute), 472

attribute map (ask smapi model.v1.skill.simulations.simulationatesiblit&im4dationResult

attribute), 509

attribute), 509

AUDIO (ask_smapi_model.v1.skill.manifest.flash_briefing_content_type.Flash_briefing_co

AUDIO_AND_VIDEO (ask_smapi_model.v1.skill.manifest.flash_briefing_c

```
AUDIO_ITEM_PLAYBACK_FAILED
                                                             ask_sdk_model.interfaces.amazonpay.model.response.authorizati
        (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType
                                                    AuthorizationDetails
                                                                                       (class
        attribute), 465
AUDIO_ITEM_PLAYBACK_FINISHED
                                                             ask\_sdk\_model.interfaces.amazonpay.model.v1.authorization\_denotes
        (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType
        attribute), 465
                                                    AuthorizationStatus
                                                                                       (class
AUDIO_ITEM_PLAYBACK_STARTED
                                                             ask\_sdk\_model. interfaces. a mazon pay. model. response. authorizati
        (ask_smapi_model.v1.skill.manifest.event_name_type.EventNomeType
        attribute), 465
                                                    AuthorizationStatus
                                                                                       (class
                                                                                                     in
AUDIO_ITEM_PLAYBACK_STOPPED
                                                             ask_sdk_model.interfaces.amazonpay.model.v1.authorization_sta
        (ask_smapi_model.v1.skill.manifest.event_name_type.EventNetoneType
                                                    attribute), 465
                                                             attribute), 134
AudioInterface
                               (class
                                                in
        ask\_smapi\_model.v1.skill.manifest.audio\_interface); thorize (ask\_sdk\_model.interfaces.amazonpay.model.v1.payment\_actions)
                                                             attribute), 151
AudioItem
                            (class
                                                 in AuthorizeAndCapture
        ask_sdk_model.interfaces.audioplayer.audio_item),
                                                             (ask_sdk_model.interfaces.amazonpay.model.request.payment_ac
                                                             attribute), 134
                                (class
                                                in AuthorizeAndCapture
AudioItemMetadata
        ask_sdk_model.interfaces.audioplayer.audio_item_metadata@sk_sdk_model.interfaces.amazonpay.model.v1.payment_action.
                                                             attribute), 151
AudioPlayer_PlaybackFailed
                                                    AuthorizeAttributes
                                                                                       (class
        (ask_smapi_model.v1.skill.manifest.event_name_type.EventNxhnsdlypmodel.interfaces.amazonpay.model.request.authorize_at
        attribute), 465
                                                    AuthorizeAttributes
AudioPlayer_PlaybackFinished
                                                                                       (class
        (ask_smapi_model.v1.skill.manifest.event_name_type.EventNshnsdlypmodel.interfaces.amazonpay.model.v1.authorize_attribu
        attribute), 465
AudioPlayer_PlaybackNearlyFinished
                                                            (ask\_sdk\_model.interfaces.viewport.mode.Mode
                                                    AUTO
        (ask_smapi_model.v1.skill.manifest.event_name_type.EventManileTyp)e 229
                                                    AUTO_ENTITLED (ask_sdk_model.services.monetization.entitlement_reas
        attribute), 465
AudioPlayer_PlaybackStarted
                                                             attribute), 266
        (ask_smapi_model.v1.skill.manifest.event_name_typetEventNameType\) (ask_smapi_model.v1.skill.publication_method.Publ
                                                             attribute), 525
        attribute), 465
AudioPlayer_PlaybackStopped
                                                    AutomotiveState
                                                                                    (class
        (ask_smapi_model.v1.skill.manifest.event_name_type.EventNshnsdlypmodel.interfaces.automotive.automotive_state),
        attribute), 465
                                                             172
AudioPlayerInterface
                                   (class
                                                 in AutoPageCommand
                                                                                    (class
        ask_sdk_model.interfaces.audioplayer.audio_player_interfaask_sdk_model.interfaces.alexa.presentation.apl.auto_page_com
        163
                                                in AutoPageCommand
AudioPlayerState
                                (class
                                                                                    (class
        ask_sdk_model.interfaces.audioplayer.audio_player_state), ask_sdk_model.interfaces.alexa.presentation.aplt.auto_page_com
        164
                                                in AVAILABLE (ask_smapi_model.v1.catalog.upload.file_upload_status.File)
AudioTrack
                            (class
        ask_sdk_model.interfaces.alexa.presentation.apl.audio_trackitribute), 363
                                                    avs_distributed_audio
AUTH_CODE (ask_smapi_model.v1.skill.account_linking.account_linkinsk_tsypapi_coodaLinkiskilTypenifest.permission_name.Permission
        attribute), 394
                                                             attribute), 487
AuthenticationConfiguration
                                                 in AW (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                                       (class
        ask\_sdk\_model.services.authentication\_configuration),
                                                             attribute), 371
                                                    AW (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
AuthenticationConfiguration
                                                             attribute), 455
                                       (class
                                                in
```

(class

AuthorizationDetails

ask_sdk_model_runtime.authentication_configuraHids(), KMS (ask_smapi_model.v1.skill.manifest.data_protection_provider.Do

attribute), 453

in AX (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries

```
attribute), 371
                                                                                                                                                                          BG (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
AX (ask smapi model.v1.skill.manifest.distribution countries.Distributioribuoe)nt4Fes
                                                                                                                                                                          BH (ask smapi model.v1.isp.distribution countries.DistributionCountries
                           attribute), 455
AZ (ask_smapi_model.v1.isp.distribution_countries.DistributionCountriesibute), 371
                            attribute), 371
                                                                                                                                                                          BH (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
AZ (ask smapi model.v1.skill.manifest.distribution countries.Distributioribuoe)nt4Fes
                            attribute), 456
                                                                                                                                                                          BI (ask smapi model.v1.isp.distribution countries.DistributionCountries
                                                                                                                                                                                                       attribute), 371
В
                                                                                                                                                                          BI (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
BA (ask_smapi_model.v1.isp.distribution_countries.DistributionCounf#tribute), 456
                                                                                                                                                                          BillingAgreementAttributes
                            attribute), 371
\verb|BA| (ask\_smapi\_model.v1.skill.manifest.distribution\_countries.Distribution\_the large but the lar
                           attribute), 456
                                                                                                                                                              in BillingAgreementAttributes
                                                                                                                                                                                                                                                                                                         (class
BackButtonBehavior
                                                                                                             (class
                            ask_sdk_model.interfaces.display.back_button_behavior), ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreemen
                            190
                                                                                                                                                                      BillingAgreementDetails
                                                                                                                                                                                                                                                                                                  (class
BadRequestError
                                                                                                      (class
                                                                                                                                                                                                       ask_sdk_model.interfaces.amazonpay.model.response.billing_agr
                            ask_smapi_model.v1.bad_request_error),
                            539
                                                                                                                                                              in BillingAgreementDetails
                                                                                                                                                                                                                                                                                                   (class
BaseAmazonPayEntity
                                                                                                              (class
                           ask_sdk_model.interfaces.amazonpay.model.request.base_anskzsdkpmodel.interfaces.amazonpay.model.v1.billing_agreemen
                                                                                                                                                                      BillingAgreementStatus
                                                                                                                                                                                                                                                                                                (class
                                                                                                                                                                                                                                                                                                                                         in
BaseEntity
                                                                                            (class
                           ask\_sdk\_model. interfaces. connections. entities. base\_entity), ask\_sdk\_model. interfaces. amazon pay. model. v1. billing\_agreement particles and particles are also below the property of t
                                                                                                                                                                       BillingAgreementType
                                                                                                                                                                                                                                                                                            (class
BaseRequest
                                                                                              (class
                           ask\_sdk\_model. interfaces. connections. requests. base\_requests, k\_sdk\_model. interfaces. amazon pay. model. request. billing\_agree and the property of the 
                            175
                                                                                                                                                                        BillingAgreementType
                                                                                                                                                                                                                                                                                            (class
BaseServiceClient
                                                                                                          (class
                                                                                                                                                                                                       ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreemen
                            ask_sdk_model.services.base_service_client),
                            300
                                                                                                                                                                         BJ (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
BaseServiceClient
                                                                                                           (class
                                                                                                                                                                                                       attribute), 371
                            ask_sdk_model_runtime.base_service_client),
                                                                                                                                                                          BJ (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
\verb|BB| (ask\_smapi\_model.v1. isp. distribution\_countries. DistributionCounfites; bute), 456
                                                                                                                                                                          BL(ask\_smapi\_model.v1.isp.distribution\_countries.DistributionCountries
                            attribute), 371
BB (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributionbutiles
                                                                                                                                                                          BL (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
                            attribute), 456
BD (ask_smapi_model.v1.isp.distribution_countries.DistributionCounf#te;bute), 456
                                                                                                                                                                          block (ask_sdk_model.interfaces.alexa.presentation.apl.highlight_mode.F
                            attribute), 371
BD (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributionhetiles
                                                                                                                                                                          BM (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                            attribute), 456
BE (ask_smapi_model.v1.isp.distribution_countries.DistributionCoungtte;bute), 371
                                                                                                                                                                          \verb|BM| (ask\_smapi\_model.v1.skill.manifest.distribution\_countries.Distribution@| \\
                            attribute), 371
BE (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributionbutint
                                                                                                                                                                          BN (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                            attribute), 456
BetaTest (class in ask_smapi_model.v1.skill.beta_test.beta_test), attribute), 371
                                                                                                                                                                          BN (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
{\tt BF} \ (ask\_smapi\_model.v1. isp. distribution\_countries. DistributionCounfites bute), 456
                                                                                                                                                                          \verb"BO" (ask\_smapi\_model.v1.isp.distribution\_countries.DistributionCountries
                           attribute), 371
BF (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributionbutiles
                                                                                                                                                                          \verb|BO| (ask\_smapi\_model.v1.skill.manifest.distribution\_countries.Distribution | Countries.Distribution | Countries.Distr
                            attribute), 456
{\tt BG} \ (ask\_smapi\_model.v1. isp. distribution\_countries. DistributionCounfites bute), 456
                                                                                                                                                                          BodyTemplate1
                           attribute), 371
                                                                                                                                                                                                                                                                             (class
                                                                                                                                                                                                                                                                                                                                         in
```

```
ask_sdk_model.interfaces.display.body_template1\RY (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution
                                              191
                                                                                                                                                                                                                                                                                                                               attribute), 456
BodyTemplate2
                                                                                                                                                                                                                                                              in BZ (ask smapi model.v1.isp.distribution countries.DistributionCountries
                                              ask_sdk_model.interfaces.display.body_template2),
                                                                                                                                                                                                                                                                                                                               attribute), 372
                                                                                                                                                                                                                                                                                 BZ (ask smapi model.v1.skill.manifest.distribution countries.Distribution
BodyTemplate3
                                                                                                                                                                                                                                                                                                                               attribute), 456
                                                                                                                                                             (class
                                                                                                                                                                                                                                                              in
                                            ask sdk model.interfaces.display.body template3)
BodyTemplate6
                                                                                                                                                             (class
                                                                                                                                                                                                                                                              in
                                                                                                                                                                                                                                                                                CA (ask smapi model.v1.isp.distribution countries.DistributionCountries
                                             ask_sdk_model.interfaces.display.body_template6),
                                                                                                                                                                                                                                                                                                                               attribute), 372
                                                                                                                                                                                                                                                                                  CA (ask smapi model.v1.skill.manifest.distribution countries.Distribution
BodyTemplate7
                                                                                                                                                             (class
                                                                                                                                                                                                                                                                                                                               attribute), 456
                                            ask\_sdk\_model.interfaces.display.body\_template7 an handle() (ask\_sdk\_core.dispatch\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_components.exception\_compon
                                                                                                                                                                                                                                                                                                                                method), 17
boolean (ask_smapi_model.v1.skill.validation_data_types_Validation_Data_Typesk_sdk_core.dispatch_components.request_component.
                                             attribute), 534
                                                                                                                                                                                                                                                                                                                                method), 16
\verb|BR| (ask\_smapi\_model.v1. isp. distribution\_countries. Distribution\_Countri
                                             attribute), 371
                                                                                                                                                                                                                                                                                                                               method), 5
BR (ask_smapi_model.v1.skill.manifest.distribution_countries_Pistribution_Gountsiesdk_runtime.dispatch_components.request_components
                                             attribute), 456
                                                                                                                                                                                                                                                                                                                               method), 3
\verb|BS| (ask\_smapi\_model.v1. isp. distribution\_countries. Distribution\_feask\_sdk\_model. interfaces. amazon pay. model.v1. billing\_agreements and the property of the property 
                                             attribute), 371
                                                                                                                                                                                                                                                                                                                                attribute), 149
BS (ask_smapi_model.v1.skill.manifest.distribution_countries_Distribution_Gsu_ntriesi_model.v1.catalog.upload.ingestion_status.Ingesti
                                             attribute), 456
                                                                                                                                                                                                                                                                                                                                attribute), 364
\verb|BT| (ask\_smapi\_model.v1.isp.distribution\_countries.Distribution\_fixed in a status. Countries ask\_smapi\_model.v1.skill.certification.certification\_status. Countries ask\_smapi\_model.v1.skill.certification\_status. Countries 
                                            attribute), 372
                                                                                                                                                                                                                                                                                                                                attribute), 405
\verb|BT| (ask\_smapi\_model.v1.skill.manifest.distribution\_countries_{\verb|a|} \verb|Pistribution\_fermanifest.distribution\_countries_{\verb|a|} \verb|Pistribution\_fermanifest.distribution\_countries_{\verb|a|} \verb|Pistribution\_fermanifest.distribution\_countries_{\verb|a|} \verb|Pistribution\_fermanifest.distribution\_countries_{\verb|a|} \verb|Pistribution\_fermanifest.distribution\_countries_{\verb|a|} \verb|Pistribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distribution\_fermanifest.distributio
                                                                                                                                                                                                                                                                                                                                                                                                                                                         (class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              in
                                             attribute), 456
                                                                                                                                                                                                                                                                                                                               ask sdk model.canfulfill.can fulfill intent), 65
BUFFER_UNDERRUN (ask_sdk_model.interfaces.audioplayersplayerfactivity, PlayerActivity t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (class
                                            attribute), 171
                                                                                                                                                                                                                                                                                                                                ask_sdk_model.canfulfill.can_fulfill_intent_request),
BuildDetails
                                                                                                                                                          (class
                                                                                                                                                                                                                                                              in
                                                                                                                                                                                                                                                                                                                                66
                                             ask_smapi_model.v1.skill.build_details),
                                                                                                                                                                                                                                                                                 CanFulfillIntentValues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              in
                                              516
                                                                                                                                                                                                                                                                                                                                ask_sdk_model.canfulfill.can_fulfill_intent_values),
BuildStep
                                                                                                                                                (class
                                                                                                                                                                                                                                                             in
                                             ask_smapi_model.v1.skill.build_step), 516
                                                                                                                                                                                                                                                                                 CanFulfillSlot
                                                                                                                                                                                                                                                                                                                                                                                                                                                  (class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              in
BuildStepName
                                                                                                                                                             (class
                                                                                                                                                                                                                                                            in
                                                                                                                                                                                                                                                                                                                               ask_sdk_model.canfulfill.can_fulfill_slot),
                                            ask smapi model.v1.skill.build step name),
                                                                                                                                                                                                                                                                                                                                67
                                                                                                                                                                                                                                                                                 CanFulfillSlotValues
BUSINESS (ask_smapi_model.v1.skill.manifest.flash_briefing_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.filmsh_genre.films
                                             attribute), 472
(class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              in
                                              attribute), 243
                                                                                                                                                                                                                                                                                                                               ask_sdk_model.canfulfill.can_understand_slot_values),
buttonUp (ask_sdk_model.services.gadget_controller.trigger_event_gager_EventType
                                             attribute), 243
                                                                                                                                                                                                                                                                                 CaptionData
                                                                                                                                                                                                                                                                                                                                                                                                                                         (class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              in
\verb|BV| (ask\_smapi\_model.v1. isp. distribution\_countries. DistributionCountries\_sdk\_model. interfaces. audioplayer. caption\_data), \\
                                             attribute), 372
                                                                                                                                                                                                                                                                                                                                164
BV (ask_smapi_model.v1.skill.manifest.distribution_countries_Distribution_Countries
                                            attribute), 456
                                                                                                                                                                                                                                                                                                                               ask_sdk_model.interfaces.audioplayer.caption_type),
BW (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                                             attribute), 372
                                                                                                                                                                                                                                                                                 Card (class in ask_sdk_model.ui.card), 306
BW (ask_smapi_model.v1.skill.manifest.distribution_countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistribution_Countries_Pistrib
                                            attribute), 456
                                                                                                                                                                                                                                                                                                                               (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
BY (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries), 465
                                            attribute), 372
                                                                                                                                                                                                                                                                                 CardRenderer_DisplayContentStarted
```

```
(ask_smapi_model.v1.skill.manifest.event_name_type.Event\(\mathbb{N}\)(arideiTyp)\(\epsilon\) 296
              attribute), 465
                                                                                        center (ask_sdk_model.interfaces.alexa.presentation.apl.align.Align
CardRenderer_ReadContentFinished
                                                                                                       attribute), 80
               (ask_smapi_model.v1.skill.manifest.event_name_tQperEventManne_TQperAIN
                                                                                                                                              (in
                                                                                                                                                                   module
              attribute), 466
                                                                                                       ask_sdk_webservice_support.verifier_constants),
CardRenderer ReadContentStarted
              (ask smapi model.v1.skill.manifest.event name toperfivedity and type. HOSTNAME
                                                                                                                                                     (in
                                                                                                                                                                   module
              attribute), 466
                                                                                                        ask_sdk_webservice_support.verifier_constants),
CatalogDefinitionOutput
                                                              (class
                                                                                  in
                                                                                                        43
              ask_smapi_model.v1.skill.interaction_model.catal@E.Ratalase_definitean_Domati),
                                                                                                                                                 (in
                                                                                                       ask_sdk_webservice_support.verifier_constants),
                                                   (class
CatalogEntity
              ask_smapi_model.v1.skill.interaction_model.catalog_RatedbyA&NitVRL_PROTOCOL
                                                                                                                                                     (in
                                                                                                                                                                   module
              424
                                                                                                        ask_sdk_webservice_support.verifier_constants),
                                                  (class
                                                                                  in
CatalogInput
              ask_smapi_model.v1.skill.interaction_model.catalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Ratalog.Rat
                                                                                                                                                                   module
               424
                                                                                                       ask_sdk_webservice_support.verifier_constants),
CatalogItem
                                                 (class
              ask_smapi_model.v1.skill.interaction_model.catalの異思症症的異性を表现的 (ask_smapi_model.v1.isp.status.Status
                                                                                                        attribute), 387
CatalogResponse
                                                     (class
                                                                                  in Certification(ask_smapi_model.v1.skill.history.publication_status.Pa
              ask_smapi_model.v1.skill.interaction_model.catalog.catalogutneitpate\( \) \( \) 22
              425
                                                                                        CertificationResponse
                                                                                                                                                     (class
                                                                                                                                                                           in
CatalogStatus
                                                   (class
                                                                                  in
                                                                                                       ask smapi model.v1.skill.certification.certification response),
              ask\_smapi\_model.v1.skill.interaction\_model.catalog.catalog \underline{40} \\ atus),
                                                                                        CertificationResult
                                                                                                                                                   (class
CatalogStatusType
                                                       (class
                                                                                  in
                                                                                                       ask_smapi_model.v1.skill.certification.certification_result),
              ask\_smapi\_model.v1.skill.interaction\_model.catalog.catalog \underline{O} + atus\_type),
                                                                                        CertificationStatus
                                                                                                                                                   (class
                                                                                                                                                                           in
                                                                                                       ask_smapi_model.v1.skill.certification.certification_status),
CatalogUpdate
                                                   (class
                                                                                  in
              ask_smapi_model.v1.skill.interaction_model.version.catalog10tpdate),
              429
                                                                                        CertificationSummary
                                                                                                                                                   (class
                                                                                                                                                                           in
                                                                                                       ask_smapi_model.v1.skill.certification.certification_summary),
CatalogUploadBase
                                                       (class
                                                                                  in
              ask_smapi_model.v1.catalog.upload.catalog_upload_base),405
               362
                                                                                        certified(ask_smapi_model.v1.stage_v2_type.StageV2Type
CatalogValues
                                                                                                       attribute), 541
                                                   (class
                                                                                  in
              ask\_smapi\_model.v1.skill.interaction\_model.versi@E.(athlognaplum)del.v1.isp.distribution\_countries.DistributionCountries
                                                                                                       attribute), 372
CatalogValueSupplier
                                                           (class
                                                                                  in CF (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
              ask_smapi_model.v1.skill.interaction_model.catalog_value_asturiblite),,456
                                                                                        CG (ask smapi model.v1.isp.distribution countries.DistributionCountries
CatalogVersionData
                                                        (class
                                                                                                       attribute), 372
                                                                                  in
              ask smapi model.v1.skill.interaction model.versi@& (askilognospisionadelard)skill.manifest.distribution countries.Distribution
                                                                                                       attribute), 456
Cause (class in ask_sdk_model.cause), 311
                                                                                        \verb|CH|| (ask\_smapi\_model.v1.isp.distribution\_countries.DistributionCountries||
CC (ask_smapi_model.v1.isp.distribution_countries.DistributionCountriesibute), 372
              attribute), 372
                                                                                        CH (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
CC (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributionibuse)nt#tes
              attribute), 456
                                                                                        CHARACTER_ENCODING
                                                                                                                                                                   module
                                                                                                                                                (in
CD (ask_smapi_model.v1.isp.distribution_countries.DistributionCountriks_sdk_webservice_support.verifier_constants),
              attribute), 372
CD (ask smapi model.v1.skill.manifest.distribution countriest.Distribution Ecountries
                                                                                                                                              (class
                                                                                                       ask sdk model.interfaces.viewport.aplt.character format),
              attribute), 456
CELSIUS (ask sdk model.services.ups.temperature unit.Temperature\mathbb{D}\text{\textit{i}}it
```

```
ChargeAmazonPay
                                                                    (class
                                                                                                                                     attribute), 143
                  ask_sdk_model.interfaces.amazonpay.v1.charge_@nage=@nage=interfaces.amazonpay.model.v1.billing_agreemen
                                                                                                                                     attribute), 149
{\tt ChargeAmazonPayRequest}
                                                                                                         in Closed(ask_sdk_model.interfaces.amazonpay.model.v1.state.State
                                                                              (class
                  ask_sdk_model.interfaces.amazonpay.request.charge_amazanttnibuytenequest),
                                                                                                                  \texttt{CM} (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
ChargeAmazonPayResult
                                                                                                                                     attribute), 372
                                                                             (class
                                                                                                         in
                  ask_sdk_model.interfaces.amazonpay.response.ch@tgeastmanupipmodekwll.)skill.manifest.distribution_countries.Distribution
                   157
                                                                                                                                     attribute), 456
                                                                                                         in \quad CN \ (ask\_smapi\_model.v1.isp.distribution\_countries.DistributionCountries
ChargeAmazonPayResult
                                                                            (class
                  ask_sdk_model.interfaces.amazonpay.v1.charge_amazon_payt_mesute),, 372
                                                                                                                  CN (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
checked (ask_sdk_model.interfaces.alexa.presentation.apl.componeattribute), of the checked (ask_sdk_model.interfaces.alexa.presentation.apl.componeattribute).
                                                                                                                  CO(ask\_smapi\_model.v1.isp.distribution\_countries.DistributionCountries
                  attribute), 87
CI (ask_smapi_model.v1.isp.distribution_countries.DistributionCountriesbute), 372
                  attribute), 372
                                                                                                                  {\tt CO}\ (ask\_smapi\_model.v1.skill.manifest.distribution\_countries.Distribution {\tt CO}\ (ask\_smapi\_model.v1.skill.manifest.distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distr
CI (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributioribution)thtes
                                                                                                                 Codecs (class in ask_sdk_model.interfaces.viewport.video.codecs),
                  attribute), 456
CK (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                  attribute), 372
                                                                                                                 Command (class in ask_sdk_model.interfaces.alexa.presentation.apl.comma
CK (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
                                                                                                                  Command (class in ask_sdk_model.interfaces.alexa.presentation.aplt.comm
                  attribute), 456
CL (ask_smapi_model.v1.isp.distribution_countries.DistributionCountrles
                                                                                                                  COMPLETE (ask_smapi_model.v1.isp.status.Status at-
                  attribute), 372
CL (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution@publies
                  attribute), 456
                                                                                                                  COMPLETED (ask_sdk_model.dialog_state.DialogState
CLEAR (ask_sdk_model.er.dynamic.update_behavior.UpdateBehaviorattribute), 314
                                                                                                                  {\tt Completed} (ask\_sdk\_model.interfaces.amazonpay.model.v1.state.State
                  attribute), 72
CLEAR_ALL (ask_sdk_model.interfaces.audioplayer.clear_behavior.@ltevibBehaviof4
                  attribute), 165
                                                                                                                  completed (ask_sdk_model.services.list_management.list_item_state.Lis
CLEAR_ENQUEUED (ask_sdk_model.interfaces.audioplayer.clear_behttvibn@lg@rBehavior
                  attribute), 165
                                                                                                                  COMPLETED (ask_sdk_model.services.reminder_management.status.Status
ClearBehavior
                                                                                                                                     attribute), 291
                  ask_sdk_model.interfaces.audioplayer.clear_beha@iompleteTaskDirective
                                                                                                                                                                                              (class
                                                                                                                                     ask_sdk_model.interfaces.tasks.complete_task_directive),
ClearFocusCommand
                                                                       (class
                  ask_sdk_model.interfaces.alexa.presentation.apl.cleampfooren_tomtaintd),
                                                                                                                                                                                      (class
                                                                                                                                     ask\_sdk\_model.interfaces.alexa.presentation.apl.component\_entime in the component in the 
ClearQueueDirective
                                                                          (class
                                                                                                         in
                  (class
                                                                                                                                     ask_sdk_model.interfaces.alexa.presentation.apl.component_state
client() (ask_smapi_sdk.smapi_builder.CustomSmapiClientBuilder?
                  method), 54
                                                                                                                  ComponentVisibleOnScreen
                                                                                                                                                                                                   (class
                                                                                                                                                                                                                           in
client() (ask_smapi_sdk.smapi_builder.SmapiClientBuilder
                                                                                                                                     ask_sdk_model.interfaces.alexa.presentation.apl.component_visil
                  method), 53
method), 53
                                                                                                                                     (class in ask_sdk_model.interfaces.alexa.presentation.apl.compor
CLIENT_CREDENTIALS_GRANT_TYPE
                   (ask_sdk_model.services.lwa.lwa_client.LwaClientomponentVisibleOnScreenListTag (class in
                  attribute), 265
                                                                                                                                     ask_sdk_model.interfaces.alexa.presentation.apl.component_visit
CLIENT_CREDENTIALS_GRANT_TYPE
                  (ask_sdk_model_runtime.lwa.lwa_client.LwaClientomponentVisibleOnScreenMediaTag (class in
                  attribute), 57
                                                                                                                                     ask_sdk_model.interfaces.alexa.presentation.apl.component_visit
```

Closed (ask_sdk_model.interfaces.amazonpay.model.response.state.State

```
ComponentVisibleOnScreenMediaTagStateEnum
                                                              ask_sdk_model.interfaces.connections.connections_request),
         (class in ask_sdk_model.interfaces.alexa.presentation.apl.component_visible_on_screen_media_tag_state_enum),
                                                     ConnectionsResponse
                                                                                         (class
ComponentVisibleOnScreenPagerTag (class in
                                                              ask_sdk_model.interfaces.connections.connections_response),
        ask_sdk_model.interfaces.alexa.presentation.apl.component_\@lsible_on_screen_pager_tag),
                                                     ConnectionsStatus
                                                                                                       in
ComponentVisibleOnScreenScrollableTag
                                                              ask_sdk_model.interfaces.connections.connections_status),
         (class in ask_sdk_model.interfaces.alexa.presentation.apl.com@onent_visible_on_screen_scrollable_tag),
                                                     CONSUMABLE (ask_sdk_model.services.monetization.product_type.Produc
ComponentVisibleOnScreenScrollableTagDirectionEattribute), 271
         (class in ask_sdk_model.interfaces.alexa.presenta@NADIMAEDIMask_<u>vivibpi_omo_kchrednispcpoblabbe_tygpe_Pimeatic</u>nT<u>ypa</u>um),
                                                              attribute), 385
ComponentVisibleOnScreenTags
                                        (class
                                                 in ContentUploadFileSummary
                                                                                            (class
        ask_sdk_model.interfaces.alexa.presentation.apl.componentaskisihhapinmsodekw_ltagsqlog.upload.content_upload_file_summa
ComponentVisibleOnScreenViewportTag
                                                     Context (class in ask_sdk_model.context), 312
         (class in ask_sdk_model.interfaces.alexa.presenta@mapil.wompowentwibile_sinz_screen_viewlport_tag), in
        93
                                                              ask_sdk_model.interfaces.viewport.size.continuous_viewport_size
Confidence
                            (class
                                                 in
        ask_smapi_model.v1.skill.history.confidence),
                                                     ControlMediaCommand
                                                                                         (class
        416
                                                               ask_sdk_model.interfaces.alexa.presentation.apl.control_media_o
ConfidenceBin
                               (class
        ask_smapi_model.v1.skill.history.confidence_bin),Coordinate
                                                                                  (class
        417
                                                              ask_sdk_model.interfaces.geolocation.coordinate),
Configuration
                               (class
                                                  in
        ask_sdk_model.interfaces.alexa.presentation.html@p(figkraniap)_model.v1.isp.distribution_countries.DistributionCountries
                                                              attribute), 372
                                                 in CR (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
ConfirmationStatusType
                                     (class
        ask_smapi_model.v1.skill.evaluations.confirmation_status_temperbute), 456
                                                     CREATE (ask_smapi_model.v1.skill.action.Action at-
CONFIRMED (ask_sdk_model.intent_confirmation_status.IntentConfirmibite) $\interlightarrow\text{Status}$
        attribute), 317
                                                     Create(ask_smapi_model.v1.skill.manifest.request_name.RequestName
CONFIRMED (ask_sdk_model.slot_confirmation_status.SlotConfirmation), 488
        attribute), 330
                                                     create()
                                                                     (ask\_sdk.standard.StandardSkillBuilder
CONFIRMED (ask_smapi_model.v1.skill.evaluations.confirmation_statust!tsple, ConfirmationStatusType
        attribute), 409
                                                     create() (ask_sdk_core.skill_builder.CustomSkillBuilder
ConfirmIntentDirective
                                     (class
        ask_sdk_model.dialog.confirm_intent_directive), create()
                                                                     (ask_sdk_core.skill_builder.SkillBuilder
                                                              method), 21
ConfirmSlotDirective
                                                     create() (ask_sdk_runtime.skill_builder.AbstractSkillBuilder
                                   (class
                                                 in
        ask_sdk_model.dialog.confirm_slot_directive),
                                                              method), 13
                                                     create_beta_test_v1()
CONFLICTING INSTANCES
                                                               (ask_smapi_model.services.skill_management.skill_management_
         (ask_smapi_model.v1.skill.standardized_error_code.StandandethdE);r02Gode
        attribute), 532
                                                     create_catalog_upload_v1()
                                                              (ask_smapi_model.services.skill_management.skill_management_
ConnectionCompleted
                                   (class
                                                 in
        ask_sdk_model.connection_completed), 312
                                                              method), 335
                             (class
                                                     create_export_request_for_skill_v1()
        ask_smapi_model.v1.skill.manifest.connections),
                                                              (ask_smapi_model.services.skill_management.skill_management_
                                                              method), 335
                                                  in create_interaction_model_catalog_v1()
ConnectionsPayload
                                  (class
        ask_smapi_model.v1.skill.manifest.connections_payload), (ask_smapi_model.services.skill_management.skill_management
        451
                                                              method), 335
ConnectionsRequest
                                  (class
                                                 in create_interaction_model_catalog_version_v1()
```

```
(ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient
        method), 335
                                                     CreateSkillWithPackageRequest (class in
                                                              ask_smapi_model.v1.skill.create_skill_with_package_request),
create_interaction_model_slot_type_v1()
         (ask_smapi_model.services.skill_management.skill_managendent_service_client.SkillManagementServiceClient
        method), 336
                                                     CriticalDataHandling
                                                                                        (class
create_interaction_model_slot_type_version_v1()ask_smapi_model.v1.skill.manifest.critical_data_handling),
         (ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient
                                                     Currency (class in ask_smapi_model.v1.isp.currency),
        method), 336
create_isp_for_vendor_v1()
                                                              370
         (ask_smapi_model.services.skill_management.skilt_unanægenent_sægvicæ_tclient.SkillManugensæntService@lient
                                                              ask_sdk_model.interfaces.viewport.apl.current_configuration),
create_list() (ask_sdk_model.services.list_management.list_management_service_client.ListManagementServiceClient
        method), 258
                                                     CurrentPlaybackState
                                                                                        (class
create_list_item()
                                                              ask_sdk_model.interfaces.audioplayer.current_playback_state),
        (ask_sdk_model.services.list_management.list_management<u>l</u>sδrvice_client.ListManagementServiceClient
        method), 258
                                                     custom(ask_smapi_model.v1.skill.metrics.skill_type.SkillType
                                                              attribute), 504
create_proactive_event()
         (ask_sdk_model.services.proactive_events.proactive<u>axvents(asdry</u>ioeaptientaletakdEskitlsSaminaElientis.SkillSummaryApis
                                                              attribute), 530
        method), 276
                                                     CustomApis
create_reminder()
                                                                                  (class
        (ask_sdk_model.services.reminder_management.reminder_mshaggangintnsadvlivd_xkliklumRnifientlenMommagganse)ntServiceClient
        method), 286
create_skill_for_vendor_v1()
                                                     CustomConnections
                                                                                       (class
                                                                                                      in
         (ask_smapi_model.services.skill_management.skill_managemskntsmenpiionocleentlSkillMuunaigestemtSorvicacahentions),
        method), 336
create_skill_package_v1()
                                                     {\tt CustomerInitiatedTransaction}
         (ask_smapi_model.services.skill_management.skill_managetasht_ssbr_nin@delliinte.fkidbManagempasSenodebEdiprest.billing_agre
        method), 336
                                                              attribute), 133
create_upload_url_v1()
                                                     CustomerInitiatedTransaction
        (ask_smapi_model.services.skill_management.skill_managetaskt_ssbr_nivedel.iinteisfkideManagempasSenodee&lientling_agreemen
        method), 337
                                                              attribute), 149
CreateContentUploadUrlRequest (class in CustomInterface
                                                                                     (class
                                                                                                       in
        ask_smapi_model.v1.catalog.create_content_upload_url_reqskssnapi_model.v1.skill.manifest.custom_interface),
                                                              453
CreateContentUploadUrlResponse (class in CustomInterfaceController_EventsReceived
        ask_smapi_model.v1.catalog.create_content_upload_url_respsh_sm_api_model.v1.skill.manifest.event_name_type.EventName
         367
                                                              attribute), 466
CreateInSkillProductRequest
                                        (class
                                                 \it in CustomInterfaceController_Expired
        ask_smapi_model.v1.isp.create_in_skill_product_request), (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
         369
                                                              attribute), 466
CreateListItemRequest
                                                 in CustomProductPrompts
                                    (class
                                                                                        (class
        ask_sdk_model.services.list_management.create_list_item_nexhussthapi_model.v1.isp.custom_product_prompts),
CreateListRequest
                                                 in CustomSkill(class in ask_sdk_core.skill), 21
                                 (class
        ask_sdk_model.services.list_management.create_kist_srequest);llBuilder
                                                                                                      in
                                                              ask_sdk_core.skill_builder), 23
                                                 in CustomSmapiClientBuilder
CreateProactiveEventRequest
                                        (class
                                                                                           (class
                                                                                                      in
        ask_sdk_model.services.proactive_events.create_proactive_asknsnrapiesdk.smapi_builder), 54
        274
                                                     {\tt CV}\ (ask\_smapi\_model.v1.isp. distribution\_countries. DistributionCountries
                                                              attribute), 372
CreateSkillRequest
                                  (class
                                                 in
        ask_smapi_model.v1.skill.create_skill_request), CV (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution
                                                              attribute), 456
         517
CreateSkillResponse
                                  (class
                                                 in CX (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                                                              attribute), 372
        ask_smapi_model.v1.skill.create_skill_response),
```

```
CX (ask_smapi_model.v1.skill.manifest.distribution_countriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distribution_CountriDs=Distrib
                                                                                                                                                                                                                                        (class
                                                                                                                                                                                                                                                                                 in
                                                                                                                                                                      ask sdk model runtime.serializer), 62
                        attribute), 456
CY (ask_smapi_model.v1.isp.distribution_countries.DistributionicCountries.Data
                                                                                                                                                                                                                                                                                  in
                       attribute), 372
                                                                                                                                                                      ask_smapi_model.v1.skill.interaction_model.catalog.definition_d
CY (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
                                                                                                                                             DelegateDirective
                       attribute), 457
                                                                                                                                                                                                                                       (class
                                                                                                                                                                                                                                                                                 in
CZ (ask smapi model.v1.isp.distribution countries.DistributionCountriks sdk model.dialog.delegate directive),
                        attribute), 372
CZ (ask_smapi_model.v1.skill.manifest.distribution_countri&=Distribution&buratriesgyType
                                                                                                                                                                                                                                                (class
                                                                                                                                                                                                                                                                                  in
                                                                                                                                                                      ask_smapi_model.v1.skill.interaction_model.delegation_strategy_
                       attribute), 457
D
                                                                                                                                              delete_account_linking_info_v1()
DAILY (ask sdk model.services.reminder management.recurrence fleel Renument pervices.skill_management.skill_management
                        attribute), 283
                                                                                                                                                                      method), 337
DAILY (ask_smapi_model.v1.skill.manifest.flash_briefing_update_frequency
                                                                                                                                                                      (ask_sdk_core.attributes_manager.AbstractPersistenceAdapter
                       attribute), 473
                                                                                                                                                                      method), 27
DataProtectionProvider
                                                                                                  (class
                       ask_smapi_model.v1.skill.manifest.data_protection protection tider tributes ()
                                                                                                                                                                      (ask_sdk_dynamodb.adapter.DynamoDbAdapter
\verb|DE| (ask\_smapi\_model.v1. isp. distribution\_countries. DistributionCountmet| hod), 35
                                                                                                                                             delete_attributes()
                        attribute), 372
\verb|DE| (ask\_smapi\_model.v1.skill.manifest.distribution\_countries.Distribution\_stribution\_countries.Distribution\_stribution\_countries.Distribution\_stribution\_countries.Distribution\_stribution\_countries.Distribution\_stribution\_countries.Distribution\_stribution\_countries.Distribution\_stribution\_countries.Distribution\_stribution\_countries.Distribution\_stribution\_countries.Distribution\_stribution\_countries.Distribution\_stribution\_countries.Distribution\_stribution\_countries.Distribution\_stribution\_countries.Distribution\_stribution\_countries.Distribution\_stribution\_countries.Distribution\_stribution\_countries.Distribution\_stribution\_countries.Distribution\_stribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distributio
                                                                                                                                                                                                                                                                 method),
                        attribute), 457
\texttt{de\_DE} (\textit{ask\_smapi\_model.v1.skill.history.intent\_request\_locales:} \textit{InteniRequest\_bounders} \textbf{\_model\_catalog\_v1} ()
                                                                                                                                                                      (ask_smapi_model.services.skill_management.skill_management
                        attribute), 420
\verb"de_DE" (ask\_smapi\_model.v1.skill.history.locale\_in\_query.LocaleInQmethod), 337
                                                                                                                                              delete_interaction_model_catalog_version_v1()
                       attribute), 421
method), 337
                       attribute), 143
Declined (ask_sdk_model.interfaces.amazonpay.model.v P. State nteraction_model_slot_type_v1()
                                                                                                                                                                      (ask_smapi_model.services.skill_management.skill_management_
                        attribute), 154
DECLINED (ask_sdk_model.interfaces.monetization.vl.purchase_resume.puehaseResult
                                                                                                                                             delete_interaction_model_slot_type_version_v1()
                        attribute), 212
DEFAULT (ask_smapi_model.v1.skill.simulations.session_mode.Sessibashospapi_model.services.skill_management.skill_management
                                                                                                                                                                      method), 338
                       attribute), 509
                                                                                                                                              delete_isp_for_product_v1()
DEFAULT_LWA_ENDPOINT
                                                                                                                                                                      (ask_smapi_model.services.skill_management.skill_management
                        (ask_sdk_model.services.lwa.lwa_client.LwaClient
                                                                                                                                                                      method), 338
                       attribute), 265
                                                                                                                                              delete_list() (ask_sdk_model.services.list_management.list_manage
DEFAULT_LWA_ENDPOINT
                                                                                                                                                                      method), 259
                        (ask_sdk_model_runtime.lwa.lwa_client.LwaClient
                                                                                                                                              delete list item()
                       attribute), 57
                                                                                                                                                                      (ask_sdk_model.services.list_management.list_management_serv
DEFAULT_PATH_PREFIX
                                                                                                                                                                     method), 259
                       (ask_sdk_s3.adapter.S3Adapter
                                                                                                                attribute),
                                                                                                                                              delete_persistent_attributes()
                                                                                                                                                                      (ask_sdk_core.attributes_manager.AttributesManager
DEFAULT TIMESTAMP TOLERANCE IN MILLIS
                        (in module ask_sdk_webservice_support.verifier_constants),method), 26
                                                                                                                                              delete_private_distribution_account_id_v1()
                       43
                                                                                                                                                                      (ask_smapi_model.services.skill_management.skill_management_
DefaultApiClient
                                                                                       (class
                                                                                                                                   in
                                                                                                                                                                      method), 338
                       ask_sdk_core.api_client), 27
                                                                                                                                             delete_reminder()
DefaultApiClient
                                                                                       (class
                                                                                                                                   in
                                                                                                                                                                      (ask_sdk_model.services.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.re
                       ask_sdk_model_runtime.api_client), 58
                                                                                                                                                                      method), 286
DefaultSerializer
                                                                                         (class
                                                                                                                                              delete_skill_enablement_v1()
                       ask_sdk_core.serialize), 28
                                                                                                                                                                      (ask_smapi_model.services.skill_management.skill_management
```

```
method), 338
                                                                                                                                                                                   attribute), 69
delete_skill_v1()
                                                                                                                                                         deserialized_types
                          (ask_smapi_model.services.skill_management.skill_manage(nsht_skh_vinædelidiulSkillellagutgedieetSicrvIdelEfianDirective
                         method), 339
                                                                                                                                                                                   attribute), 69
DENIED (ask_sdk_model.intent_confirmation_status.Intent@artfæmintidniStæds_types
                         attribute), 317
                                                                                                                                                                                   (ask_sdk_model.dialog.dynamic_entities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_directive.DynamicEntities_direc
DENIED (ask_sdk_model.permission_status.PermissionStatus
                                                                                                                                                                                   attribute), 70
                                                                                                                                                          deserialized_types
                          attribute), 319
attribute), 330
                                                                                                                                                                                   attribute), 70
DENIED (ask_smapi_model.v1.skill.evaluations.confirmationestatus_dypez@onftrynationStatusType
                                                                                                                                                                                   (ask_sdk_model.directive.Directive attribute),
                         attribute), 409
DENIED_BY_PARENT (ask_sdk_model.services.monetization.status.Status
                         attribute), 273
                                                                                                                                                         deserialized_types
                                                                                                                                                                                   (ask_sdk_model.er.dynamic.entity.Entity
DENIED_FEATURE_ACCESS
                         (ask_smapi_model.v1.skill.standardized_error_code.Standardizedler)ofCode
                         attribute), 532
                                                                                                                                                         deserialized_types
                                                                                                                                                                                   (ask_sdk_model.er.dynamic.entity_list_item.EntityListItem
Density (class in ask_sdk_core.utils.viewport), 30
deserialize() (ask_sdk_core.serialize.DefaultSerializer
                                                                                                                                                                                   attribute), 71
                         method), 29
                                                                                                                                                         deserialized_types
deserialize() (ask_sdk_model.services.serializer.Serializer
                                                                                                                                                                                   (ask_sdk_model.er.dynamic.entity_value_and_synonyms.EntityVa
                         method), 301
                                                                                                                                                                                   attribute), 72
deserialize() (ask_sdk_model_runtime.serializer.DefaultSerializerized_types
                                                                                                                                                                                   (ask_sdk_model.events.skillevents.account_linked_body.Account1
                         method), 62
deserialize() (ask_sdk_model_runtime.serializer.Serializer
                                                                                                                                                                                   attribute), 73
                         method), 63
                                                                                                                                                         deserialized_types
deserialized_types
                                                                                                                                                                                   (ask_sdk_model.events.skillevents.account_linked_request.Account_
                         (ask\_sdk\_model.application.Application
                                                                                                                                                                                   attribute), 74
                                                                                                                                                         deserialized_types
                         attribute), 311
deserialized_types
                                                                                                                                                                                   (ask_sdk_model.events.skillevents.permission.Permission
                          (ask_sdk_model.canfulfill.can_fulfill_intent.CanFulfillIntentattribute), 74
                         attribute), 66
                                                                                                                                                         deserialized_types
                                                                                                                                                                                   (ask\_sdk\_model.events.skillevents.permission\_accepted\_request.Model.events.skillevents.permission\_accepted\_request.Model.events.skillevents.permission\_accepted\_request.Model.events.skillevents.permission\_accepted\_request.Model.events.skillevents.permission\_accepted\_request.Model.events.skillevents.permission\_accepted\_request.Model.events.skillevents.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_request.Model.events.permission\_accepted\_accepted\_accepted\_accepted\_accepted\_accepted\_accepted\_accepted\_accepted\_accepted\_accepted\_accepted\_accepted\_accept
deserialized_types
                          (ask_sdk_model.canfulfill.can_fulfill_intent_request.CanFulfillFibuteRefuest
                         attribute), 66
                                                                                                                                                         deserialized_types
                                                                                                                                                                                   (ask_sdk_model.events.skillevents.permission_body.PermissionBe
deserialized_types
                         (ask_sdk_model.canfulfill.can_fulfill_slot.CanFulfillSlot
                                                                                                                                                                                   attribute), 75
                         attribute), 67
                                                                                                                                                         deserialized_types
deserialized_types (ask_sdk_model.cause.Cause
                                                                                                                                                                                   (ask_sdk_model.events.skillevents.permission_changed_request.F
                                                                                                                                                                                   attribute), 76
                         attribute), 311
                                                                                                                                                         deserialized_types
deserialized_types
                          (ask_sdk_model.connection_completed.ConnectionCompletedsk_sdk_model.events.skillevents.proactive_subscription_change
                         attribute), 312
                                                                                                                                                                                  attribute), 76
deserialized_types
                                                                                                                                                         deserialized_types
                         (ask\_sdk\_model.context.Context
                                                                                                                                                                                   (ask\_sdk\_model.events.skillevents.proactive\_subscription\_changestarter (ask\_sdk\_model.events.skillevents.proactive\_subscription\_changestarter (ask\_sdk\_model.events.skillevents.proactive\_subscription\_changestarter (ask\_sdk\_model.events.skillevents.proactive\_subscription\_changestarter (ask\_sdk\_model.events.skillevents.proactive\_subscription\_changestarter (ask\_sdk\_model.events.skillevents.proactive\_subscription\_changestarter (ask\_sdk\_model.events.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.skillevents.
                                                                                                                         attribute),
                          313
                                                                                                                                                                                   attribute), 77
deserialized_types
                                                                                                                                                         deserialized_types
                          (ask_sdk_model.device.Device
                                                                                                                                                                                   (ask_sdk_model.events.skillevents.proactive_subscription_event.l
                                                                                                                         attribute),
                          314
                                                                                                                                                                                   attribute), 77
deserialized_types
                                                                                                                                                         deserialized_types
                         (ask_sdk_model.dialog.confirm_intent_directive.ConfirmIntentDisektivecodel.events.skillevents.skill_disabled_request.SkillDis
                         attribute), 69
                                                                                                                                                                                   attribute), 78
                                                                                                                                                         deserialized_types
deserialized_types
```

(ask_sdk_model.dialog.confirm_slot_directive.ConfirmSlotDirektisdk_model.events.skillevents.skill_enabled_request.SkillEna

```
attribute), 78
                                                                                                                                                                                 deserialized_types
deserialized_types (ask_sdk_model.intent.Intent
                                                                                                                                                                                                               (ask_sdk_model.interfaces.alexa.presentation.apl.component_visa
                                                                                                                                                                                                              attribute), 93
                            attribute), 317
deserialized_types
                                                                                                                                                                                 deserialized_types
                              (ask_sdk_model.intent_request.IntentRequest
                                                                                                                                                                                                               (ask\_sdk\_model.interfaces.alexa.presentation.apl.control\_media\_interfaces.alexa.presentation.apl.control\_media\_interfaces.alexa.presentation.apl.control\_media\_interfaces.alexa.presentation.apl.control\_media\_interfaces.alexa.presentation.apl.control\_media\_interfaces.alexa.presentation.apl.control\_media\_interfaces.alexa.presentation.apl.control\_media\_interfaces.alexa.presentation.apl.control\_media\_interfaces.alexa.presentation.apl.control\_media\_interfaces.alexa.presentation.apl.control\_media\_interfaces.alexa.presentation.apl.control\_media\_interfaces.alexa.presentation.apl.control\_media\_interfaces.alexa.presentation.apl.control\_media\_interfaces.alexa.presentation.apl.control\_media\_interfaces.alexa.presentation.apl.control\_media\_interfaces.alexa.presentation.apl.control\_media\_interfaces.alexa.presentation.apl.control\_media\_interfaces.alexa.presentation.apl.control\_media\_interfaces.alexa.presentation.apl.control\_media\_interfaces.alexa.presentation.apl.control\_media\_interfaces.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.present
                            attribute), 318
                                                                                                                                                                                                               attribute), 94
                                                                                                                                                                                 deserialized_types
deserialized_types
                             (ask_sdk_model.interfaces.alexa.presentation.apl.alexa_presenkatiokk_mpklahtatfafæc&sexkeRnepeusatinoni&pllupkefæcaute_commo
                            attribute), 79
                                                                                                                                                                                                               attribute), 95
deserialized_types
                                                                                                                                                                                 deserialized_types
                              (ask_sdk_model.interfaces.alexa.presentation.apl.animate_i(ank_cookk_mooodkAintacftcetexxaCooxunprensentation.apl.idle_command.
                             attribute), 81
                                                                                                                                                                                                               attribute), 96
                                                                                                                                                                                 deserialized_types
deserialized_types
                             (ask_sdk_model.interfaces.alexa.presentation.apl.animated_(apk_cit)k_propledtinAerifacesdDpac.ptydScoperityn.apl.move_transforn
                                                                                                                                                                                                               attribute), 96
                             attribute), 81
deserialized_types
                                                                                                                                                                                 deserialized_types
                             (ask_sdk_model.interfaces.alexa.presentation.apl.animated_(askpsdky_AnidativdPrfqrestsalexa.presentation.apl.open_url_comn
                             attribute), 82
                                                                                                                                                                                                               attribute), 97
                                                                                                                                                                                 deserialized_types
deserialized_types
                              (ask_sdk_model.interfaces.alexa.presentation.apl.animated_(trxln.sfdkmmpdeplentterfairexutddXuqnxfxvmtdtiopeapl.parallel_comm
                            attribute), 82
                                                                                                                                                                                                              attribute), 98
deserialized_types
                                                                                                                                                                                 deserialized_types
                             (ask_sdk_model.interfaces.alexa.presentation.apl.auto_pag&askmodkmodedbiPagefaoeswalanda.presentation.apl.play_media_co
                            attribute), 84
                                                                                                                                                                                                               attribute), 99
deserialized_types
                                                                                                                                                                                 deserialized_types
                             attribute), 84
                                                                                                                                                                                                               attribute), 100
deserialized_types
                                                                                                                                                                                 deserialized_types
                             (ask_sdk_model.interfaces.alexa.presentation.apl.command.(asknusdkn_dnodel.interfaces.alexa.presentation.apl.rendered_docum
                            attribute), 86
                                                                                                                                                                                                               attribute), 100
deserialized_types
                                                                                                                                                                                 deserialized_types
                             (ask_sdk_model.interfaces.alexa.presentation.apl.componentashtisdk_mndohinteEfaites.alexa.presentation.apl.rotate_transfor.
                            attribute), 86
                                                                                                                                                                                                               attribute), 101
deserialized_types
                                                                                                                                                                                 deserialized_types
                              (ask_sdk_model.interfaces.alexa.presentation.apl.componen<u>tasksiktk_</u>modedrivetexfaanpantexasfiseisteaatsameapl.runtime.Runtim
                                                                                                                                                                                                              attribute), 101
                            attribute), 88
deserialized_types
                                                                                                                                                                                 deserialized_types
                             (ask_sdk_model.interfaces.alexa.presentation.apl.componentastisistik_prodedrivetorfixtestatortuprexempaticontribisistialonsialion.
                             attribute), 88
                                                                                                                                                                                                               attribute), 101
                                                                                                                                                                                 deserialized_types
deserialized_types
                              (ask_sdk_model.interfaces.alexa.presentation.apl.componen<u>taskisiklk_prod</u>edr<del>aeverfixte_sagl&aupperenttKioible@ks&coble_cbissFiag</del>e
                             attribute), 89
                                                                                                                                                                                                               attribute), 102
deserialized_types
                                                                                                                                                                                 deserialized_types
                             (ask_sdk_model.interfaces.alexa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisa.presentation.apl.componentastisistik_productivenerfaedisa.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.
                             attribute), 90
                                                                                                                                                                                                               attribute), 103
deserialized_types
                                                                                                                                                                                 deserialized_types
                             (ask\_sdk\_model.interfaces.alexa.presentation.apl.component \underline{ask\_siklk\_mo\_k} alexa \underline{component} \underline{ask\_siklk\_mo\_k} alexa \underline{component} \underline{ask\_siklk\_mo\_k} alexa \underline{component} \underline{ask\_siklk\_mo\_k} \underline{component} \underline{ask\_siklk\_mo\_k} \underline{component} \underline{ask\_siklk\_mo\_k} \underline{component} 
                            attribute), 91
                                                                                                                                                                                                               attribute), 104
deserialized_types
                                                                                                                                                                                 deserialized_types
                              (ask_sdk_model.interfaces.alexa.presentation.apl.component<u>asksiktk_mode</u>dr<del>iveterfæroblableatpge&compione.apl</del>isebje&ntid<u>r</u>ænb
                             attribute), 91
                                                                                                                                                                                                               attribute), 105
```

deserialized_types (ask_sdk_model.interfaces.alexa.presentation.apl.componen<u>taskisiklk_prod</u>edrpeterfages@dexpoprent&ixiibil@Qa\$l:seenfTiczes_comr

attribute), 106

deserialized_types

```
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.alexa.presentation.apl.set_page_(ask_nsdkd/fiotRdget&rfanasnallexa.presentation.aplt.send_event_co
                    attribute), 107
                                                                                                                                                attribute), 120
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.alexa.presentation.apl.set_state_(xask_nsabkd/SietSabtetCorfanasmallexa.presentation.aplt.sequential_cor
                    attribute), 108
                                                                                                                                                attribute), 121
                                                                                                                           deserialized_types
deserialized_types
                    (ask_sdk_model.interfaces.alexa.presentation.apl.set_value_(ask_sdkh_dh&dVulue&faanxankexa.presentation.aplt.set_page_com
                    attribute), 108
                                                                                                                                                attribute), 122
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.alexa.presentation.apl.skew_tran<mark>cfoknsdkraporte/SkeevJaaessfahmAPprpzerty</mark>ation.aplt.set_value_com
                    attribute), 109
                                                                                                                                                attribute), 123
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.alexa.presentation.apl.speak_itet<mark>/a.sko.noblapk.int/leefaCaxmhexac</mark>presentation.aplt.user_event.Usa
                    attribute), 110
                                                                                                                                                attribute), 124
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.alexa.presentation.apl.speak_list<u>(axkm.sukh_dh&pleukukistf@aanndax</u>da.presentation.html.alexa_present
                    attribute), 110
                                                                                                                                                attribute), 125
                                                                                                                           deserialized_types
deserialized_types
                    (ask_sdk_model.interfaces.alexa.presentation.apl.transform<u>(ppstopadky.Finalesf.interFinepes.nty</u>exa.presentation.html.configuration.
                    attribute), 111
                                                                                                                                               attribute), 125
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.alexa.presentation.apl.user_eventdslsesEkentodel.interfaces.alexa.presentation.html.handle_messa
                    attribute), 112
                                                                                                                                                attribute), 126
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.alexa.presentation.apl.video_souwsk<u>Vidbko</u>Swowlek.interfaces.alexa.presentation.html.message_requ
                    attribute), 112
                                                                                                                                                attribute), 126
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.alexa.presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alexa_presentation.aplt.alex
                    attribute), 113
                                                                                                                                                attribute), 127
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.alexa.presentation.aplt.auto_pag(askonsobkamb)AutoiPteg(Acemaland.presentation.html.start_directive
                    attribute), 114
                                                                                                                                                attribute), 128
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.alexa.presentation.aplt.command.Gsh<sub>m</sub>rdkndhodel.interfaces.alexa.presentation.html.start_request..
                                                                                                                                               attribute), 128
                    attribute), 115
deserialized_types
                                                                                                                           deserialized_types
                    (ask\_sdk\_model.interfaces.alexa.presentation.aplt.execute\_ \verb"(aush\underline{n}.suhkl\underline{s}\underline{m}.bidel:tiivke:Flaces.alexa.presentation.aplt.execute\_ \verb"(aush\underline{n}.suhkl\underline{s}\underline{m}.bidel:tiivke:Flaces.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.presentation.alexa.pre
                    attribute), 116
                                                                                                                                                attribute), 129
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.alexa.presentation.aplt.idle_comtaashdslille_Giorhrhimtelrfaces.amazonpay.model.request.authorize_a
                    attribute), 116
                                                                                                                                                attribute), 131
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.alexa.presentation.aplt.parallel_coskmakd_iPortell.itConfunes.dmazonpay.model.request.base_amazo
                    attribute), 117
                                                                                                                                                attribute), 132
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.alexa.presentation.aplt.render_docslmsdk_dimakelvinRefakesDonamontDiractlek.request.billing_agra
                    attribute), 118
                                                                                                                                                attribute), 133
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.alexa.presentation.aplt.runtime.Runkiṛṣdk_model.interfaces.amazonpay.model.request.price.Price
                    attribute), 118
                                                                                                                                                attribute), 134
                                                                                                                           deserialized_types
deserialized_types
                    (ask_sdk_model.interfaces.alexa.presentation.aplt.scroll_cotourskarsdllSaradllEhintenfaces.amazonpay.model.request.provider_at
```

attribute), 135

```
deserialized_types
deserialized_types
          (ask_sdk_model.interfaces.amazonpay.model.request.provid@a<u>slcrsdkt_Prodedlem@rfdit</u>es.amazonpay.model.v1.seller_order_atti
          attribute), 135
                                                                           attribute), 154
deserialized_types
                                                                deserialized_types
          (ask_sdk_model.interfaces.amazonpay.model.request.seller_(biskirs<u>alkazmoehrikintta</u>aftribustamBellapBilliagpAzstadnaeptAttmibmoes_p
          attribute), 136
                                                                           attribute), 155
                                                                deserialized_types
deserialized_types
          (ask_sdk_model.interfaces.amazonpay.model.request.seller_(arstkersdkttnibatkelsiBedlefaCextlanAutxihptesrequest.setup_amazon_pa
          attribute), 137
                                                                           attribute), 156
deserialized_types
                                                                deserialized_types
          (ask_sdk_model.interfaces.amazonpay.model.response.auth&nislatisdk_daddlkiAtalfaciesationDetapilsy.response.amazon_pay_err
          attribute), 139
                                                                           attribute), 157
deserialized_types
                                                                deserialized_types
          (ask_sdk_model.interfaces.amazonpay.model.response.auth@nixlatisdk_motels.Anthr@nixatiam@tammpay.response.charge_amazon_
          attribute), 140
                                                                           attribute), 158
deserialized_types
                                                                deserialized_types
          (ask_sdk_model.interfaces.amazonpay.model.response.billin(<u>grskgsdkm</u>enod<u>l</u>aleinatidsfBickingnAgzoeupayxtDxpoilse.setup_amazon_p
          attribute), 141
                                                                           attribute), 158
                                                                deserialized_types
deserialized_types
          (ask_sdk_model.interfaces.amazonpay.model.response.destitaskorsdle.mindalanterfaces.amazonpay.v1.amazon_pay_error_res
          attribute), 142
                                                                           attribute), 159
deserialized_types
                                                                deserialized_types
          (ask_sdk_model.interfaces.amazonpay.model.response.priced.thshicsdk_model.interfaces.amazonpay.v1.charge_amazon_pay.Cl
                                                                           attribute), 160
          attribute), 142
deserialized_types
                                                                deserialized_types
          (ask_sdk_model.interfaces.amazonpay.model.v1.authorizati@nsldesdklsvAndhbinixatfanDedwikzonpay.v1.charge_amazon_pay_ra
          attribute), 145
                                                                           attribute), 160
deserialized_types
                                                                deserialized_types
          (ask_sdk_model.interfaces.amazonpay.model.v1.authorizati@askststiks.Auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati@askststiks.auothdrizati
          attribute), 146
                                                                           attribute), 161
deserialized_types
                                                                deserialized_types
          (ask_sdk_model.interfaces.amazonpay.model.v1.authorize_attskbustks_AuthorizeAutfailnstesnazonpay.v1.setup_amazon_pay_res
          attribute), 146
                                                                           attribute), 162
                                                                deserialized_types
deserialized_types
          (ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreaske<u>rstlkat</u>orioleleisnBilfaceA.gnedinphaAenibudias_item.AudioItem
          attribute), 147
                                                                           attribute), 162
                                                                deserialized_types
deserialized_types
          (ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreenkerstlkdetroidle:BiiltinrferendiatipDatxeil.suudio_item_metadata.Auc
          attribute), 148
                                                                           attribute), 163
deserialized_types
                                                                deserialized_types
          (ask_sdk_model.interfaces.amazonpay.model.v1.destination(Delstindhi_model.interfaces.audioplayer.audio_player_interface.A
          attribute), 150
                                                                           attribute), 163
deserialized_types
                                                                deserialized_types
          (ask_sdk_model.interfaces.amazonpay.model.v1.price.Price(ask_sdk_model.interfaces.audioplayer.audio_player_state.Audio
                                                                           attribute), 164
          attribute), 151
deserialized_types
                                                                deserialized_types
          (ask_sdk_model.interfaces.amazonpay.model.v1.provider_attaskutsekPmoddkiAtterfbutessaudioplayer.caption_data.CaptionDat
          attribute), 152
                                                                           attribute), 164
deserialized_types
                                                                deserialized_types
          (ask_sdk_model.interfaces.amazonpay.model.v1.provider_ckeckk_Rdkyintexterfaces.audioplayer.clear_queue_directive.Cle
          attribute), 152
                                                                           attribute), 165
                                                                deserialized_types
deserialized_types
          (ask_sdk_model.interfaces.amazonpay.model.v1.seller_billingslagsdk_montleditionibufteseSedledBiplingeAgroremen_tAttytbudesstate.C
```

attribute), 166

```
deserialized_types
                                                                                                                           deserialized_types
                    (ask\_sdk\_model.interfaces.audioplayer.error.Error
                                                                                                                                                (ask_sdk_model.interfaces.connections.requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.prin
                                                                                                                                               attribute), 177
                    attribute), 166
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.audioplayer.play_directive.PlayQirsctisek_model.interfaces.connections.requests.print_web_page_
                    attribute), 167
                                                                                                                                               attribute), 178
                                                                                                                           deserialized_types
deserialized_types
                    (ask_sdk_model.interfaces.audioplayer.playback_failed_reqtasst_RbbybnoklEbihedReapes.stonnections.requests.schedule_food_e
                    attribute), 168
                                                                                                                                                attribute), 178
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.audioplayer.playback_finished_rkqsle_stAkl_gyloaleH.FintesHadRegouenections.requests.schedule_taxi_re
                    attribute), 169
                                                                                                                                                attribute), 179
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.audioplayer.playback_nearly_fin(slskd_sdkqmstl&llintleafadesabyFinisibesdReqdestequest_directive.Se
                    attribute), 169
                                                                                                                                                attribute), 183
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.audioplayer.playback_started_re(pskst_sHk_yhadk_SimterflRecquestnections.send_response_directive.s
                    attribute), 170
                                                                                                                                                attribute), 184
                                                                                                                           deserialized_types
deserialized_types
                    (ask_sdk_model.interfaces.audioplayer.playback_stopped_reqsle_ssAkl_gyloaleklSnappfedeRs.apverstections.v1.start_connection_direc
                    attribute), 171
                                                                                                                                               attribute), 180
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.audioplayer.stop_directive.StopDirektisdk_model.interfaces.custom_interface_controller.endpoint.
                                                                                                                                               attribute), 184
                    attribute), 171
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.audioplayer.stream.Stream
                                                                                                                                               (ask\_sdk\_model.interfaces.custom\_interface\_controller.event. Eve
                    attribute), 172
                                                                                                                                                attribute), 185
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.automotive.automotive_state.Aut(anstindel.interfaces.custom_interface_controller.event_filt
                    attribute), 173
                                                                                                                                                attribute), 185
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.connections.connections_request(ask_ionsdktionsdkdinestfaces.custom_interface_controller.events_re
                    attribute), 181
                                                                                                                                                attribute), 186
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.connections.connections_respon\c.Kondk_thonkR.enpenfsees.custom_interface_controller.expiration
                    attribute), 182
                                                                                                                                               attribute), 187
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.connections.connections_status. Cash_exdko_ms&deluisnterfaces.custom_interface_controller.expired_r
                    attribute), 183
                                                                                                                                                attribute), 188
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.connections.entities.base_entity.Rask_Extktymodel.interfaces.custom_interface_controller.header.H
                    attribute), 173
                                                                                                                                                attribute), 188
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.connections.entities.postal_address:Postkl_hdeltek.interfaces.custom_interface_controller.send_dire
                                                                                                                                                attribute), 189
                    attribute), 174
deserialized_types
                                                                                                                           deserialized_types
                    (ask_sdk_model.interfaces.connections.entities.restaurant.Resskusdkt_model.interfaces.custom_interface_controller.start_ever
                    attribute), 175
                                                                                                                                                attribute), 190
deserialized_types
                                                                                                                           deserialized_types
                    (ask\_sdk\_model.interfaces.connections.requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requests.base\_requ
                    attribute), 176
                                                                                                                                                attribute), 190
```

deserialized_types

attribute), 177

deserialized_types

attribute), 191

(ask_sdk_model.interfaces.connections.requests.print_imageaskq.ndkt_fruitelninteefkaasestsplay.body_template1.BodyTemplate

```
deserialized_types
deserialized_types
         (ask\_sdk\_model.interfaces.display.body\_template2.BodyTempkkt\_\&dk\_model.interfaces.display.template.Template
         attribute), 192
                                                                    attribute), 202
                                                          deserialized_types
deserialized_types
         (ask_sdk_model.interfaces.display.body_template3.BodyTempkktexdk_model.interfaces.display.text_content.TextContent
         attribute), 193
                                                                    attribute), 202
                                                          deserialized_types
deserialized_types
         (ask_sdk_model.interfaces.display.body_template6.BodyTen(pkhte6tlk_model.interfaces.display.text_field.TextField
         attribute), 193
                                                                    attribute), 203
                                                          deserialized_types
deserialized_types
         (ask\_sdk\_model.interfaces.display.body\_template7.BodyTempkktesdk\_model.interfaces.gadget\_controller.set\_light\_directive.States (ask\_sdk\_model.interfaces.gadget\_controller.set\_light\_directive.States (ask\_sdk\_model.interfaces.gadget\_controller.set\_light\_directive.States (ask\_sdk\_model.interfaces.gadget\_controller.set)
         attribute), 194
                                                                    attribute), 204
deserialized_types
                                                          deserialized_types
         (ask_sdk_model.interfaces.display.display_interface.Display.httlerfake_model.interfaces.game_engine.input_handler_event_red
         attribute), 194
                                                                    attribute), 205
deserialized_types
                                                          deserialized_types
         (ask_sdk_model.interfaces.display.display_state.DisplayStatask_sdk_model.interfaces.game_engine.start_input_handler_dir
         attribute), 195
                                                                    attribute), 205
                                                          deserialized_types
deserialized_types
         (ask_sdk_model.interfaces.display.element_selected_reques(A3lenseht_Snludve/dbRenfaxxts.game_engine.stop_input_handler_dire
         attribute), 195
                                                                    attribute), 206
deserialized_types
                                                          deserialized_types
         (ask_sdk_model.interfaces.display.hint.Hint
                                                                    (ask_sdk_model.interfaces.geolocation.altitude.Altitude
         attribute), 196
                                                                    attribute), 207
deserialized_types
                                                          deserialized_types
         (ask_sdk_model.interfaces.display.hint_directive.HintDirect(nek_sdk_model.interfaces.geolocation.coordinate.Coordinate
         attribute), 196
                                                                    attribute), 207
deserialized_types
                                                          deserialized_types
         (ask_sdk_model.interfaces.display.image.Image
                                                                    (ask_sdk_model.interfaces.geolocation.geolocation_interface.Geo
         attribute), 197
                                                                    attribute), 208
deserialized_types
                                                          deserialized_types
         (ask_sdk_model.interfaces.display.image_instance.ImageInstanskesdk_model.interfaces.geolocation.geolocation_state.Geoloc
         attribute), 197
                                                                    attribute), 208
deserialized_types
                                                          deserialized_types
         (ask_sdk_model.interfaces.display.list_item.ListItem
                                                                    (ask_sdk_model.interfaces.geolocation.heading.Heading
         attribute), 198
                                                                    attribute), 209
deserialized_types
                                                          deserialized_types
         (ask_sdk_model.interfaces.display.list_template1.ListTemplatesk_sdk_model.interfaces.geolocation.location_services.Locatio
         attribute), 199
                                                                    attribute), 209
deserialized_types
                                                          deserialized_types
         (ask_sdk_model.interfaces.display.list_template2.ListTemplate&_sdk_model.interfaces.geolocation.speed.Speed
         attribute), 199
                                                                    attribute), 210
deserialized_types
                                                          deserialized_types
         (ask\_sdk\_model.interfaces.display.plain\_text.PlainText
                                                                    (ask_sdk_model.interfaces.messaging.message_received_request.
         attribute), 200
                                                                    attribute), 211
deserialized_types
                                                          deserialized_types
         (ask_sdk_model.interfaces.display.plain_text_hint.PlainText\diskt_sdk_model.interfaces.monetization.v1.in_skill_product.InSk
         attribute), 200
                                                                    attribute), 212
deserialized_types
                                                          deserialized_types
         (ask_sdk_model.interfaces.display.render_template_directiv@aRle_nsdbr_TempledsimDirfactesenavigation.assistance.announce_road_
         attribute), 200
                                                                    attribute), 213
```

deserialized_types

attribute), 201

(ask_sdk_model.interfaces.display.rich_text.RichText

deserialized_types

attribute), 213

 $(ask_sdk_model.interfaces.navigation.navigation_interface.Navigation_interfaces.naviga$

```
deserialized_types
                                                                                       deserialized_types
              (ask_sdk_model.interfaces.playbackcontroller.next_comman<mark>dr.sls.s.vdkl_magdedstrikexft@onvnienvplostvexfReignaxt</mark>.Experience
                                                                                                     attribute), 228
              attribute), 214
deserialized_types
                                                                                       deserialized_types
              (ask_sdk_model.interfaces.playbackcontroller.pause_comma<u>nsk i sstke_dnøelqliersteRfauseCoienmpondIsispecelRuipuest</u>us_viewport_siz
              attribute), 215
                                                                                                     attribute), 224
deserialized_types
                                                                                       deserialized_types
              (ask_sdk_model.interfaces.playbackcontroller.play_comman(disks.ssdkd_maqledsin)PdvfqCesnvinanplbsstvsctRdipaceste_viewport_size.L
              attribute), 215
                                                                                                      attribute), 224
deserialized_types
                                                                                       deserialized_types
              (ask_sdk_model.interfaces.playbackcontroller.previous_cominsh<u>akdks</u>neoldekintesfAnexinanGomminadhexupdRegiæsNiewportS
              attribute), 216
                                                                                                      attribute), 225
deserialized_types
                                                                                       deserialized_types
              (ask_sdk_model.interfaces.system.error.Error
                                                                                                      (ask_sdk_model.interfaces.viewport.typed_viewport_state.TypedV
              attribute), 216
                                                                                                      attribute), 230
deserialized_types
                                                                                       deserialized_types
              (ask_sdk_model.interfaces.system.error_cause.ErrorCause (ask_sdk_model.interfaces.viewport.viewport_state.ViewportState
              attribute), 217
                                                                                                      attribute), 232
deserialized_types
                                                                                       deserialized_types
              (ask_sdk_model.interfaces.system.exception_encountered_rkqskstdkxgeptlehEnterfunctes.eviRepportstiewport_state_video.Video
              attribute), 218
                                                                                                      attribute), 232
deserialized_types
                                                                                       deserialized_types
              (ask_sdk_model.interfaces.system.system_state.SystemState(ask_sdk_model.interfaces.viewport.viewport_video.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.ViewportVideo.Viewpor
              attribute), 218
                                                                                                      attribute), 232
deserialized_types
                                                                                       deserialized_types
              (ask_sdk_model.interfaces.tasks.complete_task_directive.ComskleselkaskDdeedtivech_request.LaunchRequest
              attribute), 219
                                                                                                      attribute), 319
                                                                                       deserialized_types
deserialized_types
              (ask_sdk_model.interfaces.videoapp.launch_directive.Laundakirsdivenodel.permissions.Permissions
              attribute), 220
                                                                                                      attribute), 320
deserialized_types
                                                                                       deserialized_types
              (ask_sdk_model.interfaces.videoapp.metadata.Metadata
                                                                                                     (ask_sdk_model.person.Person
                                                                                                                                                            attribute),
                                                                                                      320
              attribute), 220
deserialized_types
                                                                                       deserialized_types
              (ask_sdk_model.interfaces.videoapp.video_app_interface.VidexkApplkntapfakelerequest.Request
                                                                                                                                                            attribute),
              attribute), 220
deserialized_types
                                                                                       deserialized_types
              (ask_sdk_model.interfaces.videoapp.video_item.VideoItem (ask_sdk_model.request_envelope.RequestEnvelope
              attribute), 221
                                                                                                      attribute), 324
deserialized_types
                                                                                       deserialized_types
              (ask_sdk_model.interfaces.viewport.apl.current_configurationsk_usdkntoadefigusptionse.Response attribute),
              attribute), 222
                                                                                                      325
                                                                                       deserialized_types
deserialized_types
              (ask_sdk_model.interfaces.viewport.apl.viewport_configurationk_Vidkpnott@onfigporationenvelope.ResponseEnvelope
              attribute), 222
                                                                                                      attribute), 325
deserialized_types
                                                                                       deserialized_types (ask_sdk_model.scope.Scope
              (ask_sdk_model.interfaces.viewport.apl_viewport_state.APIdfteibpter),$1206
              attribute), 227
                                                                                       deserialized_types
deserialized_types
                                                                                                      (ask\_sdk\_model.services.device\_address.address.Address
              (ask_sdk_model.interfaces.viewport.aplt.inter_segment.Intersignment), 233
              attribute), 223
                                                                                       deserialized_types
                                                                                                      (ask_sdk_model.services.device_address.error.Error
deserialized_types
              (ask_sdk_model.interfaces.viewport.aplt_viewport_state.APliff\( \) leawp\( \) \( \) r\( \) State
              attribute), 228
                                                                                       deserialized_types
```

```
(ask_sdk_model.services.device_address.short_address.Shoftt%ld_sdks_model.services.game_engine.pattern_recognizer.Pattern
              attribute), 235
                                                                                                       attribute), 247
deserialized_types
                                                                                        deserialized_types
               (ask_sdk_model.services.directive.directive.Directive
                                                                                                       (ask\_sdk\_model.services.game\_engine.progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress\_recognizer.Progress
              attribute), 236
                                                                                                       attribute), 248
deserialized_types
                                                                                        deserialized_types
              (ask\_sdk\_model.services.directive.error.Error
                                                                                                       (ask_sdk_model.services.game_engine.recognizer.Recognizer
              attribute), 237
                                                                                                       attribute), 249
deserialized_types
                                                                                        deserialized_types
              (ask\_sdk\_model.services.directive.header.Header
                                                                                                       (ask\_sdk\_model.services.list\_management.alexa\_list.AlexaList
                                                                                                       attribute), 250
              attribute), 237
deserialized_types
                                                                                        deserialized_types
               (ask_sdk_model.services.directive.send_directive_request.S&adDisdk_tivaRledusestvices.list_management.alexa_list_item.AlexaI
              attribute), 237
                                                                                                       attribute), 250
deserialized_types
                                                                                        deserialized_types
               (ask_sdk_model.services.directive.speak_directive.SpeakDirativesdk_model.services.list_management.alexa_list_metadata.A
              attribute), 238
                                                                                                       attribute), 251
deserialized_types
                                                                                        deserialized_types
               (ask_sdk_model.services.endpoint_enumeration.endpoint_cupsbisidk_Endpelist&aipabillists_management.alexa_lists_metadata./
                                                                                                       attribute), 251
              attribute), 238
                                                                                        deserialized_types
deserialized_types
              (ask_sdk_model.services.endpoint_enumeration.endpoint_ehaske_salkiomodelpoeusei.&adjxtintlinaguemerionReasteo_hist_item_reque
              attribute), 239
                                                                                                       attribute), 252
deserialized_types
                                                                                        deserialized_types
               (ask_sdk_model.services.endpoint_enumeration.endpoint_infasEndfkointldfb.services.list_management.create_list_request.Cr
              attribute), 240
                                                                                                       attribute), 252
deserialized_types
                                                                                        deserialized_types
               (ask_sdk_model.services.endpoint_enumeration.error.Error(ask_sdk_model.services.list_management.error.Error
                                                                                                       attribute), 253
              attribute), 240
deserialized_types
                                                                                        deserialized_types
               (ask_sdk_model.services.gadget_controller.animation_step.Aasik<u>n</u>ostk<u>n</u>ostepel.services.list_management.forbidden_error.Forbid
              attribute), 241
                                                                                                       attribute), 253
                                                                                        deserialized_types
deserialized_types
               (ask_sdk_model.services.gadget_controller.light_animation.(laistht.shlimmoided.services.list_management.links.Links
              attribute), 242
                                                                                                       attribute), 253
deserialized_types
                                                                                        deserialized_types
              (ask_sdk_model.services.gadget_controller.set_light_param@usks_&dkLightl@d.ramnitens:list_management.list_body.ListBody
              attribute), 242
                                                                                                       attribute), 254
deserialized_types
                                                                                        deserialized_types
              (ask_sdk_model.services.game_engine.deviation_recognizet(Dxkvisdkonfk@deksaizeices.list_management.list_created_event_req
              attribute), 243
                                                                                                       attribute), 254
deserialized_types
                                                                                        deserialized_types
               (ask_sdk_model.services.game_engine.event.Event
                                                                                                       (ask_sdk_model.services.list_management.list_deleted_event_req
              attribute), 244
                                                                                                       attribute), 255
                                                                                        deserialized_types
deserialized_types
              (ask_sdk_model.services.game_engine.input_event.InputEvents_sdk_model.services.list_management.list_item_body.ListIter
                                                                                                       attribute), 255
              attribute), 245
deserialized_types
                                                                                        deserialized_types
               (ask_sdk_model.services.game_engine.input_handler_event(hrskustdk_ndsketElv&entvices.list_management.list_items_created_eve
                                                                                                       attribute), 256
              attribute), 246
                                                                                        deserialized_types
deserialized_types
              (ask\_sdk\_model.services.game\_engine.pattern.Pattern
                                                                                                       (ask_sdk_model.services.list_management.list_items_deleted_eve
              attribute), 246
                                                                                                       attribute), 257
deserialized_types
                                                                                        deserialized_types
```

```
(ask_sdk_model.services.list_management.list_items_updat&dskvsdk_mqdekts&istlesspt&pdtitxafEventReglexxtnt_audience.Rel
             attribute), 258
                                                                                                    attribute), 277
                                                                                     deserialized_types
deserialized_types
              (ask_sdk_model.services.list_management.list_updated_eve(ask_splaidtUpelatiadEventRalprestanagement.alert_info.AlertI
             attribute), 261
                                                                                                    attribute), 278
deserialized_types
                                                                                     deserialized_types
              (ask_sdk_model.services.list_management.status.Status
                                                                                                   (ask_sdk_model.services.reminder_management.alert_info_spoke
              attribute), 262
                                                                                                    attribute), 278
                                                                                     deserialized_types
deserialized_types
              (ask_sdk_model.services.list_management.update_list_item(mskjusdk_Upddet/SixtVtensReemiexder_management.error.Error
              attribute), 262
                                                                                                    attribute), 279
deserialized_types
                                                                                     deserialized_types
              (ask\_sdk\_model.services.list\_management.update\_list\_request \center{Locality} \cute{Locality} \cute{Locality
             attribute), 263
                                                                                                    attribute), 279
                                                                                     deserialized_types
deserialized_types
              (ask_sdk_model.services.lwa.access_token_request.AccessToken_Redquest)del.services.reminder_management.get_reminder_re
                                                                                                    attribute), 280
             attribute), 264
deserialized_types
                                                                                     deserialized_types
              (ask_sdk_model.services.lwa.access_token_response.Access@tokersHksprondel.services.reminder_management.get_reminders_n
             attribute), 264
                                                                                                    attribute), 281
deserialized_types
                                                                                     deserialized_types
              (ask_sdk_model.services.lwa.error.Error
                                                                                                   (ask_sdk_model.services.reminder_management.push_notification
             attribute), 264
                                                                                                   attribute), 281
deserialized_types
                                                                                     deserialized_types
              (ask_sdk_model.services.monetization.error.Error
                                                                                                    (ask_sdk_model.services.reminder_management.recurrence.Recu
             attribute), 267
                                                                                                   attribute), 282
deserialized_types
                                                                                     deserialized_types
              (ask_sdk_model.services.monetization.in_skill_product.InSkidlsRroadtkctmodel.services.reminder_management.reminder.Remind
                                                                                                   attribute), 284
             attribute), 268
deserialized_types
                                                                                     deserialized_types
              (ask_sdk_model.services.monetization.in_skill_product_transcsktiodk_neopohserhi8ksllPmodudetInunsaageonesResprinsder_create
             attribute), 268
                                                                                                    attribute), 284
deserialized_types
                                                                                     deserialized_types
              (ask_sdk_model.services.monetization.in_skill_products_resposks_sdk_ShiblPeloxbrotisRe.speonisrder_management.reminder_delete
             attribute), 269
                                                                                                    attribute), 285
deserialized_types
                                                                                     deserialized_types
              (ask_sdk_model.services.monetization.metadata.Metadata (ask_sdk_model.services.reminder_management.reminder_delete
              attribute), 269
                                                                                                    attribute), 285
deserialized_types
                                                                                     deserialized_types
              (ask_sdk_model.services.monetization.result_set.ResultSet (ask_sdk_model.services.reminder_management.reminder_requestions)
              attribute), 272
                                                                                                    attribute), 287
deserialized_types
                                                                                     deserialized_types
              (ask_sdk_model.services.monetization.transactions.Transactionsk_sdk_model.services.reminder_management.reminder_respon
             attribute), 274
                                                                                                    attribute), 288
                                                                                     deserialized_types
deserialized_types
              (ask_sdk_model.services.proactive_events.create_proactive(ask_tdkequesteCsenveQesorotiveEventReagestent.reminder_started
             attribute), 275
                                                                                                   attribute), 289
deserialized_types
                                                                                     deserialized_types
              (ask_sdk_model.services.proactive_events.error.Error
                                                                                                   (ask_sdk_model.services.reminder_management.reminder_status
                                                                                                    attribute), 289
             attribute), 275
deserialized_types
                                                                                     deserialized_types
             (ask\_sdk\_model.services.proactive\_events.event.Event
                                                                                                   (ask\_sdk\_model.services.reminder\_management.reminder\_update
             attribute), 275
                                                                                                    attribute), 290
```

deserialized_types

deserialized_types

```
(ask_sdk_model.services.reminder_management.spoken_text(dspkoketkTextodel.ui.ask_for_permissions_consent_card.AskForPer
                   attribute), 290
                                                                                                                                           attribute), 306
deserialized_types
                                                                                                                       deserialized_types (ask_sdk_model.ui.card.Card
                    (ask_sdk_model.services.reminder_management.trigger.Triggeribute), 307
                   attribute), 291
                                                                                                                       deserialized_types
deserialized_types
                                                                                                                                            (ask_sdk_model.ui.image.Image
                                                                                                                                                                                                                      attribute),
                   (ask\_sdk\_model.services.skill\_messaging.error.Error
                                                                                                                                           307
                   attribute), 292
                                                                                                                       deserialized_types
deserialized_types
                                                                                                                                            (ask_sdk_model.ui.link_account_card.LinkAccountCard
                   (ask_sdk_model.services.skill_messaging.send_skill_messagittgibutq)e&QSendSkillMessagingRequest
                   attribute), 293
                                                                                                                       deserialized_types
deserialized_types
                                                                                                                                            (ask_sdk_model.ui.output_speech.OutputSpeech
                   (ask\_sdk\_model.services.ups.error.Error
                                                                                                                                           attribute), 308
                   attribute), 295
                                                                                                                       deserialized_types
deserialized_types
                                                                                                                                           (ask\_sdk\_model.ui.plain\_text\_output\_speech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech.PlainTextOutputSpeech
                    (ask_sdk_model.services.ups.phone_number.PhoneNumber attribute), 308
                                                                                                                       deserialized_types
                   attribute), 295
                                                                                                                                            (ask_sdk_model.ui.reprompt.Reprompt
deserialized_types
                                                                                                                                                                                                                                     at-
                    (ask_sdk_model.session.Session
                                                                                                                                           tribute), 309
                                                                                              attribute),
                                                                                                                       deserialized_types
deserialized_types
                                                                                                                                           (ask\_sdk\_model.ui.simple\_card.SimpleCard
                   (ask_sdk_model.session_ended_error.SessionEndedError attribute), 310
                   attribute), 327
                                                                                                                       deserialized_types
deserialized_types
                                                                                                                                           (ask\_sdk\_model.ui.ssml\_output\_speech.SsmlOutputSpeech
                    (ask_sdk_model.session_ended_request.SessionEndedRequesttribute), 310
                   attribute), 328
                                                                                                                       deserialized_types
deserialized_types
                                                                                                                                            (ask_sdk_model.ui.standard_card.StandardCard
                   (ask_sdk_model.session_resumed_request.SessionResumedRatpibate), 310
                   attribute), 329
                                                                                                                       deserialized_types (ask_sdk_model.user.User at-
deserialized_types (ask_sdk_model.slot.Slot at-
                                                                                                                                           tribute), 332
                    tribute), 330
                                                                                                                       deserialized_types
deserialized_types
                                                                                                                                           (ask_sdk_model_runtime.lwa.access_token_request.AccessToken]
                   (ask_sdk_model.slu.entityresolution.resolution.Resolution attribute), 56
                   attribute), 304
                                                                                                                       deserialized_types
deserialized_types
                                                                                                                                            (ask_sdk_model_runtime.lwa.access_token_response.AccessToke
                   (ask_sdk_model.slu.entityresolution.resolutions.Resolutionsattribute), 56
                   attribute), 304
                                                                                                                       deserialized_types
deserialized_types
                                                                                                                                           (ask\_sdk\_model\_runtime.lwa.error.Error
                    (ask_sdk_model.slu.entityresolution.status.Status
                                                                                                                                           attribute), 57
                   attribute), 304
                                                                                                                       deserialized_types
deserialized_types
                                                                                                                                           (ask_smapi_model.v1.bad_request_error.BadRequestError
                    (ask_sdk_model.slu.entityresolution.value.Value
                                                                                                                                           attribute), 540
                   attribute), 305
                                                                                                                       deserialized_types
                                                                                                                                           (ask_smapi_model.v1.catalog.create_content_upload_url_reques
deserialized_types
                   (ask_sdk_model.slu.entityresolution.value_wrapper.ValueWrappibnte), 367
                                                                                                                       deserialized_types
deserialized_types (ask_sdk_model.status.Status
                                                                                                                                           (ask_smapi_model.v1.catalog.create_content_upload_url_respon
                   attribute), 330
                                                                                                                                           attribute), 368
deserialized_types
                                                                                                                       deserialized_types
                    (ask\_sdk\_model.supported\_interfaces. SupportedInterfaces\ (ask\_smapi\_model.v1.catalog.presigned\_upload\_part\_items. President and all of the properties of 
                   attribute), 331
                                                                                                                                           attribute), 368
deserialized_types (ask_sdk_model.task.Task at- deserialized_types
                   tribute), 332
                                                                                                                                           (ask_smapi_model.v1.catalog.upload.catalog_upload_base.Catal
```

deserialized_types

```
deserialized_types
                                                       deserialized_types
         (ask_smapi_model.v1.catalog.upload.content_upload_file_s(unk<u>n</u>csry.cpo<u>in</u>veoalElploadsFilleSalvixed<u>tr</u>yublishing_information.Loca
         attribute), 363
                                                                attribute), 383
deserialized_types
                                                       deserialized_types
         (ask_smapi_model.v1.catalog.upload.get_content_upload_reaplorsset.GpatGondehtUplepcotRekptphaee_pricing.MarketplacePricin
         attribute), 364
                                                                attribute), 384
deserialized_types
                                                       deserialized_types
         (ask_smapi_model.v1.catalog.upload.location.Location
                                                                (ask_smapi_model.v1.isp.price_listing.PriceListing
         attribute), 365
                                                                attribute), 384
                                                       deserialized_types
deserialized_types
         (ask_smapi_model.v1.catalog.upload.pre_signed_url.PreSignusHL\shapi_model.v1.isp.privacy_and_compliance.PrivacyAndC
         attribute), 365
                                                                attribute), 385
deserialized_types
                                                       deserialized_types
         (ask_smapi_model.v1.catalog.upload.pre_signed_url_item.RassigsmealbirHtadel.v1.isp.product_response.ProductResponse
         attribute), 366
                                                                attribute), 385
deserialized_types
                                                       deserialized_types
         (ask_smapi_model.v1.catalog.upload.upload_ingestion_steptdsploadpastedpisp.publishing_information.PublishingInfor
         attribute), 366
                                                                attribute), 386
                                                       deserialized_types
deserialized_types
         (ask_smapi_model.v1.error.Error
                                           attribute),
                                                                (ask_smapi_model.v1.isp.subscription_information.Subscription1
         540
                                                                attribute), 388
deserialized_types
                                                       deserialized_types
         (ask_smapi_model.v1.isp.associated_skill_response.Associatas//SkilhRpiponxtel.v1.isp.summary_marketplace_pricing.Summa
         attribute), 369
                                                                attribute), 389
deserialized_types
                                                       deserialized_types
         (ask_smapi_model.v1.isp.create_in_skill_product_request.Quextte!n&kjil<u>[P</u>moduLtHeispessummary_price_listing.SummaryPriceL
         attribute), 369
                                                                attribute), 389
                                                       deserialized_types
deserialized_types
         (ask_smapi_model.v1.isp.custom_product_prompts.Custom_RacklustrRupin_mputsdel.v1.isp.tax_information.TaxInformation
         attribute), 370
                                                                attribute), 390
deserialized_types
                                                       deserialized_types
         (ask_smapi_model.v1.isp.in_skill_product_definition.InSkill(Arxk<u>l</u>usatDpefinitiodel.v1.isp.update_in_skill_product_request.Updat
         attribute), 379
                                                                attribute), 390
deserialized_types
                                                       deserialized_types
         (ask_smapi_model.v1.isp.in_skill_product_definition_responsedlingshidproductDefihintohRusponseattribute),
         attribute), 379
                                                                540
deserialized_types
                                                       deserialized_types
         (ask_smapi_model.v1.isp.in_skill_product_summary.InSkillPaskduxntSupin_muxyel.v1.links.Links
                                                                                                   attribute),
         attribute), 380
                                                                541
deserialized_types
                                                       deserialized_types
         (ask_smapi_model.v1.isp.in_skill_product_summary_respon.sxs.ltn.Shidl,H<sub>r.</sub>ordordeS.vrluskiHyRæsponts<u>e</u>linking.account_linking_requ
         attribute), 381
                                                                attribute), 393
deserialized_types
                                                       deserialized_types
         (ask_smapi_model.v1.isp.isp_summary_links.IspSummaryLinksk_smapi_model.v1.skill.account_linking.account_linking_resp
                                                                attribute), 394
         attribute), 381
deserialized_types
                                                       deserialized_types
         (ask_smapi_model.v1.isp.list_in_skill_product.ListInSkillProduct_smapi_model.v1.skill.alexa_hosted.hosted_skill_info.Hosted
         attribute), 382
                                                                attribute), 395
deserialized_types
                                                       deserialized_types
         (ask_smapi_model.v1.isp.list_in_skill_product_response.List(InsEk_shlRnpid_mooRlesponseill.alexa_hosted.hosted_skill_metadata.H
         attribute), 382
                                                                attribute), 395
deserialized_types
                                                       deserialized_types
```

attribute), 382

(ask_smapi_model.v1.isp.localized_privacy_and_complianc@aklocatiapil_PnivaludyAlnslGthmpdiam_theosted.hosted_skill_permission.

```
deserialized_types
                                                                                       deserialized_types
              (ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_repositosty_smaqein_inastdlskilkReijiositiony@ubdioutids_failure.Publi
              attribute), 397
                                                                                                      attribute), 408
deserialized_types
                                                                                       deserialized_types
              (ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_repositosty_smaqeininastelistHkilled&kitiflRetpositovy&vetbaukintgListfo.Rev
              attribute), 397
                                                                                                      attribute), 408
                                                                                       deserialized_types
deserialized_types
              (ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_repositosty_smaqeintinubsleteqluskilHasstaftiskitlRepositosrytCaektionatiahfResuum
              attribute), 398
                                                                                                      attribute), 409
deserialized_types
                                                                                       deserialized_types
              (ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_repositosty_infapii_osteal&killRkpibxitoay&nfikill_request.CreateSkillReque
              attribute), 398
                                                                                                      attribute), 517
deserialized_types
                                                                                       deserialized_types
              (ask_smapi_model.v1.skill.beta_test.beta_test.BetaTest
                                                                                                      (ask_smapi_model.v1.skill.create_skill_response.CreateSkillResp
              attribute), 402
                                                                                                      attribute), 518
deserialized_types
                                                                                       deserialized_types
              (ask\_smapi\_model.v1.skill.beta\_test.test\_body.TestBody
                                                                                                      (ask_smapi_model.v1.skill.create_skill_with_package_request.Cr
              attribute), 403
                                                                                                      attribute), 518
                                                                                       deserialized_types
deserialized_types
              (ask_smapi_model.v1.skill.beta_test.testers.list_testers_respanse_kinafesturxResphnkill.evaluations.dialog_act.DialogAct
              attribute), 400
                                                                                                      attribute), 410
deserialized_types
                                                                                       deserialized_types
              (ask\_smapi\_model.v1.skill.beta\_test.testers.tester.Tester
                                                                                                      (ask_smapi_model.v1.skill.evaluations.intent.Intent
                                                                                                      attribute), 411
              attribute), 400
deserialized_types
                                                                                       deserialized_types
              (ask_smapi_model.v1.skill.beta_test.testers.tester_with_detaidsk<u>Te</u>ssrapWithDdediid3.skill.evaluations.multi_turn.MultiTurn
              attribute), 401
                                                                                                      attribute), 411
deserialized_types
                                                                                       deserialized_types
              (ask_smapi_model.v1.skill.beta_test.testers.testers_list.Testersdist.mapi_model.v1.skill.evaluations.profile_nlu_request.Profile
              attribute), 401
                                                                                                      attribute), 412
deserialized_types
                                                                                       deserialized_types
              (ask_smapi_model.v1.skill.build_details.BuildDetails
                                                                                                      (ask_smapi_model.v1.skill.evaluations.profile_nlu_response.Profi
              attribute), 516
                                                                                                      attribute), 412
deserialized_types
                                                                                       deserialized_types
              (ask_smapi_model.v1.skill.build_step.BuildStep
                                                                                                      (ask_smapi_model.v1.skill.evaluations.profile_nlu_selected_inten
              attribute), 516
                                                                                                      attribute), 413
deserialized_types
                                                                                       deserialized_types
              (ask_smapi_model.v1.skill.certification.certification_responsale_stifiquitionslespednskill.evaluations.resolutions_per_authority
              attribute), 404
                                                                                                      attribute), 414
deserialized_types
                                                                                       deserialized_types
              (ask_smapi_model.v1.skill.certification.certification_result.Caskifwatipi_Meodel.v1.skill.evaluations.resolutions_per_authority
              attribute), 404
                                                                                                      attribute), 414
deserialized_types
                                                                                       deserialized_types
              (ask_smapi_model.v1.skill.certification.certification_summarcss estuitionitium alunnum land level until level unti
                                                                                                      attribute), 415
              attribute), 405
deserialized_types
                                                                                       deserialized_types
              (ask_smapi_model.v1.skill.certification.distribution_info.Di&tribusinapifonodel.v1.skill.evaluations.slot.Slot
                                                                                                      attribute), 415
              attribute), 406
deserialized_types
                                                                                       deserialized_types
              (ask_smapi_model.v1.skill.certification.estimation_update.Hstsikn_ostimonqlippthondeel.v1.skill.evaluations.slot_resolutions.SlotResol
                                                                                                      attribute), 416
              attribute), 406
                                                                                       deserialized_types
deserialized_types
              (ask_smapi_model.v1.skill.certification.list_certifications_re(spekn_senhipsi_GnordfilesethasksRessports_eresponse.ExportResponse
```

attribute), 518

```
deserialized_types
                                                                                                                            deserialized_types
                     (ask_smapi_model.v1.skill.export_response_skill.ExportRestasks_skilpi_model.v1.skill.interaction_model.catalog.catalog_sta
                    attribute), 519
                                                                                                                                                 attribute), 426
deserialized_types
                                                                                                                            deserialized_types
                     (ask_smapi_model.v1.skill.history.confidence.Confidence
                                                                                                                                                (ask_smapi_model.v1.skill.interaction_model.catalog.definition_c
                    attribute), 416
                                                                                                                                                 attribute), 426
deserialized_types
                                                                                                                            deserialized_types
                    (ask_smapi_model.v1.skill.history.dialog_act.DialogAct
                                                                                                                                                 (ask_smapi_model.v1.skill.interaction_model.catalog.last_update
                    attribute), 417
                                                                                                                                                 attribute), 427
deserialized_types
                                                                                                                            deserialized_types
                     (ask_smapi_model.v1.skill.history.intent.Intent
                                                                                                                                                 (ask_smapi_model.v1.skill.interaction_model.catalog.list_catalog
                    attribute), 418
                                                                                                                                                 attribute), 428
deserialized_types
                                                                                                                            deserialized_types
                    (ask\_smapi\_model.v1.skill.history.intent\_request.IntentRequestk\_smapi\_model.v1.skill.interaction\_model.catalog.update\_request.IntentRequestk\_smapi\_model.v1.skill.history.intent\_request.IntentRequestk\_smapi\_model.v1.skill.history.intent\_request.IntentRequestk\_smapi\_model.v1.skill.history.intent\_request.IntentRequestk\_smapi\_model.v1.skill.history.intent\_request.IntentRequestk\_smapi\_model.v1.skill.history.intent\_request.IntentRequestk\_smapi\_model.v1.skill.history.intent\_request.IntentRequestk\_smapi\_model.v1.skill.history.intent\_request.IntentRequestk\_smapi\_model.v1.skill.history.intent\_request.IntentRequestk\_smapi\_model.v1.skill.history.intent\_request.IntentRequestk\_smapi\_model.v1.skill.history.intent\_request.IntentRequestk\_smapi\_model.v1.skill.history.intentRequestk\_smapi\_model.v1.skill.history.intentRequestk\_smapi\_model.v1.skill.history.intentRequestk\_smapi\_model.v1.skill.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.history.
                                                                                                                                                 attribute), 428
                    attribute), 419
deserialized_types
                                                                                                                            deserialized_types
                    (ask_smapi_model.v1.skill.history.intent_requests.IntentRequests_smapi_model.v1.skill.interaction_model.catalog_value_supj
                    attribute), 421
                                                                                                                                                 attribute), 434
deserialized_types
                                                                                                                            deserialized_types
                     (ask_smapi_model.v1.skill.history.slot.Slot
                                                                                                                                                 (ask_smapi_model.v1.skill.interaction_model.dialog.Dialog
                    attribute), 422
                                                                                                                                                 attribute), 435
deserialized_types
                                                                                                                            deserialized_types
                     (ask_smapi_model.v1.skill.image_attributes.ImageAttributes(ask_smapi_model.v1.skill.interaction_model.dialog_intents.Dial
                    attribute), 519
                                                                                                                                                 attribute), 435
deserialized_types
                                                                                                                            deserialized_types
                     (ask\_smapi\_model.v1.skill.image\_dimension.ImageDimensi(vask\_smapi\_model.v1.skill.interaction\_model.dialog\_intents\_productions(skill.interaction\_model.dialog\_intents\_productions(skill.interaction\_model.dialog_intents\_productions(skill.interaction\_model.dialog_intents\_productions(skill.interaction\_model.dialog_intents))
                    attribute), 520
                                                                                                                                                 attribute), 436
deserialized_types
                                                                                                                            deserialized_types
                    (ask_smapi_model.v1.skill.image_size.ImageSize
                                                                                                                                                 (ask_smapi_model.v1.skill.interaction_model.dialog_prompts.Dia
                    attribute), 520
                                                                                                                                                 attribute), 436
                                                                                                                            deserialized_types
deserialized_types
                     (ask\_smapi\_model.v1.skill.import\_response.ImportRespons \& ask\_smapi\_model.v1.skill.interaction\_model.dialog\_slot\_items.Line (ask\_smapi\_model.v1.skill.import\_response.ImportResponse.Line (ask\_smapi\_model.v1.skill.import\_response.Line (ask\_smapi\_model.v1.skill
                    attribute), 521
                                                                                                                                                 attribute), 437
deserialized_types
                                                                                                                            deserialized_types
                     (ask_smapi_model.v1.skill.import_response_skill.ImportResposks_s8killi_model.v1.skill.interaction_model.has_entity_resoluti
                                                                                                                                                 attribute), 438
                    attribute), 522
deserialized_types
                                                                                                                            deserialized_types
                    (ask\_smapi\_model.v1.skill.instance.Instance
                                                                                                                                                 (ask\_smapi\_model.v1.skill.interaction\_model.intent.Intent
                    attribute), 522
                                                                                                                                                 attribute), 438
deserialized_types
                                                                                                                            deserialized_types
                     (ask_smapi_model.v1.skill.interaction_model.catalog.catalog<u>usllefiniujoin n</u>oodplus.CskillloigdDefination_Onatplut.interaction_model_
                    attribute), 423
                                                                                                                                                 attribute), 439
deserialized_types
                                                                                                                            deserialized_types
                     (ask_smapi_model.v1.skill.interaction_model.catalog.cataloguskntsinyxpintnlogElwiltyskill.interaction_model.interaction_model_
                    attribute), 424
                                                                                                                                                 attribute), 439
deserialized_types
                                                                                                                            deserialized_types
                     (ask_smapi_model.v1.skill.interaction_model.catalog.catalog<u>ushppont@pait</u>onboglhlpult.skill.interaction_model.is_greater_than.IsC
                    attribute), 424
                                                                                                                                                 attribute), 440
deserialized_types
                                                                                                                            deserialized_types
                     (ask_smapi_model.v1.skill.interaction_model.catalog.cataldgishenn@piahogdlehn1.skill.interaction_model.is_greater_than_or
                    attribute), 425
                                                                                                                                                 attribute), 440
deserialized_types
                                                                                                                            deserialized_types
                     (ask_smapi_model.v1.skill.interaction_model.catalog.catalo<mark>g.ske.spmnpe_Gutdeb.gR.eskpillrist</mark>eraction_model.is_in_duration.IsIn
```

attribute), 425

```
deserialized_types
deserialized_types
              (ask\_smapi\_model.v1.skill.interaction\_model.is\_in\_set.IsIn \c Sask\_smapi\_model.v1.skill.interaction\_model.version.list\_responsion \c Sask\_smapi\_model.v1.skill.interaction\_model.v1.skill.interaction\_model.v1.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_model.v2.skill.interaction\_mo
                                                                                                       attribute), 431
              attribute), 441
deserialized_types
                                                                                        deserialized_types
              (ask_smapi_model.v1.skill.interaction_model.is_less_than.Ishels_Thapi_model.v1.skill.interaction_model.version.value_schel
              attribute), 442
                                                                                                      attribute), 432
                                                                                        deserialized_types
deserialized_types
              (ask_smapi_model.v1.skill.interaction_model.is_less_than_&askqsmhyto_hbds$\ThaskUtEvipenliEvion_model.version.value_scher
              attribute), 442
                                                                                                       attribute), 432
deserialized_types
                                                                                        deserialized_types
              (ask_smapi_model.v1.skill.interaction_model.is_not_in_dur(atikn_shshipt<u>I</u>mDahalticInskill.interaction_model.version.version_da
              attribute), 443
                                                                                                       attribute), 432
deserialized_types
                                                                                        deserialized_types
              (ask_smapi_model.v1.skill.interaction_model.is_not_in_set.(sNotsn&pi_model.v1.skill.interaction_model.version.version_iten
              attribute), 443
                                                                                                       attribute), 433
deserialized_types
                                                                                        deserialized_types
              (ask_smapi_model.v1.skill.interaction_model.language_modeklLanguageinbodeklv1.skill.interface_definition.InterfaceDefinition
              attribute), 444
                                                                                                       attribute), 523
                                                                                        deserialized_types
deserialized_types
              (ask\_smapi\_model.v1.skill.interaction\_model.prompt.Promptask\_smapi\_model.v1.skill.interface\_intent.InterfaceIntent
              attribute), 444
                                                                                                       attribute), 523
deserialized_types
                                                                                        deserialized_types
              (ask_smapi_model.v1.skill.interaction_model.prompt_items.(Paskmptlapin_smodel.v1.skill.last_update_request.LastUpdateRequest
              attribute), 445
                                                                                                       attribute), 524
deserialized_types
                                                                                        deserialized_types
              (ask_smapi_model.v1.skill.interaction_model.slot_definition(&kt_tMegiupitionodel.v1.skill.list_skill_response.ListSkillResponse
              attribute), 445
                                                                                                       attribute), 524
deserialized_types
                                                                                        deserialized_types
              (ask_smapi_model.v1.skill.interaction_model.slot_type.SlotTypk_smapi_model.v1.skill.manifest.alexa_for_business_apis.Alex
              attribute), 446
                                                                                                       attribute), 449
                                                                                        deserialized_types
deserialized_types
              (ask_smapi_model.v1.skill.interaction_model.slot_validationa<mark>$kot\nhiplintima</mark>del.v1.skill.manifest.alexa_for_business_interface
              attribute), 447
                                                                                                       attribute), 450
deserialized_types
                                                                                        deserialized_types
              (ask_smapi_model.v1.skill.interaction_model.value_catalog(\text{Mskilpshiapilogodel.v1.skill.manifest.alexa_presentation_apl_inter
                                                                                                      attribute), 450
              attribute), 448
                                                                                        deserialized_types
deserialized_types
              (ask_smapi_model.v1.skill.interaction_model.value_supplierdkklua@upplinodel.v1.skill.manifest.audio_interface.AudioInterfa
              attribute), 448
                                                                                                       attribute), 450
deserialized_types
                                                                                        deserialized_types
              (ask_smapi_model.v1.skill.interaction_model.version.catalo<mark>g_skp_dmapCanddgUyldski</mark>dl.manifest.connections.Connections
              attribute), 429
                                                                                                       attribute), 451
deserialized_types
                                                                                        deserialized_types
              (ask_smapi_model.v1.skill.interaction_model.version.catalo@askakmay@atabaleValluskill.manifest.connections_payload.Connec
                                                                                                       attribute), 451
              attribute), 429
deserialized_types
                                                                                        deserialized_types
              (ask_smapi_model.v1.skill.interaction_model.version.catalo<u>grskersimpid</u>atadehtdlogkNersimiPest&ritical_data_handling.Critic
                                                                                                       attribute), 452
              attribute), 430
deserialized_types
                                                                                        deserialized_types
              (ask_smapi_model.v1.skill.interaction_model.version.input<u>(saskro</u>smlappiutSkordxdev1.skill.manifest.custom_apis.CustomApis
              attribute), 430
                                                                                                       attribute), 452
                                                                                        deserialized_types
deserialized_types
              (ask_smapi_model.v1.skill.interaction_model.version.links.lunks_smapi_model.v1.skill.manifest.custom_connections.Custom
                                                                                                       attribute), 453
              attribute), 431
```

```
deserialized_types
                                                     deserialized_types
         (ask_smapi_model.v1.skill.manifest.custom_interface.Customakkterfaurpi_model.v1.skill.manifest.localized_music_info.Localiz
        attribute), 453
                                                              attribute), 481
                                                     deserialized_types
deserialized_types
         (ask_smapi_model.v1.skill.manifest.display_interface.Displaysht_enfaqei_model.v1.skill.manifest.manifest_gadget_support.Ma
        attribute), 454
                                                              attribute), 481
deserialized_types
                                                     deserialized_types
        (ask_smapi_model.v1.skill.manifest.event_name.EventName(ask_smapi_model.v1.skill.manifest.music_alias.MusicAlias
        attribute), 462
                                                              attribute), 482
                                                     deserialized_types
deserialized_types
         (ask_smapi_model.v1.skill.manifest.event_publications.Even(tBkb_kinationsnodel.v1.skill.manifest.music_apis.MusicApis
        attribute), 471
                                                              attribute), 482
deserialized_types
                                                     deserialized_types
        (ask_smapi_model.v1.skill.manifest.flash_briefing_apis.Flashakkiesfimephipinodel.v1.skill.manifest.music_capability.MusicCapa
        attribute), 472
                                                              attribute), 483
deserialized_types
                                                     deserialized_types
        attribute), 473
                                                              attribute), 484
                                                     deserialized_types
deserialized_types
         (ask_smapi_model.v1.skill.manifest.game_engine_interface.(Gslkn_sExagrin_enhoteofaxdeskill.manifest.music_feature.MusicFeature
        attribute), 474
                                                              attribute), 484
deserialized_types
                                                     deserialized_types
        (ask_smapi_model.v1.skill.manifest.health_alias.HealthAlia(ask_smapi_model.v1.skill.manifest.music_interfaces.MusicInterf
        attribute), 474
                                                              attribute), 484
deserialized_types
                                                     deserialized_types
         (ask_smapi_model.v1.skill.manifest.health_apis.HealthApis(ask_smapi_model.v1.skill.manifest.music_request.MusicRequest
        attribute), 475
                                                              attribute), 485
                                                     deserialized_types
deserialized_types
        (ask_smapi_model.v1.skill.manifest.health_interface.Health\interfsve.pi_model.v1.skill.manifest.music_wordmark.MusicWord
                                                              attribute), 485
        attribute), 476
                                                     deserialized_types
deserialized_types
         (ask\_smapi\_model.v1.skill.manifest.health\_request.HealthReast\_smapi\_model.v1.skill.manifest.permission\_items.Permission
        attribute), 476
                                                              attribute), 485
deserialized_types
                                                     deserialized_types
         (ask_smapi_model.v1.skill.manifest.house_hold_list.HouseHaskLismapi_model.v1.skill.manifest.region.Region
        attribute), 476
                                                              attribute), 487
deserialized_types
                                                     deserialized_types
        (ask\_smapi\_model.v1.skill.manifest.interface.Interface
                                                              (ask_smapi_model.v1.skill.manifest.request.Request
        attribute), 477
                                                              attribute), 487
deserialized_types
                                                     deserialized_types
         (ask_smapi_model.v1.skill.manifest.lambda_endpoint.Lamb(lastk:n_dynaipit_model.v1.skill.manifest.skill_manifest.SkillManifest
        attribute), 478
                                                              attribute), 489
deserialized_types
                                                     deserialized_types
        (ask_smapi_model.v1.skill.manifest.lambda_region.Lambda@eski@mapi_model.v1.skill.manifest.skill_manifest_apis.SkillMan
                                                              attribute), 490
        attribute), 478
deserialized_types
                                                     deserialized_types
         (ask_smapi_model.v1.skill.manifest.localized_flash_briefing(<u>aistfo.shaqnilipedtfdusHBskidfingInffe</u>st.skill_manifest_custom_task.S
        attribute), 479
                                                              attribute), 490
deserialized_types
                                                     deserialized_types
         (ask_smapi_model.v1.skill.manifest.localized_flash_briefing(assfosintenpis_hoodellizedfldslmBrinefersg.bkfbll_termsnifest_endpoint.Skill.
        attribute), 480
                                                              attribute), 490
                                                     deserialized_types
deserialized_types
         (ask_smapi_model.v1.skill.manifest.localized_health_info.L\asklizedlifealthdife.v1.skill.manifest.skill_manifest_envelope.Skill.
```

attribute), 480

```
deserialized_types
                                                     deserialized_types
         (ask_smapi_model.v1.skill.manifest.skill_manifest_events.SkitkMamifestEventsl.v1.skill.resource_import_status.ResourceImpo
        attribute), 492
                                                               attribute), 526
deserialized_types
                                                     deserialized_types
         (ask_smapi_model.v1.skill.manifest.skill_manifest_localized_gskiyanypinatoelethpliskidexskillMænifæstlasRækiqeatPoSvatuyAndCo.
        attribute), 492
                                                               attribute), 527
deserialized_types
                                                     deserialized_types
        (ask_smapi_model.v1.skill.manifest.skill_manifest_localized_askbsislaipsig_ninofbehrdtickillSkithMatiifestbbcxdizeckPutilish_infehrfibex
        attribute), 493
                                                               attribute), 506
deserialized_types
                                                      deserialized_types
         (ask_smapi_model.v1.skill.manifest.skill_manifest_privacy_(andk_somaplianodeskillMaitlifantRaivianysAaldsGo<u>o</u>mpsljamsse.AlexaResp
        attribute), 494
                                                               attribute), 506
deserialized_types
                                                     deserialized_types
        (ask_smapi_model.v1.skill.manifest.skill_manifest_publishin(g_stroporapiti_mo&klltMskilfestHnublitshinsg1hfsoamasipoanse_content.A
        attribute), 496
                                                               attribute), 507
deserialized_types
                                                      deserialized_types
        (ask_smapi_model.v1.skill.manifest.smart_home_apis.SmartHshnethpipi_model.v1.skill.simulations.device.Device
                                                               attribute), 507
        attribute), 496
                                                     deserialized_types
deserialized_types
         (ask_smapi_model.v1.skill.manifest.up_channel_items.UpChashreliheapis_model.v1.skill.simulations.input.Input
        attribute), 497
                                                               attribute), 508
deserialized_types
                                                     deserialized_types
        (ask_smapi_model.v1.skill.manifest.video_apis.VideoApis (ask_smapi_model.v1.skill.simulations.invocation_request.Invoca
        attribute), 498
                                                               attribute), 508
deserialized_types
                                                      deserialized_types
         (ask_smapi_model.v1.skill.manifest.video_apis_locale.Vide@Aşkskmaqle_model.v1.skill.simulations.invocation_response.Invoc
        attribute), 499
                                                               attribute), 508
                                                     deserialized_types
deserialized_types
        (ask_smapi_model.v1.skill.manifest.video_app_interface.VideoApphaneirfacedel.v1.skill.simulations.metrics.Metrics
        attribute), 499
                                                               attribute), 509
                                                      deserialized_types
deserialized_types
         (ask_smapi_model.v1.skill.manifest.video_catalog_info.Vid@a&atssbagfinfmodel.v1.skill.simulations.session.Session
        attribute), 499
                                                               attribute), 509
deserialized_types
                                                     deserialized_types
         (ask_smapi_model.v1.skill.manifest.video_country_info.Vid&askousmaylinfaodel.v1.skill.simulations.simulation_result.Simulati
        attribute), 500
                                                              attribute), 510
deserialized_types
                                                      deserialized_types
        (ask_smapi_model.v1.skill.manifest.video_region.VideoRegi(ask_smapi_model.v1.skill.simulations.simulations_api_request.S
        attribute), 500
                                                               attribute), 510
deserialized_types
                                                     deserialized_types
         attribute), 502
                                                               attribute), 511
deserialized_types
                                                     deserialized_types
        (ask_smapi_model.v1.skill.metrics.get_metric_data_responsasketMnetpic_DoubeResponsisk.skill_interaction_model.SkillInteractio
                                                               attribute), 528
        attribute), 502
deserialized_types
                                                      deserialized_types
         (ask_smapi_model.v1.skill.private.list_private_distribution<u>(asskousntapie_supoolusk:MisstlPthvskitlDiusteilautiiwmnApowodueltsRasupsa6kie</u>lUni
        attribute), 505
                                                               attribute), 528
deserialized_types
                                                     deserialized_types
         (ask_smapi_model.v1.skill.private.private_distribution_accoank_Brivate_DistributionkAlcskilhtstatus.SkillStatus
        attribute), 505
                                                               attribute), 529
                                                      deserialized_types
deserialized_types
         (ask_smapi_model.v1.skill.regional_ssl_certificate.Regional@ssk_certifipiate.odel.v1.skill.skill_summary.SkillSummary
```

attribute), 530

```
deserialized_types
                                                                                                                                                                                       tribute), 387
                          (ask_smapi_model.v1.skill.ssl_certificate_payload\SSL&2cotificateP(igkkaslmapi_model.v1.skill.history.publication_status.Publ
                         attribute), 531
                                                                                                                                                                                       attribute), 422
deserialized_types
                                                                                                                                                             development (ask_smapi_model.v1.skill.metrics.stage_for_metric.Stage
                          (ask_smapi_model.v1.skill.standardized_error.StandardizedEntrobute), 504
                         attribute), 531
                                                                                                                                                            development (ask_smapi_model.v1.stage_type.StageType
                                                                                                                                                                                       attribute), 541
deserialized_types
                          (ask_smapi_model.v1.skill.submit_skill_for_certification1_organest\S(dshi\text{skill}Fom@ehalfvdastagRevplestpe.StageV2Type
                          attribute), 533
                                                                                                                                                                                       attribute), 541
deserialized_types
                                                                                                                                                            DeviationRecognizer
                                                                                                                                                                                                                                                                   (class
                          (ask_smapi_model.v1.skill.update_skill_with_package_requask_lspll_am&kidl.WathRaskggptRe_qngstne.deviation_recognizer),
                          attribute), 533
                                                                                                                                                                                        243
deserialized_types
                                                                                                                                                            Device (class in ask_sdk_model.device), 313
                          (ask_smapi_model.v1.skill.upload_response.Uplo@dReispon(selass in ask_smapi_model.v1.skill.simulations.device),
                          attribute), 534
deserialized_types
                                                                                                                                                             DEVICE_COMMUNICATION_ERROR
                          (ask_smapi_model.v1.skill.validation_details.ValidationDet@dsk_sdk_model.interfaces.system.error_type.ErrorType
                          attribute), 537
                                                                                                                                                                                       attribute), 217
                                                                                                                                                            DEVICE_COMMUNICATION_ERROR
deserialized_types
                          (ask_smapi_model.v1.skill.validation_endpoint.ValidationEndslogs@lk_model.session_ended_error_type.SessionEndedErrorTy
                         attribute), 537
                                                                                                                                                                                       attribute), 327
deserialized_types
                                                                                                                                                             device_id_keygen()
                                                                                                                                                                                                                                                                                                module
                          (ask_smapi_model.v1.skill.validation_feature.ValidationFeatusk_sdk_s3.object_keygen), 52
                                                                                                                                                            device_id_partition_keygen() (in module
                         attribute), 538
                                                                                                                                                                                       ask_sdk_dynamodb.partition_keygen), 36
deserialized_types
                          (ask_smapi_model.v1.skill.validations.response_validation_Response_Validation
                          attribute), 512
                                                                                                                                                                                       (ask_sdk_model.services.ups.error_code.ErrorCode
                                                                                                                                                                                       attribute), 295
deserialized_types
                          (ask_smapi_model.v1.skill.validations.validations_epi_request_ValidationsAipiRequest_t
                                                                                                                                                                                                                                                                                 (class
                          attribute), 513
                                                                                                                                                                                        ask_sdk_model.services.device_address.device_address_service_
deserialized_types
                                                                                                                                                                                        234
                          (ask_smapi_model.v1.skill.validations.validations_pepi_responses_falldettiops:Aprißessponse
                         attribute), 514
                                                                                                                                                                                       (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
deserialized_types
                                                                                                                                                                                        attribute), 466
                          (ask_smapi_model.v1.skill.validations.validations<u>papi</u>læsp(æthses_iæsakk. <u>Valiadpoitions</u>AqliRk.spköhlseRæsadtion_model.dialog),
                         attribute), 514
deserialized_types
                                                                                                                                                            Dialog_ConfirmIntent
                          (ask\_smapi\_model.v1.skill.withdraw\_request.WithdrawRequ(\textit{esst}k\_smapi\_model.v1.skill.evaluations.dialog\_act\_type.DialogAct_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_
                          attribute), 538
                                                                                                                                                                                       attribute), 410
deserialized_types
                                                                                                                                                            Dialog_ConfirmIntent
                          (ask_smapi_model.v1.vendor_management.vendor.Vendor (ask_smapi_model.v1.skill.history.dialog_act_name.DialogActNa
                          attribute), 539
                                                                                                                                                                                       attribute), 418
deserialized_types
                                                                                                                                                            Dialog_ConfirmSlot
                          (ask\_smapi\_model.v1.vendor\_management.vendors.Vendors(ask\_smapi\_model.v1.skill.evaluations.dialog\_act\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.Di
                                                                                                                                                                                       attribute), 410
                          attribute), 539
                                                                                                                                                  in Dialog_ConfirmSlot
Destination
                                                                                       (class
                         ask_sdk_model.interfaces.amazonpay.model.response.destin(atskn)mapi_model.v1.skill.history.dialog_act_name.DialogActNa
                                                                                                                                                                                       attribute), 418
Destination
                                                                                                                                                 in Dialog_ElicitSlot
                                                                                      (class
                         ask\_sdk\_model.interfaces.amazonpay.model.v1.destination) (ask\_smapi\_model.v1.skill.evaluations.dialog\_act\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_type.DialogAct\_typ
                                                                                                                                                                                       attribute), 410
DEVELOPMENT (ask_sdk_model.services.proactive_events.skild_istage iskillStage) ot
```

attribute), 418

(ask_smapi_model.v1.skill.history.dialog_act_name.DialogActNa

attribute), 277

development (ask_smapi_model.v1.isp.stage.Stage at-

```
DIALOG MODEL BUILD
                                                                                                                                                                                (ask_sdk_model.cause.Cause
                                                                                                                                                                                                                                                                             attribute),
                         (ask_smapi_model.v1.skill.build_step_name.BuildStepName311
                         attribute), 517
                                                                                                                                                      discriminator_value_class_map
                                                                                                                                                                                (ask_sdk_model.directive.Directive attribute),
                                                                               (class
                                                                                                                                           in
DialogAct
                        ask_smapi_model.v1.skill.evaluations.dialog_act),
                                                                                                                                                      discriminator_value_class_map
                                                                                                                                                                               (ask_sdk_model.interfaces.alexa.presentation.apl.animated_prop
DialogAct
                                                                               (class
                                                                                                                                          in
                                                                                                                                                                               attribute), 82
                         ask_smapi_model.v1.skill.history.dialog_act),
                                                                                                                                                      discriminator_value_class_map
\verb|dialogAct_name|| (ask\_smapi\_model.v1.skill.history.sort\_field\_for \underline{\textit{(inste_nstd}ke\_prodel\_tiyper} \\ \textit{SoverField-KoplretsentRetipne.stflypommand.Communications} \\ | (ask\_smapi\_model.v1.skill.history.sort\_field\_for \underline{\textit{(inste_nstd}ke\_prodel\_tiyper} \\ \textit{SoverField-KoplretsentRetipne.stflypommand.Communications} \\ | (ask\_smapi\_model.v1.skill.history.sort\_field\_for \underline{\textit{(inste_nstd}ke\_prodel\_tiyper} \\ \textit{SoverField-KoplretsentRetipne.stflypommand.Communications} \\ | (ask\_smapi\_model.v1.skill.history.sort\_field\_for \underline{\textit{(inste_nstd}ke\_prodel\_tiyper} \\ \textit{(inste_nstd}ke\_prodel\_tiyper} \\ \textit{(inste_nstd}ke\_prodel_tiyper} \\ \textit{(inste_nstd}ke\_prodel_tiyp
                        attribute), 422
                                                                                                                                                                                attribute), 86
                                                                                                                                           in discriminator_value_class_map
DialogActName
                                                                                      (class
                                                                                                                                                                               (ask\_sdk\_model.interfaces.alexa.presentation.aplt.command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Command.Co
                        ask_smapi_model.v1.skill.history.dialog_act_name),
                                                                                                                                                                               attribute), 115
                        417
                                                                                      (class
                                                                                                                                          in discriminator_value_class_map
DialogActType
                        ask_smapi_model.v1.skill.evaluations.dialog_act_type),
                                                                                                                                                                               (ask_sdk_model.interfaces.amazonpay.model.request.base_amazo
                                                                                                                                                                               attribute), 132
                        410
DialogIntents
                                                                                      (class
                                                                                                                                           in discriminator_value_class_map
                        ask_smapi_model.v1.skill.interaction_model.dialog_intents(_ask_sdk_model.interfaces.connections.entities.base_entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Entity.Base_Enti
                                                                                                                                                                                attribute), 174
DialogPrompts
                                                                                      (class
                                                                                                                                           in discriminator_value_class_map
                        ask_smapi_model.v1.skill.interaction_model.dialog_prompt@sk_sk_sdk_model.interfaces.connections.requests.base_request.Ba.
                         436
                                                                                                                                                                                attribute), 176
DialogSlotItems
                                                                                                                                           in discriminator_value_class_map
                                                                                          (class
                        ask_smapi_model.v1.skill.interaction_model.dialog_slot_ite(ns)k_sdk_model.interfaces.display.hint.Hint
                                                                                                                                                                               attribute), 196
DialogState (class in ask_sdk_model.dialog_state), discriminator_value_class_map
                                                                                                                                                                                (ask_sdk_model.interfaces.display.template.Template
DIRECTION (ask_sdk_model.interfaces.viewport.keyboard.Keyboardattribute), 202
                         attribute), 228
                                                                                                                                                      discriminator_value_class_map
Directive (class in ask_sdk_model.directive), 314
                                                                                                                                                                                (ask_sdk_model.interfaces.display.text_field.TextField
Directive
                                                                               (class
                                                                                                                                          in
                                                                                                                                                                                attribute), 203
                         ask_sdk_model.services.directive.directive),
                                                                                                                                                      discriminator_value_class_map
                                                                                                                                                                               (ask_sdk_model.interfaces.viewport.size.viewport_size.ViewportS
DirectiveServiceClient
                                                                                                                                                                               attribute), 225
                                                                                                        (class
                                                                                                                                           in
                        ask_sdk_model.services.directive_directive_service_ir_tient),minator_value_class_map
                                                                                                                                                                               (ask_sdk_model.interfaces.viewport.typed_viewport_state.TypedV
disabled (ask_sdk_model.interfaces.alexa.presentation.apl.componemtilstate
                         attribute), 87
                                                                                                                                                      discriminator_value_class_map
DISABLED (ask_sdk_model.interfaces.geolocation.access.Access
                                                                                                                                                                               (ask_sdk_model.request.Request
                                                                                                                                                                                                                                                                             attribute),
                         attribute), 206
DISABLED (ask_sdk_model.services.reminder_management.pusshr_natificationr_statussPushNotificationpStatus
                                                                                                                                                                               (ask_sdk_model.services.directive.directive.Directive
                         attribute), 281
                                                                                                                                                                                attribute), 236
DISASSOCIATE (ask_smapi_model.v1.skill.action.Action
                         attribute), 515
                                                                                                                                                      discriminator_value_class_map
disassociate_isp_with_skill_v1()
                                                                                                                                                                                (ask_sdk_model.services.game_engine.recognizer.Recognizer
                         (ask_smapi_model.services.skill_management.skill_managementbuse)yi2&9_client.SkillManagementServiceClient
                                                                                                                                                      discriminator_value_class_map
DISCOVERED_ISSUE (ask_smapi_model.v1.skill.reason.Reason
                                                                                                                                                                               (ask_sdk_model.ui.card.Card
                                                                                                                                                                                                                                                                             attribute),
                         attribute), 525
DiscreteViewportSize
                                                                                                    (class
                                                                                                                                           in discriminator_value_class_map
                        ask_sdk_model.interfaces.viewport.size.discrete_viewport_s(resk_sdk_model.ui.output_speech.OutputSpeech
                                                                                                                                                                                attribute), 308
discriminator_value_class_map
                                                                                                                                                      discriminator_value_class_map
```

```
(ask_smapi_model.v1.skill.interaction_model.slot_waktiom&pot_Vabialedtichisp.distribution_countries.DistributionCountries
                               attribute), 447
                                                                                                                                                                                                                                 attribute), 372
                                                                                                                                                                                                DJ (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
discriminator_value_class_map
                                (ask_smapi_model.v1.skill.interaction_model.value_supplieaNalbuefa)pftier
                                attribute), 448
                                                                                                                                                                                                DK (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
discriminator_value_class_map
                                                                                                                                                                                                                                 attribute), 372
                                (ask_smapi_model.v1.skill.manifest.interface.Interface.Interface.smapi_model.v1.skill.manifest.distribution_countries.Distribution
                                                                                                                                                                                                                                 attribute), 457
                                attribute), 477
dispatch() (ask_sdk_runtime.dispatch.AbstractRequestDMfatkhesmapi_model.v1.isp.distribution_countries.DistributionCountries
                                                                                                                                                                                                                                 attribute), 372
                                method), 3
dispatch() (ask_sdk_runtime.dispatch.GenericRequestDisp(ask_esmapi_model.v1.skill.manifest.distribution_countries.Distribution
                                                                                                                                                                                                                                 attribute), 457
                                method), 6
dispatch() (django_ask_sdk.skill_adapter.SkillAdapter DO (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                               method), 49
                                                                                                                                                                                                                                 attribute), 372
dispatch_request()
                                                                                                                                                                                                \verb|DO| (ask\_smapi\_model.v1.skill.manifest.distribution\_countries.DistributionQuarter (ask\_smapi\_model.v1.skill.manifest.distribution\_countries.DistributionQuarter (ask\_smapi\_model.v1.skill.manifest.distribution\_countries.DistributionQuarter (ask\_smapi\_model.v1.skill.manifest.distribution\_countries.DistributionQuarter (ask\_smapi\_model.v1.skill.manifest.distribution\_countries.DistributionQuarter (ask\_smapi\_model.v1.skill.manifest.distributionQuarter (ask\_smapi\_model.v1.skill.manifest.distributionQuarte
                                (flask_ask_sdk.skill_adapter.SkillAdapter
                                                                                                                                                                                                                                 attribute), 457
                               method), 47
                                                                                                                                                                                                 down (ask_sdk_model.services.game_engine.input_event_action_type.Inpu
DispatchException, 13
                                                                                                                                                                                                                                 attribute), 245
Display_ElementSelected
                                                                                                                                                                                                DRAFT (ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreement_
                                (ask_smapi_model.v1.skill.manifest.event_name_type.Event\(\mathbb{NtarileiTyp\)\(\epsilon\)\(\text{2}\)
                               attribute), 466
                                                                                                                                                                                                DUPLICATE_ARRAY_ITEMS
Display_UserEvent
                                                                                                                                                                                                                                 (ask_smapi_model.v1.skill.standardized_error_code.Standardized
                                (ask_smapi_model.v1.skill.manifest.event_name_type.Event\( \) Matrile (1) y 532
                               attribute), 466
                                                                                                                                                                                                DynamicEntitiesDirective
                                                                                                                                                                                                                                                                                                                                          (class
DisplayInterface
                                                                                                                                                                                                                                 ask_sdk_model.dialog.dynamic_entities_directive),
                                                                                                                      (class
                                                                                                                                                                                  in
                               ask_sdk_model.interfaces.display.display_interface),
                                                                                                                                                                                                 DynamoDbAdapter
                                                                                                                                                                                                                                                                                                                    (class
                                                                                                                                                                                                                                                                                                                                                                                  in
                                                                                                                                                                                                                                 ask_sdk_dynamodb.adapter), 35
DisplayInterface
                                                                                                                      (class
                                                                                                                                                                                   in
                               ask_smapi_model.v1.skill.manifest.display_interfare\( \)(ask_smapi_model.v1.isp.distribution_countries. DistributionCountries
                                                                                                                                                                                                                                 attribute), 372
                                                                                                                                                                                  in \quad \text{DZ } (ask\_smapi\_model.v1.skill.manifest.distribution\_countries.Distribution \textbf{C} (ask\_smapi\_model.v1.skill.manifest.distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Distribution\_countries.Dist
DisplayInterfaceApmlVersion
                                                                                                                                                (class
                                ask_smapi_model.v1.skill.manifest.display_interface_apml_artrisborte), 457
DisplayInterfaceTemplateVersion (class in
                               ask\_smapi\_model.v1.skill.manifest.display\_interfa\underline{c}e\_(\textit{testap} | \textit{testap} | \textit{testap
                                                                                                                                                                                                                                 attribute), 372
DisplayState
                                                                                                            (class
                                                                                                                                                                                                {\tt EC}\ (ask\_smapi\_model.v1.skill.manifest.distribution\_countries.Distribution Countries.Distribution Countries.
                                ask_sdk_model.interfaces.display.display_state),
                                                                                                                                                                                                                                 attribute), 457
                                195
                                                                                                                                                                                                EDITABLE (ask_smapi_model.v1.isp.editable_state.EditableState
DistanceUnits
                                                                                                               (class
                                                                                                                                                                                 in
                                                                                                                                                                                                                                 attribute), 378
                               ask_sdk_model.services.ups.distance_units),
                                                                                                                                                                                                EditableState
                                                                                                                                                                                                                                                                                                                (class
                                                                                                                                                                                                                                                                                                                                                                                   in
                                294
                                                                                                                                                                                                                                 ask_smapi_model.v1.isp.editable_state),
DistributionCountries
                                                                                                                                  (class
                                                                                                                                                                                 in
                               ask\_smapi\_model.v1.isp. distribution\_countries), \ \ \texttt{EE}\ (ask\_smapi\_model.v1.isp. distribution\_countries. DistributionCountries)
                                                                                                                                                                                                                                 attribute), 372
DistributionCountries
                                                                                                                                  (class
                                                                                                                                                                                   in EE (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution G
                               ask_smapi_model.v1.skill.manifest.distribution_countries), attribute), 457
                               455
                                                                                                                                                                                                 {\tt EffectsController\_RequestEffectChangeRequest}
DistributionInfo
                                                                                                                      (class
                                                                                                                                                                                  in
                                                                                                                                                                                                                                 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
                               ask_smapi_model.v1.skill.certification.distribution_info),
                                                                                                                                                                                                                               attribute), 466
                                406
                                                                                                                                                                                                 EffectsController_RequestGuiChangeRequest
                                                                                                                      (class
DistributionMode
                                                                                                                                                                                                                                 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
                               ask_smapi_model.v1.skill.manifest.distribution_mode),
                                                                                                                                                                                                                                 attribute), 466
                               462
                                                                                                                                                                                                EffectsController_StateReceiptChangeRequest
```

```
(ask_smapi_model.v1.skill.manifest.event_name_type.EventNshnedlypmodel.services.endpoint_enumeration.endpoint_enumer
                           attribute), 466
EG (ask_smapi_model.v1.isp.distribution_countries.DistributiondCountries.numerationServiceClient (class in
                                                                                                                                                                                                      ask\_sdk\_model.services.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint\_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpoint_enumeration.endpo
                            attribute), 372
EG (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
                           attribute), 457
                                                                                                                                                                         EndpointInfo
                                                                                                                                                                                                                                                                         (class
EH (ask_smapi_model.v1.isp.distribution_countries.DistributionCountriks_sdk_model.services.endpoint_enumeration.endpoint_info),
                                                                                                                                                                                                       240
                            attribute), 372
EH (ask_smapi_model.v1.skill.manifest.distribution_countriENQisEiDu(iaskCsalla_tnicxdel.interfaces.audioplayer.play_behavior.PlayBeha
                                                                                                                                                                                                      attribute), 167
                           attribute), 457
ElementSelectedRequest
                                                                                                                     (class
                                                                                                                                                            in ENQUEUE (ask_sdk_model.ui.play_behavior.PlayBehavior
                           ask_sdk_model.interfaces.display.element_selected_request\( attribute \), 309
                                                                                                                                                                          enqueue() (ask_sdk_model.services.directive.directive_service_client.Di
ElicitSlotDirective
                                                                                                                                                                                                      method), 236
                                                                                                              (class
                            ask_sdk_model.dialog.elicit_slot_directive), 70 ENTERTAINMENT (ask_smapi_model.v1.skill.manifest.flash_briefing_genn
en_AU (ask_smapi_model.v1.skill.history.intent_request_locales.IntentReibutes)L&&ales
                                                                                                                                                                         ENTITLED (ask_sdk_model.services.monetization.entitled_state.EntitledSt
                            attribute), 420
en_AU (ask_smapi_model.v1.skill.history.locale_in_query.LocaleInQuetribute), 266
                                                                                                                                                                         EntitledState
                            attribute), 421
                                                                                                                                                                                                                                                                            (class
\verb"en_CA" (ask\_smapi\_model.v1.skill.history.intent\_request\_locales. Intend \verb"ske_qdk_suhodales" en_kervices. monetization. entitled\_state),
                            attribute), 420
                                                                                                                                                                                                       266
\verb"en_CA" (ask\_smapi\_model.v1.skill.history.locale\_in\_query. \textit{IENSTILETHQUEEN} \texttt{T} (ask\_sdk\_model.services.monetization.product\_type. Product\_type. Produ
                            attribute), 421
                                                                                                                                                                                                      attribute), 271
en_GB (ask_smapi_model.v1.skill.history.intent_request_loeatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fileatest_fi
                                                                                                                                                                                                      attribute), 385
                            attribute), 420
en_GB (ask_smapi_model.v1.skill.history.locale_in_query.lboctaletnQuery.tReason
                                                                                                                                                                                                                                                                                     (class
                                                                                                                                                                                                      ask_sdk_model.services.monetization.entitlement_reason),
                            attribute), 421
\verb"en_IN" (ask\_smapi\_model.v1.skill.history.intent\_request\_locales.IntentRequestLocales in the content of the 
                            attribute), 420
                                                                                                                                                                         Entity (class in ask_sdk_model.er.dynamic.entity), 71
en_IN (ask_smapi_model.v1.skill.history.locale_in_query.lboxtaletn_Quest_Item
                                                                                                                                                                                                                                                                              (class
                                                                                                                                                                                                                                                                                                                                       in
                                                                                                                                                                                                      ask_sdk_model.er.dynamic.entity_list_item), 71
                            attribute), 421
en_US (ask_smapi_model.v1.skill.history.intent_request_loEalesi.hrpeintRaquiestEiScalesnyms
                                                                                                                                                                                                                                                                                               (class
                                                                                                                                                                                                      ask_sdk_model.er.dynamic.entity_value_and_synonyms),
                            attribute), 420
en_US (ask_smapi_model.v1.skill.history.locale_in_query.LocaleInQuery
                            attribute), 421
                                                                                                                                                                         EOUAL
                                                                                                                                                                                                        (ask_sdk_core.utils.viewport.Orientation
{\tt ENABLED}~(ask\_sdk\_model.interfaces.geolocation.access.Access
                                                                                                                                                                                                      tribute), 30
                            attribute), 206
                                                                                                                                                                         ER(ask\_smapi\_model.v1.isp.distribution\_countries.DistributionCountries
ENABLED (ask_sdk_model.services.reminder_management.push_notifitationte) tation Status
                            attribute), 281
                                                                                                                                                                         ER (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution@
end (ask_sdk_model.services.game_engine.pattern_recognizer_anchanttippetPatternRecognizerAnchorType
                           attribute), 248
                                                                                                                                                                         ER_ERROR_EXCEPTION
end_beta_test_v1()
                                                                                                                                                                                                      (ask_sdk_model.slu.entityresolution.status_code.StatusCode
                            (ask_smapi_model.services.skill_management.skill_managementbisten)yib@5_client.SkillManagementServiceClient
                           method), 339
                                                                                                                                                                          ER_ERROR_EXCEPTION
                                                                                                                                                                                                      (ask\_smapi\_model.v1.skill.evaluations.resolutions\_per\_authority)
{\tt ENDED}~(ask\_smapi\_model.v1.skill.beta\_test.status.Status
                            attribute), 403
                                                                                                                                                                                                      attribute), 414
Endpoint (class in ask_sdk_model.interfaces.custom_interfaceEBMORo_llPEMHIDOTIN(u,sk_sdk_model.slu.entityresolution.status_code.St
                                                                                                                                                                                                      attribute), 305
ENDPOINT_TIMEOUT (ask_sdk_model.session_ended_error_typessorsianEmdedErrarTypenapi_model.v1.skill.evaluations.resolutions_
                           attribute), 327
                                                                                                                                                                                                      attribute), 414
EndpointCapability
                                                                                                                                                             in ER_SUCCESS_MATCH (ask_sdk_model.slu.entityresolution.status_code.St
                                                                                                            (class
                           ask_sdk_model.services.endpoint_enumeration.endpoint_captabilitye), 305
                                                                                                                                                                          ER_SUCCESS_MATCH (ask_smapi_model.v1.skill.evaluations.resolutions_
```

in

(class

EndpointEnumerationResponse

```
ER SUCCESS NO MATCH
                                                                 406
         (ask_sdk_model.slu.entityresolution.status_code.SETUsSbdenapi_model.v1.isp.distribution_countries.DistributionCountries
         attribute), 305
                                                                 attribute), 372
ER_SUCCESS_NO_MATCH
                                                       ET (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution@
         (ask_smapi_model.v1.skill.evaluations.resolutions_per_authatribuste)twb_vode.ResolutionsPerAuthorityStatusCode
                                                       EUR (ask_smapi_model.v1.isp.currency.Currency at-
ERROR (ask_sdk_model.interfaces.monetization.v1.purchase_result.Puridhase)Re30lt
                                                       Event (class in ask_sdk_model.interfaces.custom_interface_controller.even
         attribute), 212
ERROR (ask_sdk_model.services.monetization.status.Status
         attribute), 273
                                                       Event (class in ask_sdk_model.services.game_engine.event),
ERROR (ask_sdk_model.session_ended_reason.SessionEndedReason 243
         attribute), 328
                                                       Event (class in ask_sdk_model.services.proactive_events.event),
Error (class in ask_sdk_model.interfaces.audioplayer.error),
                                                       Event (class in ask_sdk_model.services.reminder_management.event),
Error (class in ask_sdk_model.interfaces.system.error),
                                                                 279
                                                       EventFilter
                                                                                      (class
                                                                                                           in
Error (class in ask_sdk_model.services.device_address.error),
                                                                 ask_sdk_model.interfaces.custom_interface_controller.event_filte
Error (class in ask_sdk_model.services.directive.error), EventName
                                                                                     (class
                                                                 ask smapi model.v1.skill.manifest.event name),
Error (class in ask_sdk_model.services.endpoint_enumeration.error),462
                                                       EventNameType
                                                                                        (class
                                                                 ask_smapi_model.v1.skill.manifest.event_name_type),
Error (class in ask_sdk_model.services.list_management.error),
Error (class in ask_sdk_model.services.lwa.error), 264 EventPublications
                                                                                           (class
                                                                                                           in
Error (class in ask_sdk_model.services.monetization.error),
                                                                 ask_smapi_model.v1.skill.manifest.event_publications),
Error (class in ask_sdk_model.services.proactive_events.eEroe)ntReportingType
                                                                                           (class
                                                                 ask_sdk_model.services.game_engine.event_reporting_type),
Error (class in ask_sdk_model.services.reminder_management.error),44
                                                       EventsReceivedRequest
                                                                                             (class
Error (class in ask_sdk_model.services.skill_messaging.error),
                                                                 ask_sdk_model.interfaces.custom_interface_controller.events_rec
                                                                 186
Error (class in ask_sdk_model.services.ups.error), 294
                                                       EXCEEDED_MAX_REPROMPTS
Error (class in ask_sdk_model_runtime.lwa.error), 57
                                                                 (ask_sdk_model.session_ended_reason.SessionEndedReason
Error (class in ask_smapi_model.v1.error), 540
                                                                 attribute), 328
                                                       exception_handler()
         ask_sdk_model.interfaces.system.error_cause),
                                                                 (ask_sdk.standard.StandardSkillBuilder
         217
                                                                 method), 40
ErrorCode
                                                       exception_handler()
                             (class
                                                   in
         ask_sdk_model.services.ups.error_code),
                                                                 (ask_sdk_core.skill_builder.CustomSkillBuilder
         295
                                                                 method), 25
ErrorType
                             (class
                                                   in exception_handler()
                                                                 (ask_sdk_core.skill_builder.SkillBuilder
         ask_sdk_model.interfaces.audioplayer.error_type),
                                                                 method), 23
                                                       exception_handler()
ErrorType
                             (class
                                                                 (ask\_sdk\_runtime.skill\_builder.AbstractSkillBuilder
         ask_sdk_model.interfaces.system.error_type),
                                                                 method), 12
ES (ask_smapi_model.v1.isp.distribution_countries.Distribution_Eptunitains_handlers
         attribute), 372
                                                                 (ask_sdk_runtime.dispatch_components.exception_components.G
ES (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributioril@weint@ies
         attribute), 457
                                                       ExceptionEncounteredRequest
                                                                                                 (class
EstimationUpdate
                                  (class
                                                   in
                                                                 ask_sdk_model.interfaces.system.exception_encountered_request
```

ask_smapi_model.v1.skill.certification.estimation_update), 217

```
execute() (ask_sdk_runtime.dispatch_components.reque\( \int_A \text{TotalDofusktssAlbertiantbHehdlk.sAilluptort}\) fication.certification_status.Certific
                                                                                                                                                                                                                 attribute), 405
                              method), 5
execute() (ask_sdk_runtime.dispatch_components.reque\( \bar{F}(\) \) \( \bar{E} \) \( 
                             method), 8
                                                                                                                                                                                                                 attribute), 426
ExecuteCommandsDirective
                                                                                                                                (class
                                                                                                                                                                     in \quad {\tt FAILED} \ (ask\_smapi\_model.v1.skill.response\_status.ResponseStatus
                             ask_sdk_model.interfaces.alexa.presentation.apl.execute_commidmde)_directive),
                                                                                                                                                                                   FAILED (ask_smapi_model.v1.skill.simulations.simulations_api_response_
ExecuteCommandsDirective
                                                                                                                                (class
                                                                                                                                                                     in
                                                                                                                                                                                                                 attribute), 511
                              ask_sdk_model.interfaces.alexa.presentation.aplt.EXeTUE_commkn_dmafrientiae}[.v1.skill.status.Status
                                                                                                                                                                                                                 tribute), 532
EXPECTED_COMPLIANCE_AGREEMENT
                                                                                                                                                                                  FAILED (ask_smapi_model.v1.skill.validations.response_validation_status
                              (ask_smapi_model.v1.skill.standardized_error_code.Standardizedlee)o5Code
                                                                                                                                                                                  \verb|FAILED| (ask\_smapi\_model.v1.skill.validations.validations\_api\_response\_instance and api\_response\_instance and api\_resp
                             attribute), 532
EXPECTED_RELATED_INSTANCE
                                                                                                                                                                                                                 attribute), 515
                             (ask_smapi_model.v1.skill.standardized_error_codesSinedardizedEnvorCo(tesk_smapi_model.v1.skill.metrics.metric.Metric
                             attribute), 532
                                                                                                                                                                                                                 attribute), 503
                                                                                                                                                                     in FI (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
Experience
                                                                                                (class
                             ask_sdk_model.interfaces.viewport.experience),
                                                                                                                                                                                                                 attribute), 372
                              228
                                                                                                                                                                                  FI (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
Expiration
                                                                                                (class
                                                                                                                                                                                                                 attribute), 457
                             ask_sdk_model.interfaces.custom_interface_controlleresspications,tatus
                                                                                                                                                                                                                                                                                                 (class
                                                                                                                                                                                                                                                                                                                                                        in
                                                                                                                                                                                                                 ask\_smapi\_model.v1.catalog.upload.file\_upload\_status),
                                                                                                                                                                                                                 363
EXPIRED_NO_ACTION_BY_PARENT
                              (ask_sdk_model.services.monetization.status.StatusilterMatchAction
                                                                                                                                                                                                                                                                                                   (class
                             attribute), 273
                                                                                                                                                                                                                 ask_sdk_model.interfaces.custom_interface_controller.filter_mate
ExpiredRequest
                                                                                                         (class
                              ask_sdk_model.interfaces.custom_interface_controllerespited(askquadk).model.interfaces.audioplayer.player_activity.PlayerA
                                                                                                                                                                                                                 attribute), 171
EXPIRY_OFFSET_IN_MILLIS
                                                                                                                                                                                   first (ask_sdk_model.interfaces.alexa.presentation.apl.align.Align
                              (ask_sdk_model.services.lwa.lwa_client.LwaClient
                                                                                                                                                                                                                 attribute), 80
                                                                                                                                                                                   {\tt FitnessSessionController\_FitnessSessionEnded}
                             attribute), 265
EXPIRY_OFFSET_IN_MILLIS
                                                                                                                                                                                                                 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
                              (ask_sdk_model_runtime.lwa.lwa_client.LwaClient
                                                                                                                                                                                                                 attribute), 466
                             attribute), 57
                                                                                                                                                                                  {\tt FitnessSessionController\_FitnessSessionError}
EXPORT_COMPLIANCE
                                                                                                                                                                                                                 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
                             (ask_smapi_model.v1.skill.agreement_type.AgreementType attribute), 466
                             attribute), 516
                                                                                                                                                                                   FitnessSessionController_FitnessSessionPaused
ExportResponse
                                                                                                         (class
                                                                                                                                                                                                                 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
                                                                                                                                                                     in
                             ask_smapi_model.v1.skill.export_response),
                                                                                                                                                                                                                 attribute), 466
                             518
                                                                                                                                                                                  FitnessSessionController_FitnessSessionResumed
ExportResponseSkill
                                                                                                                                                                                                                 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
                                                                                                                    (class
                                                                                                                                                                     in
                             ask_smapi_model.v1.skill.export_response_skill),
                                                                                                                                                                                                                 attribute), 466
                                                                                                                                                                                   FitnessSessionController_FitnessSessionStarted
EXTENSION_NAME
                                                                                                                                                                                                                 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
                                                                                                                                                      module
                                                                                                      (in
                             flask_ask_sdk.skill_adapter), 48
                                                                                                                                                                                                                 attribute), 466
                                                                                                                                                                                   FJ (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
F
                                                                                                                                                                                                                 attribute), 373
{\tt FAHRENHEIT} (ask\_sdk\_model.services.ups.temperature\_urit! Temperature\_urit! Temperature \_urit! Temperat
                                                                                                                                                                                                                 attribute), 457
                             attribute), 296
\verb|FAILED|| (ask\_smapi\_model.v1. catalog.upload.ingestion\_statis)| \textit{This finite properties} (ask\_sma
                                                                                                                                                                                                                 attribute), 373
                             attribute), 364
FAILED (ask_smapi_model.v1.catalog.upload.upload_statuEMUprkasyanismodel.v1.skill.manifest.distribution_countries.DistributionC
```

attribute), 367

attribute), 457

flashBriefing (ask_smapi_model.v1.skill.metrics.skill_type.SkillType

```
attribute), 504
                                                                                                                                                                             Gadget Support
                                                                                                                                                                                                                                                                                  (class
flashBriefing (ask_smapi_model.v1.skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_apis.Skill_summary_api
                            attribute), 530
FlashBriefingApis
                                                                                                                                                                in GameEngine_InputHandlerEvent
                                                                                                            (class
                            ask_smapi_model.v1.skill.manifest.flash_briefing_apis),
                                                                                                                                                                                                           (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
                                                                                                                                                                                                          attribute), 466
FlashBriefingContentType
                                                                                                                            (class
                                                                                                                                                                in GameEngineInterface
                                                                                                                                                                                                                                                                                               (class
                                                                                                                                                                                                                                                                                                                                              in
                            ask_smapi_model.v1.skill.manifest.flash_briefing_content_tqqxk)_smapi_model.v1.skill.manifest.game_engine_interface),
                            472
                                                                                                                                                                in \ \ \mathsf{GB}\ (ask\_smapi\_model.v1.isp.distribution\_countries.DistributionCountries
FlashBriefingGenre
                                                                                                               (class
                            ask_smapi_model.v1.skill.manifest.flash_briefing_genre), attribute), 373
                                                                                                                                                                             GB (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
                                                                                                                                                                                                           attribute), 457
FlashBriefingUpdateFrequency
                                                                                                                                    (class
                                                                                                                                                                in
                            ask_smapi_model.v1.skill.manifest.flash_briefing @pdate(diskquency), model.v1.isp.currency.Currency
                                                                                                                                                                                                          tribute), 370
FM (ask_smapi_model.v1.isp.distribution_countries.Distribution(ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                            attribute), 373
                                                                                                                                                                                                          attribute), 373
FM (ask_smapi_model.v1.skill.manifest.distribution_countriexDistribution_countriexD. askill.manifest.distribution_countriexD. askill.manifest.distribution_count
                            attribute), 457
                                                                                                                                                                                                          attribute), 457
FO (ask_smapi_model.v1.isp.distribution_countries.Distribution(ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                            attribute), 373
                                                                                                                                                                                                          attribute), 373
FO (ask_smapi_model.v1.skill.manifest.distribution_countriesEDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistribution_countriesDistr
                            attribute), 457
                                                                                                                                                                                                          attribute), 457
focused (ask sdk model.interfaces.alexa.presentation.apkxxmponerit state.ComponeritState url v1()
                            attribute), 87
                                                                                                                                                                                                          (ask_smapi_model.services.skill_management.skill_management]
ForbiddenError
                                                                                                      (class
                                                                                                                                                                                                          method), 339
                            ask_sdk_model.services.list_management.forbiddege_neroe)te_credentials_for_alexa_hosted_skill_v1()
                             253
                                                                                                                                                                                                           (ask_smapi_model.services.skill_management.skill_management_
FORCE_NEW_SESSION
                                                                                                                                                                                                          method), 340
                            (ask_smapi_model.v1.skill.simulations.session_moderSexsioneModemplate_response()
                            attribute), 509
                                                                                                                                                                                                           (ask_sdk_core.handler_input.HandlerInput
foreground (ask_sdk_model.interfaces.alexa.presentation.apl.audim_ethatk)AudioTrack
                            attribute), 83
                                                                                                                                                                             GenericExceptionMapper
FOUR_CHARACTER_CLOCK
                                                                                                                                                                                                           ask_sdk_runtime.dispatch_components.exception_components),
                             (ask_sdk_model.interfaces.alexa.presentation.aplt.target_profile.TargetProfile
                            attribute), 123
                                                                                                                                                                             GenericHandlerAdapter
                                                                                                                                                                                                                                                                                                                                              in
                                                                                                                                                                                                                                                                                                   (class
FOUR_CHARACTER_CLOCK
                                                                                                                                                                                                          ask sdk runtime.dispatch components.request components),
                            (ask_sdk_model.interfaces.viewport.aplt.viewport_profile.Vi8wportProfile
                             attribute), 223
                                                                                                                                                                             GenericRequestDispatcher
                                                                                                                                                                                                                                                                                                          (class
                                                                                                                                                                                                                                                                                                                                              in
FR (ask_sdk_model.services.reminder_management.recurrence_day.Raskr*sdk_eeDatyme.dispatch), 6
                            attribute), 282
                                                                                                                                                                             GenericRequestHandlerChain
                                                                                                                                                                                                                                                                                                             (class
FR (ask_smapi_model.v1.isp.distribution_countries.DistributionCountrisks_sdk_runtime.dispatch_components.request_components),
                            attribute), 373
FR (ask_smapi_model.v1.skill.manifest.distribution_countrieneDistribution_GeneratMexper
                                                                                                                                                                                                                                                                                                (class
                                                                                                                                                                                                                                                                                                                                              in
                            attribute), 457
                                                                                                                                                                                                           ask_sdk_runtime.dispatch_components.request_components),
G
                                                                                                                                                                             GeolocationInterface
                                                                                                                                                                                                                                                                                                (class
\texttt{GA} \ (ask\_smapi\_model.v1. isp. distribution\_countries. DistributionCountPiks\_sdk\_model. interfaces. geolocation\_geolocation\_interface),
                            attribute), 373
                                                                                                                                                                                                                                                                                        (class
GA (ask_smapi_model.v1.skill.manifest.distribution_countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distribution@countries:Distrib
                                                                                                                                                                                                           ask_sdk_model.interfaces.geolocation.geolocation_state),
                            attribute), 457
GadgetControllerInterface
                                                                                                                             (class
                            ask\_smapi\_model.v1.skill.manifest.gadget\_controler_T.msrfselk\_model.interfaces.alexa.presentation.html.start\_request\_meth
                                                                                                                                                                                                          attribute), 128
                            473
```

```
get_access_token_for_scope()
                                                                                                                                                                                                                                            (ask_sdk_model.services.service_client_factory.ServiceClientFac
                                 (ask\_sdk\_model.services.lwa.lwa\_client.LwaClient
                                                                                                                                                                                                                                           method), 301
                                                                                                                                                                                                         get_dpi_group()
                                method), 265
                                                                                                                                                                                                                                                                                                                                                                                  module
get_access_token_for_scope()
                                                                                                                                                                                                                                           ask_sdk_core.utils.viewport), 31
                                 (ask_sdk_model_runtime.lwa.lwa_client.LwaClient_endpoint_enumeration_service()
                                                                                                                                                                                                                                          (ask_sdk_model.services.service_client_factory.ServiceClientFac
get_access_token_from_refresh_token()
                                                                                                                                                                                                                                          method), 301
                                 (ask_sdk_model.services.lwa.lwa_client.LwaClientet_endpoints() (ask_sdk_model.services.endpoint_enumeration.end
                                method), 265
                                                                                                                                                                                                                                           method), 239
get_access_token_from_refresh_token()
                                                                                                                                                                                                         get_full_address()
                                  (ask_sdk_model_runtime.lwa.lwa_client.LwaClient
                                                                                                                                                                                                                                           (ask\_sdk\_model.services.device\_address.device\_address\_service]
                                                                                                                                                                                                                                           method), 234
                                 method), 58
get_account_linking_access_token()
                                                                                                                                                                                       (in get_handler() (ask_sdk_runtime.dispatch_components.exception_com
                                module ask_sdk_core.utils.request_util), 32
                                                                                                                                                                                                                                           method), 6
get_account_linking_info_v1()
                                                                                                                                                                                                         get_handler() (ask_sdk_runtime.dispatch_components.exception_com
                                 (ask\_smapi\_model.services.skill\_management.skill\_managementoriceClient) and provided a property of the provided and the pro
                                method), 340
                                                                                                                                                                                                         get_header_value()
                                                                                                                                                                                                                                                                                                                                      (in
                                                                                                                                                                                                                                                                                                                                                                                  module
get_alexa_hosted_skill_metadata_v1()
                                                                                                                                                                                                                                          ask_smapi_sdk.utils), 54
                                 (ask_smapi_model.services.skill_management.skillganariagement_servicesslient.SkillManagementServiceClient
                                method), 340
                                                                                                                                                                                                                                           (ask_smapi_model.services.skill_management.skill_management_
get_alexa_hosted_skill_user_permissions_v1()
                                                                                                                                                                                                                                          method), 342
                                 (ask_smapi_model.services.skill_management.skillg=ntariagement]service@atient.SkillManagementServiceClient
                                method), 341
                                                                                                                                                                                                                                           (ask_sdk_model.services.monetization.monetization_service_clienter)
get_api_access_token()
                                                                                                                                                                        module
                                                                                                                                                                                                                                          method), 269
                                 ask_sdk_core.utils.request_util), 32
                                                                                                                                                                                                         get_in_skill_products()
get_attributes() (ask_sdk_core.attributes_manager.AbstractPetusiktesdke_Adaptetservices.monetization.monetization_service_clients
                                                                                                                                                                                                                                            method), 270
                                 method), 27
\texttt{get\_attributes()} \ (\textit{ask\_sdk\_dynamodb.adapter.Dynamodb} \underline{\textit{Adapter.Dynamodb}} \underline{\textit{Ad
                                                                                                                                                                                                                                           (ask_sdk_model.services.monetization.monetization_service_clienter)
                                method), 36
get_attributes() (ask_sdk_s3.adapter.S3Adapter
                                                                                                                                                                                                                                           method), 270
                                 method), 52
                                                                                                                                                                                                         get_intent_name()
                                                                                                                                                                                                                                                                                                                                                                                 module
get_beta_test_v1()
                                                                                                                                                                                                                                           ask_sdk_core.utils.request_util), 32
                                 (ask\_smapi\_model.services.skill\_management.skill\underline{s}\_an\underline{a}\underline{n}a\underline{generat}\_stervice\underline{r}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\_antage\underline{ment}\underline{Skill}\underline{Skill}\_antage\underline{ment
                                                                                                                                                                                                                                           (ask_smapi_model.services.skill_management.skill_management_
                                method), 341
get_certification_review_v1()
                                                                                                                                                                                                                                           method), 342
                                 (ask_smapi_model.services.skill_management.skillgentariagement_stervice_rotievet \(\sigma\) killMarlagement\(\sigma\) etvice\(\sigma\) ()
                                method), 341
                                                                                                                                                                                                                                            (ask_smapi_model.services.skill_management.skill_management_
get_certifications_list_v1()
                                                                                                                                                                                                                                           method), 342
                                 (ask_smapi_model.services.skill_management.skillg_nariagevnert_stervice_rolieva1SkillMariagementSevoriceClient
                                                                                                                                                                                                                                           (ask_smapi_model.services.skill_management.skill_management]
                                method), 341
get_content_upload_by_id_v1()
                                                                                                                                                                                                                                           method), 343
                                  (ask_smapi_model.services.skill_management.skiltjent<u>an</u>iageneret_service_rotienet.SkiltManagemenetServicae_Utients)
                                                                                                                                                                                                                                            (ask_smapi_model.services.skill_management.skill_management_
                                method), 342
get_country_and_postal_code()
                                                                                                                                                                                                                                           method), 343
                                (ask\_sdk\_model.services.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_address.device\_add
                                 method), 234
                                                                                                                                                                                                                                           (ask_smapi_model.services.skill_management.skill_management_
get_device_address_service()
                                                                                                                                                                                                                                           method), 343
                                 (ask_sdk_model.services.service_client_factory.SegreiceClient#factoryon_model_slot_type_build_status_v1()
                                method), 301
                                                                                                                                                                                                                                           (ask_smapi_model.services.skill_management.skill_management_
get_device_id()
                                                                                                                                                                        module
                                                                                                                     (in
                                                                                                                                                                                                         get_interaction_model_slot_type_definition_v1()
                                ask_sdk_core.utils.request_util), 32
get_dialog_state()
                                                                                                                                                                        module
                                                                                                                                                                                                                                           (ask_smapi_model.services.skill_management.skill_management_
                                ask_sdk_core.utils.request_util), 33
                                                                                                                                                                                                                                           method), 344
get_directive_service()
                                                                                                                                                                                                         get_interaction_model_slot_type_version_v1()
```

```
(ask_smapi_model.services.skill_management.skilk|@ntanagemientleservice@tient.SkillManagementServiceClient
         method), 344
                                                                 (ask_sdk_model.services.ups.ups_service_client.UpsServiceClien
get_interaction_model_v1()
                                                                 method), 297
         (ask_smapi_model.services.skill_management.skilk@nanagenhenthservice@odient.SkillManagementServiceClient
         method), 344
                                                                 (ask_sdk_model.cause.Cause class method),
get_interaction_model_version_v1()
         (ask_smapi_model.services.skill_management.skildganangenhenthservicem@lienthskillManagementServiceClient
                                                                 (ask_sdk_model.directive.Directive
         method), 345
get_isp_associated_skills_v1()
                                                                 method), 316
         (ask_smapi_model.services.skill_management.skilt<u>gananagenhenthservicem</u>æfient.SkillManagementServiceClient
         method), 345
                                                                 (ask_sdk_model.interfaces.alexa.presentation.apl.animated_prop
get_isp_definition_v1()
                                                                 class method), 82
         (ask_smapi_model.services.skill_management.skil<del>lg@nanagenhent\s\elvicen@lient\s\ki</del>llManagementServiceClient
         method), 346
                                                                 (ask_sdk_model.interfaces.alexa.presentation.apl.command.Com
get_isp_list_for_skill_id_v1()
                                                                 class method), 86
         (ask_smapi_model.services.skill_management.skilkgsnanagenhenthservicecodient.skillManagementServiceClient
                                                                 (ask_sdk_model.interfaces.alexa.presentation.aplt.command.Com
         method), 346
get_isp_list_for_vendor_v1()
                                                                 class method), 115
         (ask_smapi_model.services.skill_management.skild<u>;ananagenhenthservice@odient</u>t.SkillManagementServiceClient
         method), 346
                                                                 (ask_sdk_model.interfaces.amazonpay.model.request.base_amazo
get_isp_summary_v1()
                                                                 class method), 132
         (ask_smapi_model.services.skill_management.skillg=ntanagententhservice@odienthskillManagementServiceClient
         method), 347
                                                                 (ask_sdk_model.interfaces.connections.entities.base_entity.BaseE
get_list() (ask_sdk_model.services.list_management.list_management@pet_list() (ask_sdk_model.services.list_management.list_management.de_sti_serviceSlient
         method), 259
                                                       get_real_child_model()
get_list_item() (ask_sdk_model.services.list_management.list_\(\mathbb{u}\) sale interfactional general starbing entrangement. () (ask_sdk_model.services.list_management.)
         method), 259
                                                                 class method), 176
get_list_management_service()
                                                       get_real_child_model()
         (ask_sdk_model.services.service_client_factory.ServiceClienttskctsalky_model.interfaces.display.hint.Hint
         method), 302
                                                                 class method), 196
get_list_of_testers_v1()
                                                       get_real_child_model()
         (ask_smapi_model.services.skill_management.skill_manage(nskt_skk_vivedelliente.fkidtMdispfaystent$davicEChiphste
         method), 347
                                                                 class method), 202
                                                       get_real_child_model()
get_lists_metadata()
         (ask_sdk_model.services.list_management.list_management<u>(askrysdk_othiothellistAlfavoægalistpltBetoxit_f</u>lällidrflextField
                                                                 class method), 203
         method), 260
get_locale()
                              (in
                                              module get_real_child_model()
         ask_sdk_core.utils.request_util), 31
                                                                 (ask\_sdk\_model.interfaces.viewport.size.viewport\_size.ViewportS
get_monetization_service()
                                                                 class method), 225
         (ask_sdk_model.services.service_client_factory.Segreice@lientFactory.d_model()
         method), 302
                                                                 (ask_sdk_model.interfaces.viewport.typed_viewport_state.TypedV
get_orientation()
                                              module
                                                                 class method), 231
                                 (in
                                                       get_real_child_model()
         ask_sdk_core.utils.viewport), 31
                                                                 (ask_sdk_model.request.Request class method),
get_plain_text_content()
                                              module
         ask_sdk_core.response_helper), 19
get_profile_email()
                                                       get_real_child_model()
         (ask_sdk_model.services.ups.ups_service_client.UpsService@kiknsdk_model.services.directive.directive.Directive
         method), 296
                                                                 class method), 236
get_profile_given_name()
                                                       get_real_child_model()
         (ask_sdk_model.services.ups.ups_service_client.UpsService@kknstdk_model.services.game_engine.recognizer.Recognizer
         method), 296
                                                                 class method), 249
get_profile_mobile_number()
                                                       get_real_child_model()
         (ask_sdk_model.services.ups.ups_service_client.UpsService@diknstdk_model.ui.card.Card class method),
         method), 296
                                                                 307
```

```
get_real_child_model()
                                                                                  get_slot_value()
                                                                                                                                                      module
                                                                                                                                  (in
             (ask_sdk_model.ui.output_speech.OutputSpeech
                                                                                               ask_sdk_core.utils.request_util), 33
             class method), 308
                                                                                  get_ssl_certificates_v1()
get_real_child_model()
                                                                                               (ask_smapi_model.services.skill_management.skill_management_
             (ask_smapi_model.v1.skill.interaction_model.slot_validatiom&tbott)\dation
             class method), 447
                                                                                 get_status_of_export_request_v1()
get_real_child_model()
                                                                                               (ask_smapi_model.services.skill_management.skill_management_
             (ask_smapi_model.v1.skill.interaction_model.value_suppliemealluoelsupplier
             class method), 448
                                                                                  get_supported_interfaces()
                                                                                                                                            (in
                                                                                                                                                      module
get_real_child_model()
                                                                                               ask_sdk_core.utils.request_util), 34
             (ask_smapi_model.v1.skill.manifest.interface.Interface_system_distance_units()
             class method), 477
                                                                                               (ask_sdk_model.services.ups.ups_service_client.UpsServiceClien
\verb|get_reminder()| (ask\_sdk\_model.services.reminder\_managementmentiad)| entertial management\_service\_client. Reminder ManagementServices. The services are also as a service for the services of the services
             method), 286
                                                                                  get_system_temperature_unit()
get_reminder_management_service()
                                                                                               (ask_sdk_model.services.ups.ups_service_client.UpsServiceClien
             (ask_sdk_model.services.service_client_factory.ServiceCliemtEthatdyy297
                                                                                 get_system_time_zone()
             method), 302
get_reminders() (ask_sdk_model.services.reminder_managementuskmidklemodahsæzeriæst.upex.upex_sdreinteRehientl&rffSamsjæse@hisbu
             method), 286
                                                                                               method), 297
get_request_handler_chain()
                                                                                 get_text_content()
                                                                                                                                                      module
             (ask_sdk_runtime.dispatch_components.request_components.skb_stlkactRequesspMrsqeplmelper), 19
                                                                                 get_timer_management_service()
                                                                                               (ask_sdk_model.services.service_client_factory.ServiceClientFac
get_request_handler_chain()
             (ask_sdk_runtime.dispatch_components.request_componentsn@thod);cRequestMapper
             method), 8
                                                                                  get_ups_service()
get_request_type()
                                                  (in
                                                                    module
                                                                                               (ask_sdk_model.services.service_client_factory.ServiceClientFac
             ask_sdk_core.utils.request_util), 31
                                                                                               method), 302
get_rich_text_content()
                                                                    module
                                                                                 get_user_id()
                                                                                                                               (in
                                                                                                                                                      module
             ask_sdk_core.response_helper), 19
                                                                                               ask_sdk_core.utils.request_util), 34
get_runtime_configuration()
                                                                                  get_utterance_data_v1()
             (ask_sdk_runtime.skill.RuntimeConfigurationBuilder
                                                                                               (ask_smapi_model.services.skill_management.skill_management_
             method), 11
                                                                                               method), 350
get_size() (in module ask_sdk_core.utils.viewport), get_vendor_list_v1()
                                                                                               (ask_smapi_model.services.skill_management.skill_management_
get_skill_enablement_status_v1()
                                                                                               method), 351
             (ask_smapi_model.services.skill_management.skilkgstanagement_stervices_thievel.SkillMankipementSencidatelient
             method), 348
                                                                                               ask_sdk_core.utils.viewport), 31
get_skill_manifest_v1()
                                                                                 get_voice_purchase_setting()
             (ask_smapi_model.services.skill_management.skill_manage(\mask_t_ssbr_vinced_clientv&dsbl.ManagentionServiceti&dteont_service_client
             method), 348
                                                                                               method), 271
                                                                                  GetContentUploadResponse
get_skill_metrics_v1()
                                                                                                                                            (class
             (ask_smapi_model.services.skill_management.skill_managensk<u>ntyne</u>apii<u>oeno</u>diekwtl.SkitkMagnagkonetngServioa@hiemopload_respons
             method), 348
get_skill_simulation_v1()
                                                                                  GetMetricDataResponse
                                                                                                                                         (class
                                                                                                                                                             in
             (ask_smapi_model.services.skill_management.skill_managemskntsneepijonocdieentlSkillMoutajesneent_Sweetijae(dhieat_response),
             method), 349
get_skill_status_v1()
                                                                                 GetReminderResponse
                                                                                                                                       (class
             (ask_smapi_model.services.skill_management.skill_managensk<u>nsa</u>kerviodel:kienti8ksilhAninakenmenutSægeine@lieent_reminder_res
             method), 349
                                                                                               280
get_skill_validations_v1()
                                                                                 GetRemindersResponse
                                                                                                                                        (class
             (ask_smapi_model.services.skill_management.skill_managemskn<u>ts.dkerviode</u>l:kierti&ksl\Mainakommuts&geine@li@ut_reminders_re
             method), 349
get_slot()
                                          (in
                                                                    module GF (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
```

ask_sdk_core.utils.request_util), 33

```
GF (ask_smapi_model.v1.skill.manifest.distribution_countri&xP\(\mathbb{D}\)isskilsmatiapi\(\mathbb{Q}\)immoderliesd.skill.manifest.distribution_countries.Distribution
          attribute), 457
                                                                           attribute), 457
GG (ask_smapi_model.v1.isp.distribution_countries.Distributionfies_model.v1.isp.distribution_countries.DistributionCountries
```

attribute), 373 attribute), 373

- GG (ask_smapi_model.v1.skill.manifest.distribution_countri&**sQ@issk<u>il</u>swiiapiQwwodlelies**d.skill.manifest.distribution_countries.Distribution attribute), 457 attribute), 457
- GH (ask smapi model.v1.isp.distribution countries.Distribution@kustniesi model.v1.isp.distribution countries.DistributionCountries attribute), 373 attribute), 373
- GH (ask_smapi_model.v1.skill.manifest.distribution_countri@sp**Qisski<u>l</u>soniapiQonoaleri.es**l.skill.manifest.distribution_countries.Distribution attribute), 457 attribute), 457
- GI (ask_smapi_model.v1.isp.distribution_countries.DistributionACTEDIficesk_sdk_model.permission_status.PermissionStatus attribute), 373 attribute), 319
- GI (ask_smapi_model.v1.skill.manifest.distribution_countriessDistribution_icountriessDistribution_countries.Distribution_countries attribute), 373 attribute), 457
- GIT (ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_respondingshiapticalskillereposkithmanifest.distribution_countries.Distribution attribute), 397 attribute), 457
- GL (ask_smapi_model.v1.isp.distribution_countries.Distribution(ask_ustniesi_model.v1.isp.distribution_countries.DistributionCountries attribute), 373 attribute), 373
- GL (ask_smapi_model.v1.skill.manifest.distribution_countri@STD\u00edistki_bootiapiConoadtr\u00edier\u00edist.distribution_countries.Distribution attribute), 457 attribute), 458
- global_request_interceptor() (ask_sdk.standard.StandardSkillBuilder method), 41
- global_request_interceptor() (ask_sdk_core.skill_builder.CustomSkillBuilder method), 25
- global_request_interceptor() (ask_sdk_core.skill_builder.SkillBuilder method), 23
- global_request_interceptor() (ask_sdk_runtime.skill_builder.AbstractSkillBuild&Y (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution method), 13
- global_response_interceptor() $(ask_sdk.standard.StandardSkillBuilder$ method), 41
- global_response_interceptor() (ask sdk core.skill builder.CustomSkillBuilder method), 25
- global_response_interceptor() (ask_sdk_core.skill_builder.SkillBuilder method), 23
- global_response_interceptor()
- method), 13
- attribute), 373
- GM (ask_smapi_model.v1.skill.manifest.distribution_countries_Pistribution_General field of the countries of attribute), 457
- GN (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 373
- GN (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries

attribute), 457

HasEntityResolutionMatch (class

attribute), 373 437

GU (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 373

- GU (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC attribute), 458
- GW (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 373
- GW (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC attribute), 458
- GY (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries attribute), 373
- Н

attribute), 458

- $\verb|H_264_41| (ask_sdk_model.interfaces.viewport.video.codecs.Codecs|$ attribute), 226
- $\verb|H_264_42| (ask_sdk_model.interfaces.viewport.video.codecs.Codecs|$ attribute), 226
- handle() (ask_sdk_core.dispatch_components.exception_components.Ab
- method), 17 handle()(ask_sdk_core.dispatch_components.request_components.Abst
- method), 16 $(ask_sdk_runtime.skill_builder.AbstractSkillBuilder$ andle() $(ask_sdk_runtime.dispatch_components.exception_components)$ method), 5
- $\verb|GM| (ask_smapi_model.v1. isp. distribution_countries. Distribution_found for a sk_sdk_runtime. dispatch_components. Request_components. A sk_sdk_runtime. dispatch_components. Request_components. A sk_sdk_runtime. dispatch_components. Request_components. Request_$ method), 4
 - ask_sdk_model.interfaces.alexa.presentation.html.handle_messag
 - HandlerInput (class in ask sdk core.handler input),

 $\texttt{GP} \ (ask_smapi_model.v1.isp. distribution_countries. DistributionCountries_smapi_model.v1.skill. interaction_model. has_entity_resolutionLountries_smapi_model.v1.skill. interaction_model. has_entity_resolutionLountries_smapi_model. has_entity_resolutionLountries_smapi_model. has_entity_r$

```
Header (class in ask_sdk_model.interfaces.custom_interface_controllutrfilleatte); 373
                                                        HN (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
                                                                 attribute), 458
Header (class in ask sdk model.services.directive.header),
                                                        horizontal (ask_sdk_model.interfaces.alexa.presentation.apl.component
Heading (class in ask_sdk_model.interfaces.geolocation.heading), attribute), 92
                                                        HostedSkillInfo
                                                                                          (class
HEADLINE_NEWS (ask_smapi_model.v1.skill.manifest.flash_briefing_gkensmlibiushbotefink_Gkihlkalexa_hosted.hosted_skill_info),
         attribute), 472
health (ask_smapi_model.v1.skill.skill_summary_apis.SkillSummats)Aipis1Metadata
                                                                                             (class
                                                                                                            in
                                                                 ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_metadata),
         attribute), 530
HEALTH_AND_FITNESS
         (ask_smapi_model.v1.skill.manifest.flash_briefingHeatre-ElsishBriefungGebreion
                                                                                              (class
                                                                 ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_permission).
         attribute), 472
                                                                 395
HealthAlias
                               (class
         ask_smapi_model.v1.skill.manifest.health_alias), HostedSkillPermissionStatus
                                                                                                  (class
         474
                                                                 ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_permission_
                                                                 396
                              (class
HealthApis
         ask_smapi_model.v1.skill.manifest.health_apis), HostedSkillPermissionType
                                                                                                 (class
         475
                                                                 ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_permission_
HealthInterface
                                 (class
         ask_smapi_model.v1.skill.manifest.health_interfacted,stedSkillRepository
                                                                                              (class
                                                                                                            in
                                                                 ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_repository),
HealthProtocolVersion
                                      (class
                                                    in
         ask_smapi_model.v1.skill.manifest.health_protocdiosetxideSkillRepositoryCredentials (class in
         476
                                                                 ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_repository_c
HealthRequest
                                (class
         ask_smapi_model.v1.skill.manifest.health_request\( \) \( \) so tedSkillRepositoryCredentialsList
                                                                 (class in ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_rep
HIDDEN (ask_sdk_model.interfaces.display.back_button_behavior.Bad\ButtonBehavior
                                                        HostedSkillRepositoryCredentialsRequest
         attribute), 191
HIGH (ask_sdk_core.utils.viewport.Density attribute), 30
                                                                 (class in ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_rep
HIGH (ask_smapi_model.v1.skill.history.confidence_bin.ConfidenceBix98
                                                        HostedSkillRepositoryInfo
                                                                                                (class
HIGH (ask_smapi_model.v1.skill.history.intent_confidence_bin.Intent@skafadenpeBinodel.v1.skill.alexa_hosted.hosted_skill_repository_i
         attribute), 418
                                                                 398
HighlightMode
                                (class
                                                   in HostedSkillRuntime
                                                                                            (class
         ask_sdk_model.interfaces.alexa.presentation.apl.highlight_msdeynapi_model.v1.skill.alexa_hosted.hosted_skill_runtime),
Hint (class in ask_sdk_model.interfaces.display.hint), HOURLY (ask_smapi_model.v1.skill.manifest.flash_briefing_update_frequent
         196
                                                                 attribute), 473
HintDirective
                                                    in householdList(ask_smapi_model.v1.skill_summary_apis.SkillSur
                                (class
         ask_sdk_model.interfaces.display.hint_directive),
                                                                 attribute), 530
                                                        HouseHoldList
                                                                                        (class
history (ask_sdk_model.services.game_engine.event_reporting_typesEventPriportingTrypesIndelTrypeskill.manifest.house_hold_list),
         attribute), 244
HK (ask_smapi_model.v1.isp.distribution_countries.Distribution@dskustniesi_model.v1.isp.distribution_countries.DistributionCountries
         attribute), 373
                                                                 attribute), 373
HK (ask_smapi_model.v1.skill.manifest.distribution_countriexP.Qisstki_bootiapi_Conoadtriesd.skill.manifest.distribution_countries.Distribution_
         attribute), 458
                                                                 attribute), 458
```

attribute), 373

attribute), 458

Index

 ${
m HM}$ (ask_smapi_model.v1.isp.distribution_countries.Distribution(ask_smapi_model.v1.isp.distribution_countries.DistributionCountries)

HM (ask_smapi_model.v1.skill.manifest.distribution_countriestIQistkilbootiapiQowodlerliest.skill.manifest.distribution_countries.Distribution

 ${
m HN}$ (ask_smapi_model.v1.isp.distribution_countries.DistributionEomHeec (ask_smapi_model.v1.skill.account_linking.access_token_sc

attribute), 373

attribute), 458

631

```
attribute), 391
                                                                                                                                                        IM (ask smapi model.v1.skill.manifest.distribution countries.Distribution
http_method_names
                                                                                                                                                                                  attribute), 458
                         (django ask sdk.skill adapter.SkillAdapter
                                                                                                                                                        Image (class in ask sdk model.interfaces.display.image),
                         attribute), 49
http_method_not_allowed()
                                                                                                                                                        Image (class in ask_sdk_model.ui.image), 307
                         (django_ask_sdk.skill_adapter.SkillAdapter
                                                                                                                                                        ImageAttributes
                                                                                                                                                                                                                                                                                                    in
                        method), 49
                                                                                                                                                                                  ask smapi model.v1.skill.image attributes),
HU (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                         attribute), 373
                                                                                                                                                        ImageDimension
                                                                                                                                                                                                                                                 (class
                                                                                                                                                                                                                                                                                                    in
HU (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributish_Choauputrinodel.v1.skill.image_dimension),
                         attribute), 458
HUB (ask_sdk_model.interfaces.viewport.mode.Mode at-
                                                                                                                                                       ImageInstance
                                                                                                                                                                                                                                                (class
                                                                                                                                                                                                                                                                                                    in
                         tribute), 229
                                                                                                                                                                                 ask_sdk_model.interfaces.display.image_instance),
HUB (ask_smapi_model.v1.skill.manifest.viewport_mode.ViewportMode)7
                         attribute), 500
                                                                                                                                                                                                                                        (class
                                                                                                                                                        ImageSize
                                                                                                                                                                                                                                                                                                     in
HUB_LANDSCAPE_LARGE
                                                                                                                                                                                  ask_sdk_model.interfaces.display.image_size),
                         (ask_sdk_core.utils.viewport.ViewportProfile
                                                                                                                                                                                  197
                         attribute), 30
                                                                                                                                                        ImageSize
                                                                                                                                                                                                                                        (class
                                                                                                                                                                                                                                                                                                    in
HUB LANDSCAPE MEDIUM
                                                                                                                                                                                 ask_smapi_model.v1.skill.image_size), 520
                         (ask sdk core.utils.viewport.ViewportProfile
                                                                                                                                                        ImageSizeUnit
                                                                                                                                                                                                                                                (class
                                                                                                                                                                                                                                                                                                    in
                         attribute), 30
                                                                                                                                                                                 ask_smapi_model.v1.skill.image_size_unit),
HUB LANDSCAPE SMALL
                         (ask_sdk_core.utils.viewport.ViewportProfile
                                                                                                                                                        IMPERIAL (ask_sdk_model.services.ups.distance_units.DistanceUnits
                         attribute), 30
                                                                                                                                                                                  attribute), 294
HUB_ROUND_SMALL (ask_sdk_core.utils.viewport.ViewportPmfthclt(ask_smapi_model.v1.skill.account_linking.account_linking_ty
                         attribute), 30
                                                                                                                                                                                 attribute), 394
HUMOR (ask_smapi_model.v1.skill.manifest.flash_briefing_genrecEtashBriefingGenreage_v1()
                         attribute), 472
                                                                                                                                                                                  (ask_smapi_model.services.skill_management.skill_management_
                                                                                                                                                                                 method), 352
                                                                                                                                                        ImportResponse
                                                                                                                                                                                                                                                 (class
                                                                                                                                                                                                                                                                                                    in
\verb|ID| (ask\_smapi\_model.v1.isp.distribution\_countries.DistributionCountries\_smapi\_model.v1.skill.import\_response), \\
                         attribute), 373
ID (ask_smapi_model.v1.skill.manifest.distribution_countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistribution@countriesnDistrib
                                                                                                                                                                                 ask_smapi_model.v1.skill.import_response_skill),
                         attribute), 458
idle (ask_sdk_model.interfaces.alexa.presentation.apl.component_vistble_on_screen_media_tag_state_enum.ComponentVisibleOnSc
                                                                                                                                                        IN (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                         attribute), 90
IDLE (ask_sdk_model.interfaces.audioplayer.player_activity.PlayerAettvikute), 373
                                                                                                                                                        IN (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution)
                         attribute), 171
                                                                                                                                                                                  attribute), 458
IdleCommand
                                                                                    (class
                                                                                                                                             in
                        ask\_sdk\_model.interfaces.alexa.presentation.apl. i \verb"ANE-DRAFFAM" and \verb"sk_smapi_model.v1.skill.beta_test.status. Status and \verb"sk_smapi_model.v1.skill.beta_test.status. Status and \verb"sk_smapi_model.v1.skill.beta_test.status. Status and \verb"sk_smapi_model.v1.skill.beta_test.status." and \verb"sk_smapi_model.v1.skill.beta_test.status. And \verb"sk_smapi_model.v1.skill.beta_test.status." and \verb"sk_smapi_model.v1.skill.beta_test.status. And \verb"sk_smapi_model.v1.skill.beta_test.status." and \verb"sk_smapi_model.v1.skill.beta_test.status. And \verb"sk_smapi_model.v1.skill.beta_test.status." and \verb"sk_smapi_model.v1.skill.beta_test.status. And \verb"sk_smapi_model.v1.skill.beta_test.status. And \verb"sk_smapi_model.v1.skill.beta_test.status.status. And \verb"sk_smapi_model.v1.skill.beta_test.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status.status
                                                                                                                                                                                 attribute), 403
                                                                                                                                                       IN_PROGRESS (ask_sdk_model.dialog_state.DialogState
IdleCommand
                                                                                    (class
                        ask_sdk_model.interfaces.alexa.presentation.aplt.idle_comrattithute), 314
                                                                                                                                                        IN_PROGRESS (ask_smapi_model.v1.catalog.upload.ingestion_status.Ing
IE (ask_smapi_model.v1.isp.distribution_countries.DistributionCounatte;bute), 364
                                                                                                                                                        IN_PROGRESS (ask_smapi_model.v1.catalog.upload.upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_status.Upload_stat
                         attribute), 373
IE (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution@theles
                                                                                                                                                        IN_PROGRESS (ask_smapi_model.v1.skill.certification.certification_status
                         attribute), 458
IL (ask_smapi_model.v1.isp.distribution_countries.DistributionCoungstribute), 405
                                                                                                                                                        IN_PROGRESS (ask_smapi_model.v1.skill.interaction_model.catalog.cata
                         attribute), 373
IL (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributionhetaltes
                                                                                                                                                        IN PROGRESS (ask smapi model.v1.skill.response status.ResponseStatu.
                         attribute), 458
IM (ask_smapi_model.v1.isp.distribution_countries.DistributionCound#te3bute), 527
```

attribute), 373

IN PROGRESS (ask smapi model.v1.skill.simulations.simulations api re

```
attribute), 511
                                                               ask_sdk_model.services.monetization.in_skill_product),
IN_PROGRESS (ask_smapi_model.v1.skill.status.Status
                                                               267
        attribute), 533
                                                      InSkillProductDefinition
IN_PROGRESS (ask_smapi_model.v1.skill.validations.validations_apiskespropsie_nstatels.WalidationskiApij@explortseExfanitsion),
        attribute), 515
IN SKILL PRODUCT SUBSCRIPTION ENDED
                                                      InSkillProductDefinitionResponse (class in
        (ask smapi model.v1.skill.manifest.event name type.EventNsknsiftapi model.v1.isp.in skill product definition response),
IN_SKILL_PRODUCT_SUBSCRIPTION_RENEWED
                                                      InSkillProductsResponse
                                                                                            (class
                                                                                                        in
         (ask_smapi_model.v1.skill.manifest.event_name_type.EventNshnsdkpmodel.services.monetization.in_skill_products_response
        attribute), 466
IN_SKILL_PRODUCT_SUBSCRIPTION_STARTED
                                                      InSkillProductSummary
                                                                                          (class
         (ask_smapi_model.v1.skill.manifest.event_name_type.EventNshmsfhapi_model.v1.isp.in_skill_product_summary),
        attribute), 466
                                                               380
INCOMPLETE (ask_smapi_model.v1.isp.status.Status at- InSkillProductSummaryResponse (class in
         tribute), 387
                                                               ask_smapi_model.v1.isp.in_skill_product_summary_response),
incompleteSessions
                                                               381
        (ask_smapi_model.v1.skill.metrics.metric.Metric InSkillProductTransactionsResponse (class
        attribute), 503
                                                               in ask_sdk_model.services.monetization.in_skill_product_transac
INCONSISTENT_ENDPOINTS
         (ask_smapi_model.v1.skill.standardized_error_coder.StandardiceldtErrianCsldemapi_model.v1.skill.instance),
        attribute), 532
INFORMATION_SERVICES
                                                      integer (ask_smapi_model.v1.skill.validation_data_types.ValidationData
         (ask smapi model.v1.isp.tax information category.TaxInformatidiateGaregory
        attribute), 390
                                                      Intent (class in ask_sdk_model.intent), 317
IngestionStatus
                                                 in Intent (class in ask_smapi_model.v1.skill.evaluations.intent),
        ask\_smapi\_model.v1.catalog.upload.ingestion\_status),
                                                               411
                                                      Intent (class in ask_smapi_model.v1.skill.history.intent),
IngestionStepName
                                 (class
                                                  in
        ask_smapi_model.v1.catalog.upload.ingestion_stepntamad)(class in ask_smapi_model.v1.skill.interaction_model.intent),
init_app() (flask_ask_sdk.skill_adapter.SkillAdapter intent_confidence_bin
                                                               (ask_smapi_model.v1.skill.history.sort_field_for_intent_request_t
        method), 47
Input (class in ask_smapi_model.v1.skill.simulations.input),
                                                               attribute), 422
         507
                                                      intent_name (ask_smapi_model.v1.skill.history.sort_field_for_intent_re
InputEvent
                             (class
                                                               attribute), 422
                                                  in
        ask_sdk_model.services.game_engine.input_event)_ntentConfidenceBin
                                                                                         (class
                                                               ask_smapi_model.v1.skill.history.intent_confidence_bin),
InputEventActionType
                                   (class
                                                  in
        ask_sdk_model.services.game_engine.input_event_action_t(ype)firmationStatus
                                                                                            (class
                                                                                                        in
                                                               ask sdk model.intent confirmation status),
InputHandlerEvent
                                                               317
                                 (class
        ask_sdk_model.services.game_engine.input_handlen_terentre,equest
                                                                                     (class
                                                                                                        in
         246
                                                               ask_sdk_model.intent_request), 318
InputHandlerEventRequest
                                      (class
                                                 in IntentRequest
                                                                                     (class
        ask_sdk_model.interfaces.game_engine.input_handler_evenuskeguasp), model.v1.skill.history.intent_request),
         204
                                                  in IntentRequestLocales
InputSource
                              (class
                                                                                         (class
                                                                                                        in
        ask_smapi_model.v1.skill.interaction_model.version.input_swskrcsnjuapi_model.v1.skill.history.intent_request_locales),
                                                               420
InSkillProduct
                               (class
                                                  in IntentRequests
                                                                                      (class
                                                                                                        in
        ask sdk model.interfaces.monetization.v1.in skill product)ask smapi model.v1.skill.history.intent requests),
         212
InSkillProduct
                               (class
                                                  in InteractionModelData
                                                                                         (class
                                                                                                        in
```

```
ask_smapi_model.v1.skill.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.interaction_model.inter
                   438
                                                                                                                                              (ask_smapi_model.v1.skill.standardized_error_code.Standardized
InteractionModelSchema
                                                                                                                                              attribute), 532
                                                                                    (class
                    ask_smapi_model.v1.skill.interaction_model.interactionh_model.interactiondel.interaction_model.interactionh_model.v1.skill.interaction_model.interactionh_model.interactionh_model.v1.skill.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_model.interactionh_mo
                                                                                                                                              (ask_smapi_model.v1.skill.standardized_error_code.Standardized
interactionType (ask_smapi_model.v1.skill.history.sort_field_fonttinibute),request_type.SortFieldForIntentRequestType
                   attribute), 422
                                                                                                                          INVALID_TOKEN (ask_sdk_model.services.ups.error_code.ErrorCode
InteractionType
                                                                                                                                              attribute), 295
                                                                         (class
                    ask_smapi_model.v1.skill.history.interaction_type_I,NVALID_URI (ask_sdk_model.services.ups.error_code.ErrorCode
                                                                                                                                              attribute), 295
                    421
Interface
                                                                (class
                                                                                                                         INVALID_URL_DOMAIN
                   ask_smapi_model.v1.skill.manifest.interface),
                                                                                                                                              (ask_smapi_model.v1.skill.standardized_error_code.Standardized
                                                                                                                                              attribute), 532
InterfaceDefinition
                                                                                                                          INVALID_URL_FORMAT
                                                                               (class
                   ask_smapi_model.v1.skill.interface_definition),
                                                                                                                                              (ask_smapi_model.v1.skill.standardized_error_code.Standardized
                    522
                                                                                                                                              attribute), 532
InterfaceIntent
                                                                                                                         \verb|INVALID_VALUE| (ask\_sdk\_model.services.ups.error\_code.ErrorCode|
                                                                         (class
                                                                                                                in
                   ask_smapi_model.v1.skill.interface_intent),
                                                                                                                                              attribute), 295
                                                                                                                          InvitationStatus
                                                                                                                                                                                                    (class
INTERNAL (ask_smapi_model.v1.skill.manifest.distribution_mode.Distrib_smapM_mbdel.v1.skill.beta_test.testers.invitation_status),
                   attribute), 462
                                                                                                                                              399
INTERNAL_SERVICE_ERROR
                                                                                                                          InvocationRequest
                                                                                                                                                                                                      (class
                                                                                                                                              ask_smapi_model.v1.skill.simulations.invocation_request),
                    (ask_sdk_model.interfaces.system.error_type.ErrorType
                   attribute), 217
INTERNAL_SERVICE_ERROR
                                                                                                                          InvocationResponse
                                                                                                                                                                                                       (class
                                                                                                                                                                                                                                          in
                    (ask_sdk_model.session_ended_error_type.SessionEndedErask<u>T</u>speapi_model.v1.skill.simulations.invocation_response),
                    attribute), 327
                                                                                                                                                       (ask_sdk_core.api_client.DefaultApiClient
InterSegment
                                                                    (class
                                                                                                                in invoke()
                                                                                                                                              method), 27
                    ask_sdk_model.interfaces.viewport.aplt.inter_segment),
                    223
                                                                                                                          invoke() (ask_sdk_core.skill.CustomSkill method), 21
INVALID_ARRAY_SIZE
                                                                                                                          invoke() (ask_sdk_model.services.api_client.ApiClient
                    (ask_smapi_model.v1.skill.standardized_error_code.Standardethd#);pap@ode
                                                                                                                          invoke() (ask_sdk_model.services.base_service_client.BaseServiceClient
                   attribute), 532
INVALID_CONTENT_TYPE
                                                                                                                                              method), 300
                    (ask_smapi_model.v1.skill.standardized_error_coder.<del>Standatyli@exlEstdrGoodd</del>el_runtime.api_client.ApiClient
                   attribute), 532
                                                                                                                                             method), 58
INVALID_DATA_TYPE
                                                                                                                          invoke() (ask_sdk_model_runtime.api_client.DefaultApiClient
                    (ask_smapi_model.v1.skill.standardized_error_code.Standardizhd#);r58Code
                    attribute), 532
                                                                                                                          invoke() (ask_sdk_model_runtime.base_service_client.BaseServiceClient
INVALID_ENUM_VALUE
                                                                                                                                              method), 61
                    (ask_smapi_model.v1.skill.standardized_error_codes$tanearritizedError@odesdk_runtime.skill.AbstractSkill
                    attribute), 532
                                                                                                                                              method), 11
INVALID IMAGE ATTRIBUTES
                                                                                                                         \verb"IO" (ask\_smapi\_model.v1.isp.distribution\_countries.DistributionCountries
                    (ask_smapi_model.v1.skill.standardized_error_code.Standardizedler)orCode
                                                                                                                          \verb|IO| (ask\_smapi\_model.v1.skill.manifest.distribution\_countries.Distribution|)|
                    attribute), 532
                                                                                                                                              attribute), 458
INVALID_INTEGER_VALUE
                    (ask_smapi_model.v1.skill.standardized_error_codestantipidfinaterColdesp.distribution_countries.DistributionCountries
                                                                                                                                              attribute), 374
                    attribute), 532
INVALID_KEY (ask_sdk_model.services.ups.error_code.Emor(asklesmapi_model.v1.skill.manifest.distribution_countries.Distribution
                                                                                                                                              attribute), 458
                    attribute), 295
```

attribute), 217

attribute), 327

INVALID_RESPONSE (ask_sdk_model.interfaces.system.elistrapirfixpdel.v1.isp.distribution_countries.DistributionCountries

INVALID_RESPONSE (ask_sdk_model.session_ended_errors_(xqsk.Sansipin_bnolledErtroskINpaanifest.distribution_countries.Distribution

attribute), 374

```
is_canfulfill_intent_name()
                                                                                                   module
                                                                                                                      JM (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                   ask_sdk_core.utils.predicate), 29
                                                                                                                                          attribute), 374
is_intent_name()
                                                                                                                      JM (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
                                                                                                   module
                   ask_sdk_core.utils.predicate), 29
                                                                                                                                          attribute), 458
is_new_session()
                                                                      (in
                                                                                                  module
                                                                                                                      \verb"JO" (ask\_smapi\_model.v1.isp.distribution\_countries.DistributionCountries
                   ask_sdk_core.utils.request_util), 34
                                                                                                                                          attribute), 374
is_request_type()
                                                                                                                      JO (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
                                                                        (in
                                                                                                  module
                   ask_sdk_core.utils.predicate), 29
                                                                                                                                          attribute), 458
IsGreaterThan
                                                                    (class
                                                                                                             in JP (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                   ask_smapi_model.v1.skill.interaction_model.is_greater_than);tribute), 374
                                                                                                                      JP (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
IsGreaterThanOrEqualTo
                                                                                                                                          attribute), 458
                                                                                 (class
                                                                                                             in
                   ask_smapi_model.v1.skill.interaction_model.is_greater_thask_smapi_ahoutel.v1.isp.currency.Currency
                   440
                                                                                                                                          tribute), 370
                                                                                                             in json_discriminator_key
IsInDuration
                                                                  (class
                   ask\_smapi\_model.v1.skill.interaction\_model.is\_in\_duration) (ask\_sdk\_model.cause.Cause) (ask\_sdk\_model.v1.skill.interaction\_model.is\_in\_duration) (ask\_sdk\_model.v1.skill.interaction\_model.is\_in\_duration) (ask\_sdk\_model.cause.Cause) (ask\_sdk\_model.v1.skill.interaction\_model.is\_in\_duration) (ask\_sdk\_model.cause.Cause) (ask\_sdk\_model.cause.Cause) (ask\_sdk\_model.cause.Cause) (ask\_sdk\_model.cause.Cause) (ask\_sdk\_model.cause.Cause) (ask\_sdk\_model.cause.Cause) (ask\_sdk\_model.cause.Cause) (ask\_sdk\_model.cause.Cause) (ask\_sdk\_model.cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Cause.Caus
                                                                                                                                                                                                                    attribute),
                                                                                                                                          312
IsInSet (class in ask_smapi_model.v1.skill.interaction_moded.is_dni_seth;iminator_key
                   441
                                                                                                                                          (ask_sdk_model.directive.Directive attribute),
IsLessThan
                                                               (class
                   ask_smapi_model.v1.skill.interaction_model.is_lesss_thamodiscriminator_key
                                                                                                                                          (ask_sdk_model.interfaces.alexa.presentation.apl.animated_prop
                                                                                                                                          attribute), 82
IsLessThanOrEqualTo
                                                                             (class
                                                                                                             in
                   ask_smapi_model.v1.skill.interaction_model.is_lesis_thandois_equiad_ito_tor_key
                   442
                                                                                                                                          (ask_sdk_model.interfaces.alexa.presentation.apl.command.Com
IsNotInDuration
                                                                       (class
                                                                                                                                          attribute), 86
                   ask_smapi_model.v1.skill.interaction_model.is_notsion_division);minator_key
                   442
                                                                                                                                          (ask_sdk_model.interfaces.alexa.presentation.aplt.command.Com
                                                                                                                                          attribute), 115
IsNotInSet
                                                               (class
                                                                                                             in
                   ask_smapi_model.v1.skill.interaction_model.is_notsiansed);scriminator_key
                   443
                                                                                                                                          (ask_sdk_model.interfaces.amazonpay.model.request.base_amazo
IspSummaryLinks
                                                                       (class
                                                                                                                                          attribute), 132
                                                                                                             in
                   ask_smapi_model.v1.isp.isp_summary_links),
                                                                                                                      json_discriminator_key
                                                                                                                                          (ask\_sdk\_model.interfaces.connections.entities.base\_entity.BaseE
IT (ask_smapi_model.v1.isp.distribution_countries.DistributionCountriesibute), 174
                   attribute), 374
                                                                                                                      json_discriminator_key
IT (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributish_Gdkuntmiasel.interfaces.connections.requests.base_request.Ba.
                   attribute), 458
                                                                                                                                          attribute), 176
ITEMS_CREATED (ask_smapi_model.v1.skill.manifest.evenij_snam_ed_iyspe://EvenitiNatmeTypeey
                   attribute), 466
                                                                                                                                         (ask_sdk_model.interfaces.display.hint.Hint
ITEMS_DELETED (ask_smapi_model.v1.skill.manifest.event_name_tapteiButen)tNameType
                   attribute), 466
                                                                                                                       json_discriminator_key
ITEMS_UPDATED (ask_smapi_model.v1.skill.manifest.event_name_tignek_ExchatNhavaheelliyterfaces.display.template.Template
                   attribute), 466
                                                                                                                                          attribute), 202
                                                                                                                       json_discriminator_key
J
                                                                                                                                          (ask_sdk_model.interfaces.display.text_field.TextField
ja_JP (ask_smapi_model.v1.skill.history.intent_request_locales.IntentRequest_Locales
                                                                                                                      json_discriminator_key
                    attribute), 420
\verb|ja_JP| (ask\_smapi\_model.v1.skill.history.locale\_in\_query.LocaleInQ(ask\_sdk\_model.interfaces.viewport.size.viewport\_size.ViewportSize.viewportSize.viewport\_size.ViewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSize.viewportSi
                                                                                                                                          attribute), 225
                   attribute), 421
JE (ask_smapi_model.v1.isp.distribution_countries.Distribution_Countries_initiator_key
                                                                                                                                          (ask sdk model.interfaces.viewport.typed viewport state.TypedV
                    attribute), 374
JE (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution#tiels
                                                                                                                      json_discriminator_key
                   attribute), 458
```

```
(ask_sdk_model.request.Request
                                             attribute), KR (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
         324
                                                                  attribute), 374
json_discriminator_key
                                                        KR (ask smapi model.v1.skill.manifest.distribution countries.Distribution
         (ask_sdk_model.services.directive.directive.Directive
                                                                  attribute), 458
         attribute), 236
                                                         KW (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
json discriminator key
                                                                  attribute), 374
         (ask_sdk_model.services.game_engine.recognizer.Re(agkizenapi_model.v1.skill.manifest.distribution_countries.Distribution
         attribute), 249
                                                                  attribute), 458
json_discriminator_key
                                                        KY (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
         (ask_sdk_model.ui.card.Card
                                             attribute),
                                                                  attribute), 374
                                                        KY (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
json_discriminator_key
                                                                  attribute), 458
         (ask_sdk_model.ui.output_speech.OutputSpeech KZ (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
         attribute), 308
                                                                  attribute), 374
json_discriminator_key
                                                        KZ (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
         (ask_smapi_model.v1.skill.interaction_model.slot_validationtstillthtd);d4500n
         attribute), 447
json_discriminator_key
         (ask\_smapi\_model.v1.skill.interaction\_model.value\_supplienveller.isp. distribution\_countries. DistributionCountries
         attribute), 448
                                                                  attribute), 374
json_discriminator_key
                                                        LA (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
         (ask_smapi_model.v1.skill.manifest.interface.Interface
                                                                  attribute), 458
         attribute), 477
                                                        lambda_handler() (ask_sdk.standard.StandardSkillBuilder
                                                                  method), 41
K
                                                         lambda_handler() (ask_sdk_core.skill_builder.CustomSkillBuilder
KE (ask_smapi_model.v1.isp.distribution_countries.DistributionCountmethod), 25
         attribute), 374
                                                         lambda_handler() (ask_sdk_core.skill_builder.SkillBuilder
KE (ask smapi model.v1.skill.manifest.distribution countries.Distributieth&durithies
         attribute), 458
                                                        LambdaEndpoint
                                                                                          (class
KEY_MASTER (ask_smapi_model.v1.skill.manifest.data_protection_paskidemdpatanDrabelestlosHibaniabenfest.lambda_endpoint),
         attribute), 453
                                                                  478
Keyboard (class in ask_sdk_model.interfaces.viewport.keyboard) daRegion
                                                                                         (class
                                                                  ask smapi model.v1.skill.manifest.lambda region),
KG (ask smapi model.v1.isp.distribution countries.DistributionCountries
                                                         LANDSCAPE
         attribute), 374
                                                                        (ask_sdk_core.utils.viewport.Orientation
KG (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributionibute)nffles
                                                         LANGUAGE_MODEL_FULL_BUILD
         attribute), 458
KH (ask_smapi_model.v1.isp.distribution_countries.DistributionCountaisk_smapi_model.v1.skill.build_step_name.BuildStepName
         attribute), 374
                                                                  attribute), 517
KH (ask_smapi_model.v1.skill.manifest.distribution_countriesADistributionMCDantriesUICK_BUILD
         attribute), 458
                                                                  (ask_smapi_model.v1.skill.build_step_name.BuildStepName
KI (ask_smapi_model.v1.isp.distribution_countries.DistributionCountriesibute), 517
         attribute), 374
                                                        LanguageModel
                                                                                          (class
KI (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributish_Goappit_rino del.v1.skill.interaction_model.language_model),
         attribute), 458
KM (ask_smapi_model.v1.isp.distribution_countries.DistributionRGbuutshessdk_core.utils.viewport.Size attribute), 30
         attribute), 374
                                                        LARGE (ask_sdk_model.interfaces.display.image_size.ImageSize
KM (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributioribute)nttes
         attribute), 458
                                                         last(ask\_sdk\_model.interfaces.alexa.presentation.apl.align.Align
KN (ask smapi model.v1.isp.distribution countries.DistributionCountries), 80
                                                        LastUpdateRequest
         attribute), 374
                                                                                             (class
                                                                                                             in
KN (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution_Goouppitrinodel.v1.skill.interaction_model.catalog.last_update
         attribute), 458
                                                         LastUpdateRequest
                                                                                             (class
                                                                                                             in
```

```
ask_smapi_model.v1.skill.last_update_request), Legacy_AudioPlayer_PlaybackNearlyFinished
        523
                                                           (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
                                                           attribute), 467
LaunchDirective
        ask_sdk_model.interfaces.videoapp.launch_directive)gacy_AudioPlayer_PlaybackPaused
                                                           (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
LaunchRequest
                                                           attribute), 467
                             (class
                                               in
        ask_sdk_model.launch_request), 318
                                                   Legacy_AudioPlayer_PlaybackResumed
LB (ask_smapi_model.v1.isp.distribution_countries.DistributionCoun(xisk_smapi_model.v1.skill.manifest.event_name_type.EventName
        attribute), 374
                                                           attribute), 467
LB (ask_smapi_model.v1.skill.manifest.distribution_countri&seDistributiontCountri&seDistributiontCountri
        attribute), 458
                                                           (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
LC (ask_smapi_model.v1.isp.distribution_countries.DistributionCountriesibute), 467
                                                   Legacy_AudioPlayer_PlaybackStutterFinished
        attribute), 374
LC (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributish_Gmapti_iesodel.v1.skill.manifest.event_name_type.EventName
        attribute), 458
                                                           attribute), 467
Legacy_ActivityManager_ActivityContextRemeyedFvAndioPlayer_PlaybackStutterStarted
        (ask_smapi_model.v1.skill.manifest.event_name_type.Event\lash_eshyppi_model.v1.skill.manifest.event_name_type.EventName
        attribute), 466
                                                           attribute), 467
Legacy_ActivityManager_ActivityInterruptadgacy_AudioPlayerGui_ButtonClickedEvent
        (ask_smapi_model.v1.skill.manifest.event_name_type.Event\tash_eshpppi_model.v1.skill.manifest.event_name_type.EventName
        attribute), 466
                                                           attribute), 466
Legacy_ActivityManager_FocusChanged
                                                   Legacy_AudioPlayerGui_LyricsViewedEvent
        (ask_smapi_model.v1.skill.manifest.event_name_type.Event\lash_eMpppi_model.v1.skill.manifest.event_name_type.EventName
        attribute), 466
                                                           attribute), 466
Legacy_AlertsController_DismissCommand Legacy_AuxController_DirectionChanged
        (ask_smapi_model.v1.skill.manifest.event_name_type.EventNash_eShyppi_model.v1.skill.manifest.event_name_type.EventName
        attribute), 466
                                                           attribute), 467
Legacy_AlertsController_SnoozeCommand
                                                   Legacy_AuxController_EnabledStateChanged
        (ask_smapi_model.v1.skill.manifest.event_name_type.EventNasheshppi_model.v1.skill.manifest.event_name_type.EventName
        attribute), 466
                                                           attribute), 467
Legacy_AudioPlayer_AudioStutter
                                                   Legacy_AuxController_InputActivityStateChanged
        (ask_smapi_model.v1.skill.manifest.event_name_type.EventNash_shppi_model.v1.skill.manifest.event_name_type.EventName
                                                           attribute), 467
        attribute), 466
Legacy_AudioPlayer_InitialPlaybackProgre&egepyrAuxController_PluggedStateChanged
        (ask_smapi_model.v1.skill.manifest.event_name_type.EventNash_shappi_model.v1.skill.manifest.event_name_type.EventName
        attribute), 466
                                                           attribute), 467
Legacy_AudioPlayer_Metadata
                                                   Legacy_BluetoothNetwork_CancelPairingMode
        (ask_smapi_model.v1.skill.manifest.event_name_type.Event\tash_eshpppi_model.v1.skill.manifest.event_name_type.EventName
        attribute), 466
                                                           attribute), 467
Legacy_AudioPlayer_PeriodicPlaybackPrograepoBtuetoothNetwork_DeviceConnectedFailure
        (ask_smapi_model.v1.skill.manifest.event_name_type.Event\tash_eshpppi_model.v1.skill.manifest.event_name_type.EventName
        attribute), 466
                                                           attribute), 467
Legacy_AudioPlayer_PlaybackError
                                                   Legacy_BluetoothNetwork_DeviceConnectedSuccess
```

(ask_smapi_model.v1.skill.manifest.event_name_type.Event**Nash_Typp**i_model.v1.skill.manifest.event_name_type.EventName attribute), 467 attribute), 467

(ask_smapi_model.v1.skill.manifest.event_name_type.Event**\lash_eshypp**i_model.v1.skill.manifest.event_name_type.EventName

(ask_smapi_model.v1.skill.manifest.event_name_type.Event**\lash_eshypp**i_model.v1.skill.manifest.event_name_type.EventName

(ask_smapi_model.v1.skill.manifest.event_name_type.Event**\lash_eshypp**i_model.v1.skill.manifest.event_name_type.EventName

attribute), 467

attribute), 467

attribute), 467

Legacy_BluetoothNetwork_DeviceDisconnectedFailure

Legacy_BluetoothNetwork_DeviceDisconnectedSuccess

Index 637

Legacy_AudioPlayer_PlaybackInterrupted Legacy_BluetoothNetwork_DevicePairFailure

attribute), 467

attribute), 467

attribute), 467

Legacy_AudioPlayer_PlaybackFinished

Legacy_AudioPlayer_PlaybackIdle

- Legacy_BluetoothNetwork_DevicePairSuccessegacy_DeviceNotification_SetNotificationFailed

 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_strippei_model.v1.skill.manifest.event_name_type.EventName_attribute), 467

 attribute), 468
- Legacy_BluetoothNetwork_DeviceUnpairFailLegacy_DeviceNotification_SetNotificationSucceeded (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 467 attribute), 468
- Legacy_BluetoothNetwork_DeviceUnpairSucchegacy_EqualizerController_EqualizerChanged (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 467 attribute), 468
- Legacy_BluetoothNetwork_EnterPairingModeEaġauyeExternalMediaPlayer_AuthorizationComplete
 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 467

 attribute), 468
- Legacy_BluetoothNetwork_EnterPairingModeSegaessExternalMediaPlayer_Error

 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_typei_model.v1.skill.manifest.event_name_type.EventName_attribute), 467

 attribute), 468
- Legacy_BluetoothNetwork_MediaControlFailinegacy_ExternalMediaPlayer_Event (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 467 attribute), 468
- Legacy_BluetoothNetwork_MediaControlSucceegacy_ExternalMediaPlayer_Login
 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 467

 attribute), 468
- Legacy_BluetoothNetwork_ScanDevicesReportegacy_ExternalMediaPlayer_Logout

 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 467

 attribute), 468
- Legacy_BluetoothNetwork_SetDeviceCategoriegEailEnternalMediaPlayer_ReportDiscoveredPlayers (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 467 attribute), 468
- Legacy_BluetoothNetwork_SetDeviceCategoriegavyceedednalMediaPlayer_RequestToken
 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 467

 attribute), 468
- Legacy_ContentManager_ContentPlaybackTermegatgdFavoritesController_Error

 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 467

 attribute), 468
- Legacy_DeviceNotification_DeleteNotificaLegaEşiEedoritesController_Response

 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_typei_model.v1.skill.manifest.event_name_type.EventName_attribute), 467

 attribute), 468
- Legacy_DeviceNotification_DeleteNotificatega8ycGemdEndgine_GameInputEvent

 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_stribute), 467

 attribute), 468
- Legacy_DeviceNotification_NotificationEntegedPathmentedWifiController_DeviceReconnected

 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 467

 attribute), 468
- Legacy_DeviceNotification_NotificationEntegedFoHgmeAntdoWifiController_HttpNotified

 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 467

 attribute), 468
- Legacy_DeviceNotification_NotificationStargedy_HomeAutoWifiController_SsdpDiscoveryFinished
 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 467

 attribute), 468
- Legacy_DeviceNotification_NotificationStbpgedy_HomeAutoWifiController_SsdpServiceDiscovered (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 468

 attribute), 468
- Legacy_DeviceNotification_NotificationSyfiegacy_HomeAutoWifiController_SsdpServiceTerminated (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 468

 attribute), 468

- Legacy_ListModel_AddItemRequest Legacy_MediaPlayer_PlaybackStarted
 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 468

 Legacy_MediaPlayer_PlaybackStarted
 attributer_PlaybackStarted
 att
- Legacy_ListModel_DeleteItemRequest Legacy_MediaPlayer_PlaybackStopped

 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_type.EventName_attribute), 468

 Legacy_MediaPlayer_PlaybackStopped

 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 469
- Legacy_ListModel_GetPageByOrdinalRequestLegacy_MediaPlayer_SequenceItemsRequested

 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 468

 attribute), 469
- Legacy_ListModel_GetPageByTokenRequest Legacy_MediaPlayer_SequenceModified

 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 468

 attribute), 469
- Legacy_ListModel_ListStateUpdateRequest Legacy_MeetingClientController_Event (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 468 attribute), 469
- Legacy_ListModel_UpdateItemRequest Legacy_Microphone_AudioRecording

 (ask_smapi_model.v1.skill.manifest.event_name_type.EventNasheshpapi_model.v1.skill.manifest.event_name_type.EventName
 attribute), 468

 attribute), 469
- Legacy_ListRenderer_GetListPageByOrdinalLegacy_PhoneCallController_Event
 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 468
 attribute), 469
- Legacy_ListRenderer_GetListPageByToken Legacy_PlaybackController_ButtonCommand

 (ask_smapi_model.v1.skill.manifest.event_name_type.EventNushesfryppi_model.v1.skill.manifest.event_name_type.e
- Legacy_ListRenderer_ListItemEvent Legacy_PlaybackController_LyricsViewedEvent (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 468 attribute), 469
- Legacy_MediaGrouping_GroupChangeNotificaLegaEyeRtaybackController_NextCommand

 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_typei_model.v1.skill.manifest.event_name_type.EventName_attribute), 468

 attribute), 469
- Legacy_MediaGrouping_GroupChangeResponseE@gaty_PlaybackController_PauseCommand

 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 468

 attribute), 469
- Legacy_MediaGrouping_GroupSyncEvent Legacy_PlaybackController_PlayCommand

 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 468

 Legacy_PlaybackController_PlayCommand

 attribute_Name_type.EventName_attribute_Name_type.EventName_attribute), 469
- Legacy_MediaPlayer_PlaybackError Legacy_PlaybackController_PreviousCommand
 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 468

 attribute), 469
- Legacy_MediaPlayer_PlaybackFinished Legacy_PlaybackController_ToggleCommand (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 468 attribute), 469
- Legacy_MediaPlayer_PlaybackNearlyFinishedegacy_PlaylistController_Response
 (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_type.EventName_typei_model.v1.skill.manifest.event_name_type.EventName_attribute), 468

 attribute), 469
- Legacy_MediaPlayer_PlaybackPaused Legacy_Presentation_PresentationDismissedEvent (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 469

 Legacy_Presentation_PresentationDismissedEvent attribute.

 Legacy_Presentation_PresentationDismissedEvent attribute.

 Legacy_Presentation_PresentationDismissedEvent attribute.
- Legacy_MediaPlayer_PlaybackResumed Legacy_Presentation_PresentationUserEvent (ask_smapi_model.v1.skill.manifest.event_name_type.EventName_attribute), 469 attribute), 469

```
Legacy_SconeRemoteControl_Next
                                                     LI (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
         (ask_smapi_model.v1.skill.manifest.event_name_type.EventMatrileiTyp)e374
                                                     LI (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution@
        attribute), 469
Legacy_SconeRemoteControl_PlayPause
                                                              attribute), 459
         (ask_smapi_model.v1.skill.manifest.event_name_type:EventNam(eFkpsmapi_model.v1.skill.manifest.flash_briefing_genre.Flas
        attribute), 469
                                                              attribute), 472
Legacy_SconeRemoteControl_Previous
                                                     LightAnimation
                                                                                     (class
         (ask_smapi_model.v1.skill.manifest.event_name_type.EventNsknsdkpmodel.services.gadget_controller.light_animation),
        attribute), 469
{\tt Legacy\_SconeRemoteControl\_VolumeDown}
                                                     line (ask_sdk_model.interfaces.alexa.presentation.apl.highlight_mode.Hi
         (ask_smapi_model.v1.skill.manifest.event_name_type.Event\( \mathbb{Natribe(Typ)} \) e 95
                                                     Link (class in ask_smapi_model.v1.link), 540
        attribute), 469
Legacy_SconeRemoteControl_VolumeUp
                                                     LinkAccountCard
                                                                                                       in
         (ask_smapi_model.v1.skill.manifest.event_name_type.EventNshnsdkpmodel.ui.link_account_card), 307
        attribute), 469
                                                     \verb|Links| (class in ask\_sdk\_model.services.list\_management.links)|,
Legacy_SipClient_Event
                                                               253
        (ask_smapi_model.v1.skill.manifest.event_name_typenEventNtsmirTypsk_smapi_model.v1.links), 541
                                                     Links (class in ask_smapi_model.v1.skill.interaction_model.version.links)
        attribute), 469
Legacy_SoftwareUpdate_CheckSoftwareUpdateReport431
         (ask_smapi_model.v1.skill.manifest.event_name_typestyeetytestyeetypesk_smapi_model.v1.skill.manifest.event_name_type.Ev
        attribute), 469
                                                              attribute), 466
Legacy_SoftwareUpdate_InitiateSoftwareUpdateTED (ask_smapi_model.v1.skill.manifest.event_name_type.Ev
         (ask_smapi_model.v1.skill.manifest.event_name_type.Event\(\mathbb{D}\)(tatribe(\overline{D})\(\overline{Q}\))\(\overline{Q}\)
        attribute), 469
                                                     list_interaction_model_catalogs_v1()
Legacy_Speaker_MuteChanged
                                                               (ask_smapi_model.services.skill_management.skill_management_
         (ask_smapi_model.v1.skill.manifest.event_name_type.Event\natheti\)p&52
        attribute), 469
                                                     list_interaction_model_slot_type_versions_v1()
Legacy_Speaker_VolumeChanged
                                                               (ask_smapi_model.services.skill_management.skill_management_
        (ask\_smapi\_model.v1.skill.manifest.event\_name\_type.Event \textit{Nnathor} B)p \& 52
                                                     list_interaction_model_slot_types_v1()
        attribute), 469
Legacy_SpeechRecognizer_WakeWordChanged
                                                               (ask_smapi_model.services.skill_management.skill_management_
         (ask_smapi_model.v1.skill.manifest.event_name_type.EventNnathoT)p&53
                                                     list_interaction_model_versions_v1()
        attribute), 469
Legacy_SpeechSynthesizer_SpeechFinished
                                                              (ask_smapi_model.services.skill_management.skill_management_
         (ask_smapi_model.v1.skill.manifest.event_name_type.Event\nather.)p&53
        attribute), 469
                                                     list_private_distribution_accounts_v1()
Legacy_SpeechSynthesizer_SpeechInterrupted
                                                              (ask_smapi_model.services.skill_management.skill_management]
         (ask_smapi_model.v1.skill.manifest.event_name_type.Event\natheta)p&54
        attribute), 469
                                                     list_skills_for_vendor_v1()
Legacy_SpeechSynthesizer_SpeechStarted
                                                              (ask_smapi_model.services.skill_management.skill_management_
         (ask_smapi_model.v1.skill.manifest.event_name_type.Event\( \) hather \( \) p&54
        attribute), 469
                                                     LIST_UPDATED (ask_smapi_model.v1.skill.manifest.event_name_type.Ev
Legacy_SpeechSynthesizer_SpeechSynthesizerErromattribute), 466
         (ask_smapi_model.v1.skill.manifest.event_name_typesEneretyonalsypin ask_sdk_model.services.list_management.list_body),
                                                              253
        attribute), 469
Legacy_Spotify_Event
                                                     ListCatalogResponse
                                                                                         (class
         (ask_smapi_model.v1.skill.manifest.event_name_type.EventNshnsifigpi_model.v1.skill.interaction_model.catalog.list_catalog
        attribute), 469
Legacy_System_UserInactivity
                                                     {\tt ListCertificationsResponse}
                                                                                             (class
```

Legacy_UDPController_BroadcastResponse ListCreatedEventRequest

attribute), 470

 $attribute),\,470$

(ask_smapi_model.v1.skill.manifest.event_name_type.EventNsh_nshppi_model.v1.skill.certification.list_certifications_respons 407

(ask_smapi_model.v1.skill.manifest.event_name_type.EventNsknedkpmodel.services.list_management.list_created_event_requ

254

(class

```
ListDeletedEventRequest
                                                                                     (class
                                                                                                                                              attribute), 142
                                                                                                                in
                    ask_sdk_model.services.list_management.list_deletadv@(\(\mathebe{e}\) ask_sdk_model.interfaces.amazonpay.model.v1.release_environmen
                                                                                                                                              attribute), 152
                                                                                                                         \verb|LIVE| (ask\_sdk\_model.services.monetization.purchase\_mode.PurchaseModel.services.monetization.purchase\_mode.PurchaseModel.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_model.services.monetization.purchase\_mod
ListInSkillProduct
                                                                             (class
                    ask_smapi_model.v1.isp.list_in_skill_product),
                                                                                                                                              attribute), 272
                                                                                                                         LIVE (ask_sdk_model.services.proactive_events.skill_stage.SkillStage
ListInSkillProductResponse
                                                                                                                                              attribute), 277
                                                                                          (class
                                                                                                                in
                    ask_smapi_model.v1.isp.list_in_skill_product_response), (ask_smapi_model.v1.isp.stage.Stage attribute),
ListItem (class in ask_sdk_model.interfaces.display.list_item) (ask_smapi_model.v1.skill.metrics.stage_for_metric.StageForMetric
                                                                                                                                              attribute), 504
ListItemBody
                                                                                                                                                     (ask_smapi_model.v1.stage_type.StageType
                                                                    (class
                                                                                                                in live
                   ask_sdk_model.services.list_management.list_item_body), attribute), 541
                                                                                                                         live (ask_smapi_model.v1.stage_v2_type.StageV2Type
ListItemsCreatedEventRequest
                                                                                                                                              attribute), 541
                                                                                            (class
                                                                                                                in
                    ask\_sdk\_model.services.list\_management.list\_iten \underline{\textbf{\textit{ist}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}\_\textbf{\textit{exskt}}
                                                                                                                                              attribute), 374
ListItemsDeletedEventRequest
                                                                                            (class
                                                                                                                 in LK (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution@
                    ask_sdk_model.services.list_management.list_items_deletedatevibuttered;
                                                                                                                         LocalApplication_Alexa_Translation_LiveTranslation_
ListItemState
                                                                     (class
                                                                                                                 in
                                                                                                                                              (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
                   ask_sdk_model.services.list_management.list_item_state), attribute), 470
                                                                                                                         LocalApplication_AlexaNotifications_Event
ListItemsUpdatedEventRequest
                                                                                                                                              (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
                                                                                            (class
                    ask_sdk_model.services.list_management.list_items_updatedttevleute);e4710st),
                                                                                                                         {\tt LocalApplication\_AlexaPlatformTestSpeechlet\_Event}
ListManagementServiceClient
                                                                                                                                              (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
                                                                                           (class
                   ask_sdk_model.services.list_management.list_management_asteribate_c;llent),
                                                                                                                         LocalApplication_AlexaVision_Event
ListPrivateDistributionAccountsResponse
                                                                                                                                              (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
                    (class in ask_smapi_model.v1.skill.private.list_private_distridutibut@)ç&dunts_response),
                    505
                                                                                                                         LocalApplication_AlexaVoiceLayer_Event
ListResponse
                                                                                                                                              (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
                    ask_smapi_model.v1.skill.interaction_model.version.list_resptorise(), 470
                                                                                                                         LocalApplication_AvaPhysicalShopping_Event
ListSkillResponse
                                                                                                                                              (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
                                                                            (class
                                                                                                                in
                    ask_smapi_model.v1.skill.list_skill_response),
                                                                                                                                              attribute), 470
                    524
                                                                                                                         LocalApplication_Calendar_Event
ListState
                                                                (class
                                                                                                                                              (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
                                                                                                                 in
                    ask_sdk_model.services.list_management.list_state),
                                                                                                                                              attribute), 470
                                                                                                                         LocalApplication_Closet_Event
ListTemplate1
                                                                                                                                              (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
                                                                      (class
                                                                                                                 in
                   ask_sdk_model.interfaces.display.list_template1),
                                                                                                                                              attribute), 470
                    198
                                                                                                                         LocalApplication_Communications_Event
                                                                                                                                              (ask\_smapi\_model.v1.skill.manifest.event\_name\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_type.EventName\_typ
ListTemplate2
                                                                      (class
                                                                                                                in
                    ask_sdk_model.interfaces.display.list_template2),
                                                                                                                                              attribute), 470
                    199
                                                                                                                         LocalApplication_DeviceMessaging_Event
                                                                                                                                              (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
ListTestersResponse
                                                                               (class
                                                                                                                in
                    ask_smapi_model.v1.skill.beta_test.testers.list_testers_respontseihute), 470
                                                                                                                          LocalApplication_DigitalDash_Event
                                                                                                                                              (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
ListUpdatedEventRequest
                                                                                     (class
                                                                                                                 in
                   ask_sdk_model.services.list_management.list_updated_evenattrebutes);),470
                                                                                                                         LocalApplication_FireflyShopping_Event
LIVE (ask_sdk_model.interfaces.amazonpay.model.response.release_@mskircsmrapint_iRolladseEnkiHommoneifest.event_name_type.EventName
```

```
attribute), 470
                                                                attribute), 470
LocalApplication_Gallery_Event
                                                       locale (ask_smapi_model.v1.skill.history.sort_field_for_intent_request_t
         (ask_smapi_model.v1.skill.manifest.event_name_type.Event\(\mathbf{NtarileiItyp}\)e 422
         attribute), 470
                                                       LocaleInQuery
                                                                                       (class
                                                                                                          in
                                                                ask_smapi_model.v1.skill.history.locale_in_query),
LocalApplication_HHOPhotos_Event
         (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType
         attribute), 470
                                                       LocalizedFlashBriefingInfo
                                                                ask_smapi_model.v1.skill.manifest.localized_flash_briefing_info)
LocalApplication_HomeAutomationMedia_Event
         (ask_smapi_model.v1.skill.manifest.event_name_type.EventNumeType
                                                       {\tt LocalizedFlashBriefingInfoItems} (class in
         attribute), 470
LocalApplication_KnightContacts_Event
                                                                ask_smapi_model.v1.skill.manifest.localized_flash_briefing_info_
         (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType
                                                       LocalizedHealthInfo
         attribute), 470
                                                                                           (class
                                                                                                          in
                                                                ask_smapi_model.v1.skill.manifest.localized_health_info),
LocalApplication_KnightHome_Event
         (ask_smapi_model.v1.skill.manifest.event_name_type.EventNoneType
         attribute), 470
                                                       LocalizedMusicInfo
                                                                                          (class
                                                                                                          in
LocalApplication_KnightHomeThingsToTry_Event
                                                                ask_smapi_model.v1.skill.manifest.localized_music_info),
         (ask_smapi_model.v1.skill.manifest.event_name_type.EventNoneType
         attribute), 470
                                                       LocalizedPrivacyAndCompliance (class in
LocalApplication_LocalMediaPlayer_Event
                                                                ask_smapi_model.v1.isp.localized_privacy_and_compliance),
         (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType
         attribute), 470
                                                       LocalizedPublishingInformation (class in
LocalApplication_LocalVoiceUI_Event
                                                                ask_smapi_model.v1.isp.localized_publishing_information),
         (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType
         attribute), 470
                                                       Location (class in ask_smapi_model.v1.catalog.upload.location),
LocalApplication_MShop_Event
                                                                365
         (ask_smapi_model.v1.skill.manifest.event_name_type:ExtentNameType:es
                                                                                         (class
                                                                                                          in
         attribute), 470
                                                                ask_sdk_model.interfaces.geolocation.location_services),
LocalApplication_MShopPurchasing_Event
         (ask_smapi_model.v1.skill.manifest.event_name_fypenHvasht_NdhaeBypeattils.viewport.Density attribute), 30
                                                       LOW (ask_smapi_model.v1.skill.history.confidence_bin.ConfidenceBin
LocalApplication_NotificationsApp_Event
                                                                attribute), 417
         (ask_smapi_model.v1.skill.manifest.event_name_fypeM{usktNumpf{ype}del.v1.skill.history.intent_confidence_bin.IntentConfide
         attribute), 470
                                                                attribute), 418
                                                       \verb|LR| (ask\_smapi\_model.v1.isp.distribution\_countries.DistributionCountries|
LocalApplication_Photos_Event
         (ask_smapi_model.v1.skill.manifest.event_name_type.Event\(\mathbb{Ntarile(I)\(\mathbb{P}\)\)) \(2374\)
         attribute), 470
                                                       LR (ask smapi model.v1.skill.manifest.distribution countries.Distribution
LocalApplication_Sentry_Event
                                                                attribute), 459
         (ask_smapi_model.v1.skill.manifest.event_name_fyse(EskenstNapieTrypdel.v1.isp.distribution_countries.DistributionCountries
                                                                attribute), 374
         attribute), 470
LocalApplication_SipClient_Event
                                                       LS (ask smapi model.v1.skill.manifest.distribution countries.Distribution
         (ask_smapi_model.v1.skill.manifest.event_name_type.Event\(\mathbb{Ntarile(I)\(\mathbb{P}\)\) \(459\)
         attribute), 470
                                                       LT (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
LocalApplication_SipUserAgent_Event
                                                                attribute), 374
         (ask_smapi_model.v1.skill.manifest.event_name_tyte(EskensthapieTnypdel.v1.skill.manifest.distribution_countries.Distribution
         attribute), 470
                                                                attribute), 459
LocalApplication_todoRenderer_Event
                                                       LU (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
         (ask_smapi_model.v1.skill.manifest.event_name_type.Event\(\mathbb{D}\)(tarile\(\mathbb{D}\)(tarile\(\mathbb{D}\)) = 374
         attribute), 470
                                                       LU (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution@
LocalApplication_VideoExperienceService_Event attribute), 459
         (ask_smapi_model.v1.skill.manifest.event_name_fype(EskensthapieTrypdel.v1.isp.distribution_countries.DistributionCountries
```

(ask smapi model.v1.skill.manifest.event name type.Event.WatnileIIxp)e 459

attribute), 374

LV (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC

attribute), 470

LocalApplication_WebVideoPlayer_Event

attribute), 166

MEDIA ERROR INTERNAL DEVICE ERROR

(ask_sdk_model.interfaces.audioplayer.error_type.ErrorType

LWA CREDENTIALS GRANT TYPE

attribute), 265

attribute), 459

(ask_sdk_model.services.lwa.lwa_client.LwaClient

```
LWA_CREDENTIALS_GRANT_TYPE
                                                                                                                                                                              MEDIA_ERROR_INTERNAL_SERVER_ERROR
                             (ask_sdk_model_runtime.lwa.lwa_client.LwaClient
                                                                                                                                                                                                            (ask_sdk_model.interfaces.audioplayer.error_type.ErrorType
                             attribute), 57
                                                                                                                                                                                                           attribute), 166
                                                                                                                                                                 in MEDIA ERROR INVALID REQUEST
LwaClient
                                                                                            (class
                                                                                                                                                                                                           (ask_sdk_model.interfaces.audioplayer.error_type.ErrorType
                             ask_sdk_model.services.lwa.lwa_client),
                                                                                                                                                                                                            attribute), 166
                             265
                                                                                                                                                                  in MEDIA_ERROR_SERVICE_UNAVAILABLE
LwaClient
                                                                                            (class
                             ask_sdk_model_runtime.lwa.lwa_client),
                                                                                                                                                                                                            (ask_sdk_model.interfaces.audioplayer.error_type.ErrorType
                                                                                                                                                                                                           attribute), 166
LY (ask_smapi_model.v1.isp.distribution_countries.Distribution_Cauderror_UNKNOWN
                             attribute), 374
                                                                                                                                                                                                            (ask_sdk_model.interfaces.audioplayer.error_type.ErrorType
LY (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributioribute)ntless
                             attribute), 459
                                                                                                                                                                              MediaCommandType
                                                                                                                                                                                                                                                                                          (class
                                                                                                                                                                                                                                                                                                                                                in
                                                                                                                                                                                                            ask_sdk_model.interfaces.alexa.presentation.apl.media_command
M
\texttt{MA} \ (ask\_smapi\_model.v1. isp. distribution\_countries. DistribuMEn \texttt{CUMn} (ask\_sdk\_core.utils.viewport. Density\ attribute),
                             attribute), 374
MA (ask_smapi_model.v1.skill.manifest.distribution_countrite.DisHAblandnesutils.viewport.Size attribute), 30
                                                                                                                                                                              MEDIUM (ask_sdk_model.interfaces.display.image_size.ImageSize
                             attribute), 459
                                                                                                                                                                                                            attribute), 198
ManifestGadgetSupport
                                                                                                                      (class
                                                                                                                                                                 in
                            ask\_smapi\_model.v1.skill.manifest\_manifest\_gadg \cite{Main} \cit
                                                                                                                                                                                                            attribute), 417
                                                                                                                                                                              MEDIUM (ask_smapi_model.v1.skill.history.intent_confidence_bin.IntentCo
MANUAL_PUBLISHING
                             (ask_smapi_model.v1.skill.publication_method.PublicationMethbute), 419
                                                                                                                                                                              MerchantInitiatedTransaction
                            attribute), 525
                                                                                                                                                                                                           (ask_sdk_model.interfaces.amazonpay.model.request.billing_agre
MarketplacePricing
                                                                                                               (class
                                                                                                                                                                in
                                                                                                                                                                                                           attribute), 133
                             ask smapi model.v1.isp.marketplace pricing),
                                                                                                                                                                              MerchantInitiatedTransaction
matches (ask_sdk_model.services.game_engine.event_reporting_typerEventReportalizations.amazonpay.model.v1.billing_agreement
                                                                                                                                                                                                           attribute), 149
                             attribute), 244
                                                                                                                                                               (in MessageReceivedRequest
                                                                                                                                                                                                                                                                                                       (class
                                                                                                                                                                                                                                                                                                                                               in
MAX TIMESTAMP TOLERANCE IN MILLIS
                                                                                                                                                                                                           ask_sdk_model.interfaces.messaging.message_received_request),
                            module ask_sdk_webservice_support.verifier_constants),
MAYBE (ask_sdk_model.canfulfill.can_fulfill_intent_values. Confidential threat wastes
                                                                                                                                                                                                                                                                                     (class
                                                                                                                                                                                                           ask_sdk_model.interfaces.alexa.presentation.html.message_reque
                             attribute), 67
\verb|MAYBE| (ask\_sdk\_model.canfulfill.can\_understand\_slot\_values. CanUnderstandSlotValues)|
                                                                                                                                                                              Messaging_MessageReceived
                             attribute), 68
                                                                                                                                                                                                            (ask smapi model.v1.skill.manifest.event name type.EventName
MB (ask_smapi_model.v1.skill.image_size_unit.ImageSizeUnit
                                                                                                                                                                                                            attribute), 471
                             attribute), 521
\verb|MC| (ask\_smapi\_model.v1. isp. distribution\_countries. Distribution @Countries @Count
                                                                                                                                                                                                            (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
                             attribute), 374
MC (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributionbuthites
                                                                                                                                                                              MessagingController_UpdateMessagesStatusRequest
                             attribute), 459
\texttt{MD} \ (ask\_smapi\_model.v1.isp. distribution\_countries. DistributionCountares\_smapi\_model.v1.skill.manifest.event\_name\_type. EventNames_type. DistributionCountares_type. DistributionC
                                                                                                                                                                                                           attribute), 470
                             attribute), 374
(ask_smapi_model.v1.skill.manifest.event_name_type.EventName
                            attribute), 459
ME (ask_smapi_model.v1.isp.distribution_countries.DistributionCounf#te;bute), 470
                                                                                                                                                                              MessagingController_UploadConversations
                             attribute), 374
\texttt{ME} \ (ask\_smapi\_model.v1.skill.manifest.distribution\_countries.Distributish(\texttt{Struppi-ins}) odel.v1.skill.manifest.event\_name\_type.EventName(\texttt{Name-ins}) and \texttt{Name-ins}) and \texttt{Name-ins} are the properties of the properties
```

Index 643

```
Metadata (class in ask_sdk_model.interfaces.videoapp.metadata), attribute), 30
                                                                                                                 MOBILE PORTRAIT MEDIUM
Metadata (class in ask_sdk_model.services.monetization.metadata),(ask_sdk_core.utils.viewport.ViewportProfile
                                                                                                                                    attribute), 31
METRIC (ask_sdk_model.services.ups.distance_units.Distant@Batte_PORTRAIT_SMALL
                  attribute), 294
                                                                                                                                    (ask_sdk_core.utils.viewport.ViewportProfile
Metric (class in ask smapi model.v1.skill.metrics.metric),
                                                                                                                                    attribute), 30
                                                                                                                 MODAL (ask_smapi_model.v1.skill.history.interaction_type.InteractionType
Metrics (class in ask_smapi_model.v1.skill.simulations.metrics),
                                                                                                                                    attribute), 421
                                                                                                                 Mode (class in ask_sdk_model.interfaces.viewport.mode),
MF (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries)
                                                                                                                 MonetizationServiceClient
                  attribute), 374
MF (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution_abl.services.monetization.monetization_service_clien
                  attribute), 459
                                                                                                                                     269
MG (ask_smapi_model.v1.isp.distribution_countries.DistributionCHIPM(iask_smapi_model.v1.isp.subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.Subscription_payment_frequency.S
                  attribute), 374
                                                                                                                                     attribute), 388
MG (ask_smapi_model.v1.skill.manifest.distribution_countritsCDEstribution@Banaids_smapi_model.v1.skill.reason.Reason
                  attribute), 459
                                                                                                                                    attribute), 525
MH (ask_smapi_model.v1.isp.distribution_countries.Distribution@@untries.comProperty
                                                                                                                                                                                              (class
                  attribute), 374
                                                                                                                                    ask_sdk_model.interfaces.alexa.presentation.apl.move_transform
MH (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
                  attribute), 459
                                                                                                                 MP (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
MISSING_REQUIRED_PROPERTY
                                                                                                                                     attribute), 375
                   (ask smapi model.v1.skill.standardized error coMeStaskdandipidEvonbeColdskill.manifest.distribution countries.Distribution
                  attribute), 532
                                                                                                                                    attribute), 459
MK (ask_smapi_model.v1.isp.distribution_countries.Distribution(ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                  attribute), 374
                                                                                                                                     attribute), 375
MK (ask_smapi_model.v1.skill.manifest.distribution_countries Distribution_Countries.Distribution_Countries.Distribution
                  attribute), 459
                                                                                                                                    attribute), 459
ML (ask_smapi_model.v1.isp.distribution_countries.Distribution(ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                  attribute), 375
                                                                                                                                     attribute), 375
ML (ask_smapi_model.v1.skill.manifest.distribution_countrivSEQistk<u>i</u>bootiapiConoadtriesd.skill.manifest.distribution_countries.Distribution
                  attribute), 459
                                                                                                                                     attribute), 459
MM (ask_smapi_model.v1.isp.distribution_countries.Distribut@nastniepsi_model.v1.isp.distribution_countries.DistributionCountries
                   attribute), 375
                                                                                                                                     attribute), 375
MM (ask_smapi_model.v1.skill.manifest.distribution_countriessDisstkilbootiapiConvollerliess1.skill.manifest.distribution_countries.Distribution
                  attribute), 459
                                                                                                                                     attribute), 459
MN (ask_smapi_model.v1.isp.distribution_countries.Distribution(ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                  attribute), 375
                                                                                                                                    attribute), 375
MN (ask_smapi_model.v1.skill.manifest.distribution_countriestIQistkilbootiapiQooodleliest.skill.manifest.distribution_countries.Distribution
                  attribute), 459
                                                                                                                                    attribute), 459
MO (ask_sdk_model.services.reminder_management.recurreM&(alsky_BeacupirgnoelDlay).isp.distribution_countries.DistributionCountries
                  attribute), 282
                                                                                                                                     attribute), 375
MO (ask_smapi_model.v1.isp.distribution_countries.Distribution@countries.Distribution_countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distributio
                  attribute), 375
                                                                                                                                    attribute), 459
MO (ask_smapi_model.v1.skill.manifest.distribution_countries_Distribution(ask_smapi_model.services.proactive_events.relevant_audience
                  attribute), 459
                                                                                                                                     attribute), 277
MOBILE (ask_sdk_model.interfaces.viewport.mode.Mode MultiTurn
                                                                                                                                                                             (class
                                                                                                                                     ask_smapi_model.v1.skill.evaluations.multi_turn),
                  attribute), 229
MOBILE_LANDSCAPE_MEDIUM
                  (ask_sdk_core.utils.viewport.ViewportProfile
                                                                                                                 {\tt music}(ask\_smapi\_model.v1.skill\_summary\_apis.SkillSummaryApis
                  attribute), 30
                                                                                                                                    attribute), 530
MOBILE LANDSCAPE SMALL
                                                                                                                 MusicAlias
                                                                                                                                                                               (class
                                                                                                                                                                                                                           in
                   (ask sdk core.utils.viewport.ViewportProfile
                                                                                                                                     ask_smapi_model.v1.skill.manifest.music_alias),
```

| 482 | | NATIV | /E_TYPES_MAPPING | | | |
|--|---|-------------------------------------|--|---------------------|--------------------------|---------|
| MusicApis | (class in (ask_sdk_model_runtime.serializer.DefaultSerializer | | | | | |
| ask_smapi_mode | el.v1.skill.manifest.musi | c_apis), | attribute), 62 | | | |
| 482 | | Navio | gationInterface | (class | in | |
| MusicCapability | (class | in | ask_sdk_model.interfa | ices.navigation.na | vigation_interface). | , |
| ask_smapi_mode | el.v1.skill.manifest.musi | | 213 | | | |
| 483 | | NC (as | k_smapi_model.v1.isp.dis | tribution_countrie | es.DistributionCoun | ıtries |
| MusicContentName | (class | in | attribute), 375 | | | |
| ask_smapi_mode 483 | el.v1.skill.manifest.musi | c_content <u>N</u> Ca(ns | k_smapi_model.v1.skill.m attribute), 459 | anifest.distributio | n_countries.Distrib | ution(|
| MusicContentType | (class | in NE (as | k_smapi_model.v1.isp.dis | tribution_countrie | es.DistributionCoun | ıtries |
| ask_smapi_mode | el.v1.skill.manifest.musi | c_content_type), | attribute), 375 | | | |
| 484 | | NE (as | k_smapi_model.v1.skill.m | anifest.distributio | n_countries.Distrib | oution |
| MusicFeature | (class | in | attribute), 459 | | | |
| ask_smapi_mode 484 | el.v1.skill.manifest.musi | c_feature)\NEW_S | SKILL (ask_smapi_model attribute), 396 | l.v1.skill.alexa_ho | osted.hosted_skill_p | ermiss |
| MusicInterfaces | (class | in NEW_U | JSER_REGISTRATION_ | _REQUIRED | | |
| ask_smapi_mode 484 | el.v1.skill.manifest.musi | c_interfaces), | (ask_smapi_model.v1. attribute), 396 | skill.alexa_hostea | l.hosted_skill_permi | ission_ |
| MusicRequest | (class | in NEWSI | PAPERS (ask_smapi_mod | lel.v1.isp.tax_info | rmation_category.Ta | axInfo |
| - | el.v1.skill.manifest.musi | | attribute), 390 | 1 – 3 | _ 0, | J |
| 485 | v | | (ask_sdk_model.interface | s.alexa.presentati | on.apl.media_comm | ıand_t |
| MusicWordmark | (class | in | attribute), 96 | • | . – | |
| ask_smapi_mode | el.v1.skill.manifest.musi | c_wordmark);,t(| CommandIssuedReque | est (class | in | |
| 485 | | | ask_sdk_model.interfa | ices.playbackcont | roller.next_comman | d_issu |
| MUTUALLY_EXCLUSIVE | _ARRAY_ITEMS | | 214 | | | |
| (ask_smapi_mod attribute), 532 | lel.v1.skill.standardized | _error_code:Stan | k <u>desnahipid Finondor Coldi</u> sp.dis attribute), 375 | tribution_countrie | es.DistributionCoun | ıtries |
| MV (ask_smapi_model.v1.i attribute), 375 | sp.distribution_countrie | es.Distribu niona s | kuɪstniepsi_model.v1.skill.m attribute), 459 | anifest.distributio | n_countries.Distrib | ution(|
| MV (ask_smapi_model.v1.s attribute), 459 | kill.manifest.distributio | n_countri è & Diss | , | tribution_countrie | es.DistributionCoun | ıtries |
| MW (ask_smapi_model.v1.ii attribute), 375 | sp.distribution_countrie | es.Distribu nionG a | * · | anifest.distributio | n_countries.Distrib | oution |
| MW (ask_smapi_model.v1.s attribute), 459 | kill.manifest.distributio | n_countri&sI Qis s | , | tribution_countrie | es.DistributionCoun | ıtries |
| MX (ask_smapi_model.v1.ii attribute), 375 | sp.distribution_countrie | es.Distribu n ib na s | , | anifest.distributio | n_countries.Distrib | oution |
| MX (ask_smapi_model.v1.s attribute), 459 | kill.manifest.distributio | n_countri è M Dis s | * * | tribution_countrie | es.DistributionCoun | ıtries |
| MY (ask_smapi_model.v1.i attribute), 375 | sp.distribution_countrie | es.Distribundan a s | * * | anifest.distributio | n_countries.Distrib | oution |
| MY (ask_smapi_model.v1.s attribute), 459 | skill.manifest.distributio | n_countri è & Qis | , | n_fulfill_intent_vc | alues.CanFulfillInter | ntValu |
| MZ (ask_smapi_model.v1.i | en distribution countries | os DistribuMiza660 | , | n fulfill slot vals | ues CanFulfillSlotVa | ıluec |
| attribute), 375 | sp.aisinioniion_commite | S. DISTI WINDUNGIA | attribute), 68 | ·_juijiii_sioi_vaiu | сь. Син идшы <i>ы</i> чи | incs |
| MZ (ask_smapi_model.v1.s | kill manifest distributio | n countrible Diss | , | n understand sla | t values CanUndor | stands |
| attribute), 459 | | | attribute), 68 | side.sidita_sid | | Similar |
| | | NO (as | k_smapi_model.v1.isp.dis | tribution countrie | es.DistributionCoun | ıtries |
| A 1 | | - (**** | | | | |

NA (ask_smapi_model.v1.skill.manifest.distribution_countries:Distribution(ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_runtin attribute), 459

attribute), 399

 $\verb|NA| (ask_smapi_model.v1. isp. distribution_countries. Distribution \verb|Countries| Distribution Distribution$

attribute), 375

attribute), 460

Index 645

Ν

```
NONE (ask_sdk_model.intent_confirmation_status.IntentConfirm(ask_osbtapis_model.v1.skill.manifest.distribution_countries.Distribution
                         attribute), 317
                                                                                                                                                                                attribute), 460
NONE (ask sdk model.interfaces.alexa.presentation.aplt.tar@et (pskfibelFargedPlxofiteices.reminder management.status.Status
                                                                                                                                                                                attribute), 291
                         attribute), 123
none (ask_sdk_model.services.gadget_controller.trigger_ev@nt_DpmAniggerEv@ntdpip_enodel.v1.skill.manifest.music_content_name.Mu
                        attribute), 243
                                                                                                                                                                                attribute), 483
NONE (ask_sdk_model.slot_confirmation_status.SlotConfirmation_Status (ask_smapi_model.v1.skill.history.interaction_type.Interaction
                                                                                                                                                                                attribute), 421
                         attribute), 330
NONE (ask_smapi_model.v1.skill.evaluations.confirmation_Stotus_(typle_EdinfinondulainSanfausTsypenazonpay.model.response.state.State
                                                                                                                                                                                attribute), 143
                         attribute), 409
NOT_ACCEPTED (ask_smapi_model.v1.skill.beta_test.teste@PiEvi(atsknsdkamsalbeviitateofi&testusnazonpay.model.v1.billing_agreement_s
                         attribute), 399
                                                                                                                                                                                attribute), 149
\verb"MOT_EDITABLE" (ask\_smapi\_model.v1. isp.editable\_state. \textit{Editable\_State} & model. interfaces. amazon pay. model.v1. state. \textit{State} & model. interfaces. amazon pay. model.v1. state. \textit{State} & m
                        attribute), 378
                                                                                                                                                                                attribute), 154
NOT_ENTITLED (ask_sdk_model.interfaces.monetization.vdppenchase_orandtrPurchaseResult (class
                         attribute), 212
                                                                                                                                                                                ask_sdk_model.interfaces.alexa.presentation.apl.open_url_comm
\verb"NOT_ENTITLED" (ask\_sdk\_model.services.monetization.entitled\_stat@. EntitledState) and the properties of the properti
                        attribute), 266
                                                                                                                                                      OPTIONAL (ask_smapi_model.v1.skill.manifest.gadget_support.GadgetSup
NOT_INTEND_TO_PUBLISH
                                                                                                                                                                                attribute), 474
                         (ask_smapi_model.v1.skill.reason.Reason
                                                                                                                                                       options()(django_ask_sdk.skill_adapter.SkillAdapter
                         attribute), 525
                                                                                                                                                                                method), 49
NOT_PURCHASABLE (ask_sdk_model.services.monetizatio@parchesible_mstdteddssrahasusklesikteore.utils.viewport),
                         attribute), 272
NOT PURCHASABLE (ask smapi model.v1.isp.purchasabl@xstate.Patchasabl@sstatein ask sdk core.utils.viewport),
                         attribute), 387
NOT_PURCHASED (ask_sdk_model.services.monetization.e@fill#@lectaske_smapEmniolechentsBeidlsmanifest.flash_briefing_genre.FlashBrie
                         attribute), 266
                                                                                                                                                                                attribute), 473
NOT_RECEIVED_CERTIFICATION_FEEDBACK
                                                                                                                                                                                (ask_smapi_model.v1.skill.reason.Reason
                                                                                                                                                       OTHER
                         (ask_smapi_model.v1.skill.reason.Reason
                                                                                                                                                                                tribute), 525
                        attribute), 525
                                                                                                                                                       OutputSpeech
                                                                                                                                                                                                                                           (class
                                                                                                                                                                                                                                                                                                  in
NP (ask_smapi_model.v1.isp.distribution_countries.DistributionCountriks_sdk_model.ui.output_speech), 308
                         attribute), 375
                                                                                                                                                      OVERLAY (ask_sdk_model.interfaces.viewport.presentation_type.Presentat
NP (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributioril@oeinft@es
                         attribute), 460
NR (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                        attribute), 375
                                                                                                                                                       P1D (ask_smapi_model.v1.skill.metrics.period.Period at-
NR (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution_figures)
                         attribute), 460
                                                                                                                                                       \verb|PA| (ask\_smapi\_model.v1. isp. distribution\_countries. Distribution Countries|
NU (ask_smapi_model.v1.isp.distribution_countries.DistributionCountriesibute), 375
                        attribute), 375
                                                                                                                                                      PA (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
NU (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution_factority)
                         attribute), 460
                                                                                                                                                       ParallelCommand
                                                                                                                                                                                                                                                 (class
\verb|null(ask\_smapi\_model.v1.skill.validation\_data\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_types.ValidationData\_t
                         attribute), 534
NZ (ask_smapi_model.v1.isp.distribution_countries.Distribution_fountries.mand
                                                                                                                                                                                                                                                 (class
                         attribute), 375
                                                                                                                                                                                ask_sdk_model.interfaces.alexa.presentation.aplt.parallel_comme
NZ (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributjqnCountries
                        attribute), 460
                                                                                                                                                      Pattern (class in ask_sdk_model.services.game_engine.pattern),
                                                                                                                                                                                246
\cap
                                                                                                                                                      PatternRecognizer
                                                                                                                                                                                                                                                     (class
object (ask_smapi_model.v1.skill.validation_data_types.Validation_Data_tdpenodel.services.game_engine.pattern_recognizer),
                         attribute), 534
OM (ask_smapi_model.v1.isp.distribution_countries.DistributionCountriescognizerAnchorType
                                                                                                                                                                                                                                                                        (class
                                                                                                                                                                               ask_sdk_model.services.game_engine.pattern_recognizer_anchor
                        attribute), 375
```

```
247
                                                                                                 ask_sdk_model.events.skillevents.permission_changed_request),
pause (ask_sdk_model.interfaces.alexa.presentation.apl.media_comfittand_type.MediaCommandType
                                                                                  PermissionItems
             attribute), 96
PauseCommandIssuedRequest
                                                                                                 ask_smapi_model.v1.skill.manifest.permission_items),
                                                            (class
             ask_sdk_model.interfaces.playbackcontroller.pause_comma#85issued_request),
                                                                                  PermissionName
                                                                                                                                    (class
                                                                                                                                                               in
paused (ask_sdk_model.interfaces.alexa.presentation.apl.component<u>iski_sibhleponms</u>adekn_nodel.interfaces.alexa.presentation.apl.component<u>iski_sibhleponm</u>sadekn_nodel.interfaces.alexa.presentation.apl.componentiski_sibhleponmsadekn_nodel.interfaces.alexa.presentation.apl.componentiski_sibhleponmsadekn_nodel.interfaces.alexa.presentation.apl.componentiski_sibhleponmsadekn_nodel.interfaces.alexa.presentation.apl.componentiski_sibhleponmsadekn_nodel.interfaces.alexa.presentation.apl.componentiski_sibhleponmsadekn_nodel.interfaces.alexa.presentation.apl.componentiski_sibhleponmsadekn_nodel.interfaces.alexa.presentation.apl.componentiski_sibhleponmsadekn_nodel.interfaces.alexa.presentation.apl.componentiski_sibhleponmsadekn_nodel.interfaces.alexa.presentation.apl.componentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibhleponentiski_sibh
              attribute), 90
PAUSED (ask_sdk_model.interfaces.audioplayer.player_act@ityxRlayeriActisit(class in ask_sdk_model.permissions),
             attribute), 171
                                                                                                 319
PaymentAction
                                               (class
                                                                            in PermissionStatus
                                                                                                                                      (class
                                                                                                                                                               in
             ask_sdk_model.interfaces.amazonpay.model.request.paymentslacsidm)model.permission_status), 319
                                                                                  PersistenceException, 28
                                                                             in persistent_attributes
PaymentAction
                                               (class
             ask_sdk_model.interfaces.amazonpay.model.v1.payment_ac(iaxk).sdk_core.attributes_manager.AttributesManager
              151
                                                                                                 attribute), 26
                                                                                  Person (class in ask_sdk_model.person), 320
payments_autopay_consent
              (ask_smapi_model.v1.skill.manifest.permission_namea:Bermissdondhameition_keygen() (in module
             attribute), 487
                                                                                                ask_sdk_dynamodb.partition_keygen), 36
PC (ask sdk model.interfaces.viewport.mode.Mode at- PF (ask smapi model.v1.isp.distribution countries.DistributionCountries
             tribute), 229
                                                                                                attribute), 375
PE (ask_smapi_model.v1.isp.distribution_countries.Distribu#ho((ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution)
                                                                                                 attribute), 460
             attribute), 375
PE (ask smapi model.v1.skill.manifest.distribution countries:Distribution Countries.Distribution Countries
                                                                                                attribute), 375
             attribute), 460
Pending (ask_sdk_model.interfaces.amazonpay.model.respansariantendel.v1.skill.manifest.distribution_countries.Distribution
              attribute), 143
                                                                                                attribute), 460
Pending (ask_sdk_model.interfaces.amazonpay.model.v1.\textit{\textit{H}}\textit{\textit{temapi}}\textit{model.v1.isp.distribution_countries.DistributionCountries}
                                                                                                attribute), 375
             attribute), 154
attribute), 363
                                                                                                attribute), 460
PENDING (ask_smapi_model.v1.catalog.upload.ingestion_sPatasn higestion_sPatasn
                                                                                                                                 (class
                                                                                                                                                                in
                                                                                                ask_sdk_model.services.ups.phone_number),
             attribute), 364
PENDING (ask_smapi_model.v1.catalog.upload_upload_status.UploadStatus
                                                                                  PK (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
              attribute), 367
PENDING (ask_smapi_model.v1.skill.private.accept_status.AcceptStatusribute), 375
             attribute), 505
                                                                                   PK (ask smapi model.v1.skill.manifest.distribution countries.Distribution)
PENDING_APPROVAL_BY_PARENT
                                                                                                attribute), 460
              (ask_sdk_model.services.monetization.status.StatuBL (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
             attribute), 273
                                                                                                attribute), 375
Period (class in ask smapi model.vl.skill.metrics.period)PL (ask smapi model.vl.skill.manifest.distribution countries.Distribution
                                                                                                attribute), 460
PERIODICALS (ask_smapi_model.v1.isp.tax_information_Page_Ny_TaxInformationCategory (in
                                                                                                                                                        module
             attribute), 390
                                                                                                 ask_sdk_core.response_helper), 18
                                                                                  PlainText (ask_smapi_model.v1.skill.interaction_model.prompt_items_t
Permission
                                            (class
                                                                                                 attribute), 445
             ask_sdk_model.events.skillevents.permission),
                                                                                  PlainText
                                                                                                                              (class
                                                                                                                                                                in
PermissionAcceptedRequest
                                                                                                ask_sdk_model.interfaces.display.plain_text),
                                                            (class
                                                                            in
             ask_sdk_model.events.skillevents.permission_accepted_request),
                                                                                  PlainTextHint
                                                                                                                                   (class
PermissionBody
                                                                                                 ask_sdk_model.interfaces.display.plain_text_hint),
                                                 (class
                                                                            in
             ask sdk model.events.skillevents.permission body),
                                                                                  PlainTextOutputSpeech
                                                                                                                                           (class
                                                                                                                                                               in
                                                                                                ask_sdk_model.ui.plain_text_output_speech),
PermissionChangedRequest
                                                           (class
                                                                            in
```

```
308
                                                                                                                                      attribute), 460
play (ask_sdk_model.interfaces.alexa.presentation.apl.media (askusamubitypoddkulatspulintribultiypa_countries.DistributionCountries
                   attribute), 96
                                                                                                                                      attribute), 376
PlaybackController_NextCommandIssued
                                                                                                                  \verb"PN" (ask\_smapi\_model.v1.skill.manifest.distribution\_countries.Distribution") and the property of the prope
                   (ask_smapi_model.v1.skill.manifest.event_name_type.Event\(\mathbb{Ntarile(I)\(\mathbb{P}\)\) \(460\)
                  attribute), 471
                                                                                                                   PODCAST (ask_smapi_model.v1.skill.manifest.music_content_name.Music
PlaybackController_PauseCommandIssued
                                                                                                                                      attribute), 483
                   (ask_smapi_model.v1.skill.manifest.event_name_tppa.E@pt)&ansHypnapi_model.v1.skill.manifest.flash_briefing_genre.Flash
                   attribute), 471
                                                                                                                                      attribute), 473
                                                                                                                  PORTRAIT (ask_sdk_core.utils.viewport.Orientation at-
PlaybackController_PlayCommandIssued
                   (ask_smapi_model.v1.skill.manifest.event_name_type.EventNibmed);pe0
                  attribute), 471
                                                                                                                  Position (class in ask_sdk_model.interfaces.alexa.presentation.apl.posit
PlaybackController_PreviousCommandIssued
                   (ask_smapi_model.v1.skill.manifest.event_name_tppesEwentNamkillspie ask_sdk_model.interfaces.alexa.presentation.aplt.posi
                   attribute), 471
PlaybackFailedRequest
                                                                              (class
                                                                                                          in post()
                                                                                                                                             (django\_ask\_sdk.skill\_adapter.SkillAdapter
                   ask_sdk_model.interfaces.audioplayer.playback_failed_requesthod), 49
                                                                                                                   PostalAddress
                                                                                                                                                                                     (class
PlaybackFinishedRequest
                                                                                                                                      ask_sdk_model.interfaces.connections.entities.postal_address),
                                                                                (class
                   ask_sdk_model.interfaces.audioplayer.playback_finished_relquest),
                                                                                                                  PR (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
PlaybackNearlyFinishedRequest (class in
                                                                                                                                      attribute), 376
                   ask_sdk_model.interfaces.audioplayer.playback_n@ar(<u>ss.kins</u>whepli_maqdesty)1.skill.manifest.distribution_countries.Distribution
                                                                                                                                      attribute), 460
PlaybackStartedRequest
                                                                                                          in PresentationType
                                                                               (class
                                                                                                                                                                                         (class
                                                                                                                                                                                                                             in
                   ask_sdk_model.interfaces.audioplayer.playback_started_requststydk_model.interfaces.viewport.presentation_type),
PlaybackStoppedRequest
                                                                                                          in PresignedUploadPartItems
                                                                               (class
                                                                                                                                                                                                     (class
                                                                                                                                                                                                                             in
                  ask_sdk_model.interfaces.audioplayer.playback_stopped_reqsiess)mapi_model.v1.catalog.presigned_upload_part_items),
                   170
                                                                                                                                      368
PlayBehavior
                                                                                                          in PreSignedUrl
                                                                                                                                                                                   (class
                   ask_sdk_model.interfaces.audioplayer.play_behavior),
                                                                                                                                      ask_smapi_model.v1.catalog.upload.pre_signed_url),
                   167
                                                                                                                                      365
PlayBehavior
                                                                 (class
                                                                                                                PreSignedUrlItem
                                                                                                                                                                                         (class
                                                                                                                                                                                                                             in
                   ask_sdk_model.ui.play_behavior), 309
                                                                                                                                      ask_smapi_model.v1.catalog.upload.pre_signed_url_item),
PlayCommandIssuedRequest
                                                                                  (class
                                                                                                          in
                  ask_sdk_model.interfaces.playbackcontroller.playecommonds_kxske.dkgmestgl.interfaces.alexa.presentation.apl.media_comm
                   215
                                                                                                                                      attribute), 96
PlayDirective
                                                                  (class
                                                                                                          in PreviousCommandIssuedRequest
                                                                                                                                                                                                           (class
                                                                                                                                      ask_sdk_model.interfaces.playbackcontroller.previous_command
                   ask_sdk_model.interfaces.audioplayer.play_directive),
PlayerActivity
                                                                                                          in Price (class in ask_sdk_model.interfaces.amazonpay.model.request.price)
                                                                   (class
                  ask_sdk_model.interfaces.audioplayer.player_activity),
                                                                                                                  {\tt Price}\ (class\ in\ ask\_sdk\_model.interfaces.amazonpay.model.response.price)
playing (ask_sdk_model.interfaces.alexa.presentation.apl.componeh42visible_on_screen_media_tag_state_enum.ComponentVisibleComponeh42visible_on_screen_media_tag_state_enum.ComponentVisibleComponeh42visible_on_screen_media_tag_state_enum.ComponentVisibleComponeh42visible_on_screen_media_tag_state_enum.ComponentVisibleComponeh42visible_on_screen_media_tag_state_enum.ComponentVisibleComponeh42visible_on_screen_media_tag_state_enum.ComponentVisibleComponeh42visible_on_screen_media_tag_state_enum.ComponentVisibleComponeh42visible_on_screen_media_tag_state_enum.ComponentVisibleComponeh42visible_on_screen_media_tag_state_enum.ComponentVisibleComponeh42visible_on_screen_media_tag_state_enum.ComponentVisibleComponeh42visible_on_screen_media_tag_state_enum.ComponentVisibleComponeh42visible_on_screen_media_tag_state_enum.Componeh42visible_on_screen_media_tag_state_enum.Componeh42visible_on_screen_media_tag_state_enum.Componeh42visible_on_screen_tag_state_enum.Componeh42visible_on_screen_tag_state_enum.Componeh42visible_on_screen_tag_state_enum.Componeh42visible_on_screen_tag_state_enum.Componeh42visible_on_screen_tag_state_enum.Componeh42visible_on_screen_tag_state_enum.Componeh42visible_on_screen_tag_state_enum.Componeh42visible_on_screen_tag_state_enum.Componeh42visible_on_screen_tag_state_enum.Componeh42visible_on_screen_tag_state_enum.Componeh42visible_on_screen_tag_state_enum.Componeh42visible_on_screen_tag_state_enum.Componeh42visible_on_screen_tag_state_enum.Componeh42visible_on_screen_tag_state_enum.Componeh42visible_on_screen_tag_state_enum.Componeh42visible_on_screen_tag_state_enum.Componeh42visible_on_screen_tag_state_enum.Componeh42visible_on_screen_tag_state_enum.Componeh42visible_on_screen_tag_state_enum.Componeh42visible_on_screen_tag_state_enum.Componeh42visible_on_screen_tag_state_enum.Componeh42visible_on_screen_tag_screen_tag_state_enum.Componeh42visible_on_screen_tag_state_enum.Componeh42visible_on_screen_tag_state_enum.Componeh42visible_on_tag_state_enum.Componeh42visible_on_tag_state_enum.Componeh42vi
                   attribute), 90
                                                                                                                  Price (class in ask_sdk_model.interfaces.amazonpay.model.v1.price),
PLAYING (ask_sdk_model.interfaces.audioplayer.player_activity.PlaylerActivity
                   attribute), 171
                                                                                                                  PriceListing
                                                                                                                                                                                   (class
                                                                                                                                                                                                                             in
PlayMediaCommand
                                                                      (class
                                                                                                                                      ask_smapi_model.v1.isp.price_listing), 384
                   ask_sdk_model.interfaces.alexa.presentation.apl.phry_mediav_Eommand()(ask_sdk_model_runtime.serializer.DefaultSerializer
                                                                                                                                      attribute), 62
PM(ask_smapi_model.v1.isp.distribution_countries.Distribution_6to untries.eRequest
                                                                                                                                                                                           (class
                                                                                                                                      ask_sdk_model.interfaces.connections.requests.print_image_requ
                   attribute), 375
```

PM(ask smapi model.v1.skill.manifest.distribution countries.DistributionCountries

```
PrintPDFRequest
                                                                      (class
                                                                                                                                        ask_smapi_model.v1.skill.evaluations.profile_nlu_selected_intent
                                                                                                            in
                   ask_sdk_model.interfaces.connections.requests.print_pdf_retquest),
                                                                                                                    ProgressRecognizer
                                                                                                                                                                                               (class
PrintWebPageRequest
                                                                                                                                        ask_sdk_model.services.game_engine.progress_recognizer),
                                                                           (class
                                                                                                           in
                   ask_sdk_model.interfaces.connections.requests.print_web_page_request),
                                                                                                                    Prompt (class in ask_smapi_model.v1.skill.interaction_model.prompt),
PrivacyAndCompliance
                                                                                                                                        444
                                                                             (class
                                                                                                            in
                   ask_smapi_model.v1.isp.privacy_and_complianceD,romptItems
                                                                                                                                                                                     (class
                                                                                                                                        ask_smapi_model.v1.skill.interaction_model.prompt_items),
PRIVATE (ask_smapi_model.v1.skill.manifest.distribution_mode.DistributionMode
                   attribute), 462
                                                                                                                     PromptItemsType
                                                                                                                                                                                           (class
PrivateDistributionAccount
                                                                                                                                        ask_smapi_model.v1.skill.interaction_model.prompt_items_type).
                                                                                      (class
                   ask_smapi_model.v1.skill.private.private_distribution_account),
                                                                                                                     Prompts (class in ask_smapi_model.v1.skill.interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_interaction_model.dialog_int
ProactiveEventsServiceClient
                                                                                         (class
                                                                                                           in
                   ask_sdk_model.services.proactive_events.proactive_eventslesePuiter_iclient)es
                                                                                                                                                                                               (class
                                                                                                                                                                                                                                 in
                                                                                                                                        ask_sdk_model.interfaces.amazonpay.model.request.provider_att
ProactiveSubscriptionChangedBody (class in
                   ask_sdk_model.events.skillevents.proactive_subscPiptioni_dbargetl_tbdatyt,es
                                                                                                                                                                                               (class
                                                                                                                                        ask_sdk_model.interfaces.amazonpay.model.v1.provider_attribut
ProactiveSubscriptionChangedRequest
                                                                                                                                        151
                   (class in ask_sdk_model.events.skillevents.proactiRersabiscriptionechanged_request),(class
                                                                                                                                        ask_sdk_model.interfaces.amazonpay.model.request.provider_cre
                   76
ProactiveSubscriptionEvent
                                                                                      (class
                   ask_sdk_model.events.skillevents.proactive_subscPiptioni_devent();edit
                                                                                                                                                                                         (class
                                                                                                                                        ask_sdk_model.interfaces.amazonpay.model.v1.provider_credit),
process() (ask_sdk_core.dispatch_components.request_components\( \Delta \) bstractRequestInterceptor
                                                                                                                    \verb|PS| (ask\_smapi\_model.v1.isp.distribution\_countries.DistributionCountries|
                   method), 16
process() (ask_sdk_core.dispatch_components.request_componentst.htbatten;tResponseInterceptor
                                                                                                                    \verb"PS" (ask\_smapi\_model.v1.skill.manifest.distribution\_countries. Distribution Countries. Distribution Countries (ask\_smapi\_model.v1.skill.manifest.distribution\_countries. Distribution Countries (ask\_smapi\_model.v1.skill.manifest.distribution\_countries (ask\_smapi\_model.v1.skill.manifest.distribution\_coun
                   method), 17
process() (ask_sdk_runtime.dispatch_components.request_componentshtb)trtt@RequestInterceptor
                   method), 4
                                                                                                                    \verb"PT" (ask\_smapi\_model.v1.isp.distribution\_countries. DistributionCountries
process() (ask_sdk_runtime.dispatch_components.request_components.htmlp.traceptor
                                                                                                                    PT (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
                   method), 4
                                                                                                                                        attribute), 460
PRODUCTIVITY_AND_UTILITIES
                   (ask_smapi_model.v1.skill.manifest.flash_briefing P. Action (ask_smapi_model.v1.skill.metrics.period.Period
                   attribute), 473
                                                                                                                                        attribute), 503
ProductResponse
                                                                      (class
                                                                                                            in PT1H (ask_smapi_model.v1.skill.metrics.period.Period
                   ask_smapi_model.v1.isp.product_response),
                                                                                                                                        attribute), 503
                   385
                                                                                                                    PUBLIC (ask_smapi_model.v1.skill.manifest.distribution_mode.Distributio
                                                                                                                                        attribute), 462
ProductType
                                                                (class
                                                                                                            in
                   ask_sdk_model.services.monetization.product_typ₽);blicationFailure
                                                                                                                                                                                               (class
                                                                                                                                        ask_smapi_model.v1.skill.certification.publication_failure),
                                                                                                                                        407
ProductType
                                                                (class
                                                                                                            in
                   ask_smapi_model.v1.isp.product_type), 385
                                                                                                                    PublicationMethod
                                                                                                                                                                                              (class
profile_nlu_v1() (ask_smapi_model.services.skill_managementsk<u>il</u>smapitageothehv1sækillqeublienti8ki<u>l</u>hWethooggmentServiceClien
                   method), 355
ProfileNluRequest
                                                                                                            in publicationStatus
                                                                         (class
                   ask_smapi_model.v1.skill.evaluations.profile_nlu_request), (ask_smapi_model.v1.skill.history.sort_field_for_intent_request_t
                                                                                                                                        attribute), 422
ProfileNluResponse
                                                                          (class
                                                                                                            in PublicationStatus
                                                                                                                                                                                              (class
                                                                                                                                                                                                                                in
                   ask_smapi_model.v1.skill.evaluations.profile_nlu_response)ask_smapi_model.v1.skill.history.publication_status),
                   412
ProfileNluSelectedIntent
                                                                                   (class
                                                                                                            in PUBLISHED (ask_smapi_model.v1.isp.status.Status at-
```

```
tribute), 387
                                                                                                                                                                                                                      RE (ask smapi model.v1.skill.manifest.distribution countries.Distribution
PublishingInformation
                                                                                                                                                                                                                                                         attribute), 460
                                                                                                                                                 (class
                                                                                                                                                                                                      in
                                   ask_smapi_model.v1.isp.publishing_information),Reason (class in ask_smapi_model.v1.skill.reason), 525
                                                                                                                                                                                                                     Recognizer
                                                                                                                                                                                                                                                                                                                                        (class
PURCHASABLE (ask_sdk_model.services.monetization.purchasable_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_staske_stas
                                    attribute), 272
PURCHASABLE (ask smapi model.v1.isp.purchasable state Parimsable State Par
                                    attribute), 387
                                                                                                                                                                                                                                                          attribute), 513
PurchasableState
                                                                                                                                    (class
                                                                                                                                                                                                                   recordCount (ask_smapi_model.v1.skill.history.sort_field_for_intent_re
                                    ask_sdk_model.services.monetization.purchasable_state), attribute), 422
                                                                                                                                                                                                                      RECTANGLE (ask_sdk_model.interfaces.viewport.shape.Shape
PurchasableState
                                                                                                                                                                                                                                                          attribute), 230
                                                                                                                                   (class
                                                                                                                                                                                                      in
                                   ask_smapi_model.v1.isp.purchasable_state),
                                                                                                                                                                                                                      RECTANGLE (ask_smapi_model.v1.skill.manifest.viewport_shape.Viewport
                                                                                                                                                                                                                                                          attribute), 501
PURCHASED (ask_sdk_model.services.monetization.entitlenPencyreasendEntitlementReason (class
                                    attribute), 266
                                                                                                                                                                                                                                                          ask_sdk_model.services.reminder_management.recurrence),
                                                                                                                        (class
                                                                                                                                                                                                                                                          282
PurchaseMode
                                    ask sdk model.services.monetization.purchase madeurrenceDay
                                                                                                                                                                                                                                                                                                                                                 (class
                                                                                                                                                                                                                                                                                                                                                                                                                           in
                                                                                                                                                                                                                                                          ask_sdk_model.services.reminder_management.recurrence_day),
PurchaseResult
                                                                                                                              (class
                                   ask_sdk_model.interfaces.monetization.v1.purchaRe_casnltenceFreq
                                                                                                                                                                                                                                                                                                                                                   (class
                                                                                                                                                                                                                                                                                                                                                                                                                           in
                                                                                                                                                                                                                                                         ask_sdk_model.services.reminder_management.recurrence_freq),
PURGED (ask_smapi_model.v1.catalog.upload.file_upload_status.File\( \) $\partial p\( \) loadStatus
                                    attribute), 363
                                                                                                                                                                                                                      REFRESH ACCESS TOKEN
PushNotification
                                                                                                                                                                                                                                                          (ask_sdk_model.services.lwa.lwa_client.LwaClient
                                                                                                                                   (class
                                                                                                                                                                                                      in
                                    ask_sdk_model.services.reminder_management.push_notificattiohitte), 265
                                                                                                                                                                                                                      REFRESH_ACCESS_TOKEN
                                                                                                                                                                                                                                                          (ask_sdk_model_runtime.lwa.lwa_client.LwaClient
PushNotificationStatus
                                                                                                                                                   (class
                                                                                                                                                                                                      in
                                   ask_sdk_model.services.reminder_management.push_notificattiohustoutto3),
                                                                                                                                                                                                                      Region (class in ask_smapi_model.v1.skill.manifest.region),
PW (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                                    attribute), 376
                                                                                                                                                                                                                     RegionalSSLCertificate
                                                                                                                                                                                                                                                                                                                                                                         (class
                                                                                                                                                                                                                                                                                                                                                                                                                           in
PW (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution_timedel.v1.skill.regional_ssl_certificate),
                                    attribute), 460
PY (ask_smapi_model.v1.isp.distribution_countries.Distribution_Couveries) (flask_ask_sdk.skill_adapter.SkillAdapter
                                    attribute), 376
                                                                                                                                                                                                                                                         method), 48
PY (ask smapi model.v1.skill.manifest.distribution countries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcountries:Distributionalcou
                                    attribute), 460
                                                                                                                                                                                                                                                         attribute), 99
python3_7 (ask_smapi_model.v1.skill.alexa_hosted.hosted_eskilt_iruntimakHashtedskillRimnteinfaces.alexa.presentation.aplt.position.Pos
                                    attribute), 399
                                                                                                                                                                                                                                                         attribute), 117
                                                                                                                                                                                                                      ReleaseEnvironment
                                                                                                                                                                                                                                                                                                                                                              (class
                                                                                                                                                                                                                                                          ask_sdk_model.interfaces.amazonpay.model.response.release_en
 QA (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                                                                                                                                                                                                                                                                                                                                                              (class
                                                                                                                                                                                                                     ReleaseEnvironment
                                                                                                                                                                                                                                                                                                                                                                                                                           in
                                    attribute), 376
 \texttt{QA} \ (ask\_smapi\_model.v1.skill.manifest.distribution\_countries. Distribution\_the but the 
                                                                                                                                                                                                                                                          152
                                    attribute), 460
                                                                                                                                                                                                                     RelevantAudience
                                                                                                                                                                                                                                                                                                                                                        (class
R
                                                                                                                                                                                                                                                         ask_sdk_model.services.proactive_events.relevant_audience),
RADIO (ask smapi model.v1.skill.manifest.music content name.Music contentName
                                                                                                                                                                                                                      RelevantAudienceType
                                    attribute), 483
RATE_EXCEEDED (ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_permission_status.Hostedskill+ermissionStatus
                                    attribute), 396
\verb"RE" (ask\_smapi\_model.v1. isp. distribution\_countries. Distribution\_Countries Beminder\_(class\ in\ ask\_sdk\_model.services. reminder\_management. reminder\_(class\ in\ ask\_sdk\_model.services. reminder\_
```

```
REMINDER_CREATED (ask_smapi_model.v1.skill.manifest.event_nammarilypper_EventNameType
                                                                  REPLACE_ALL (ask_sdk_model.interfaces.audioplayer.play_behavior.Play
           attribute), 471
REMINDER_DELETED (ask_smapi_model.v1.skill.manifest.event_nammarilyppee)EventNameType
                                                                  \verb|REPLACE_ALL|| (ask\_sdk\_model.ui.play\_behavior.PlayBehavior|
           attribute), 471
REMINDER_STARTED (ask_smapi_model.v1.skill.manifest.event_nammaribypte)Ev2004NameType
          attribute), 471
                                                                  \verb"REPLACE_ENQUEUED" (ask\_sdk\_model.interfaces.audioplayer.play\_behaved) ask\_sdk\_model.interfaces.audioplayer.play\_behaved (ask\_sdk\_model.interfaces.audioplayer.play\_behaved) ask\_sdk\_model.interfaces.audioplayer.play\_behaved (ask\_sdk\_model.interfaces.audioplayer.play\_behaved) ask\_sdk\_model.interfaces.audioplayer.play\_behaved (ask\_sdk\_model.interfaces.audioplayer.play\_behaved) ask\_sdk\_model.interfaces.audioplayer.play\_behaved (ask\_sdk\_model.interfaces.audioplayer.play\_behaved (ask\_sdk\_model.interfaces.audioplayer.play\_behaved (ask\_sdk\_model.interfaces.audioplayer.play\_behaved (ask\_sdk\_model.interfaces.audioplayer.play\_behaved (ask\_sdk\_model.interfaces.audioplayer.play\_behaved (ask\_sdk\_model.interfaces.audioplayer.play\_behaved (ask\_sdk\_model.interfaces.audioplayer.play\_behaved (ask\_sdk\_model.interfaces.audioplayer.play\_behaved (ask\_sdk\_model.interfaces.audioplayer.play).
REMINDER_STATUS_CHANGED
                                                                             attribute), 167
           (ask_smapi_model.v1.skill.manifest.event_name_tpertenture) (ask_smapi_model.ui.play_behavior.PlayBehavior
          attribute), 471
                                                                             attribute), 309
REMINDER_UPDATED (ask_smapi_model.v1.skill.manifestPerent_maphe(ask_smapi_model.ui.reprompt), 309
          attribute), 471
                                                                  Request (class in ask_sdk_model.request), 320
ReminderCreatedEventRequest
                                                             in Request (class in ask_smapi_model.v1.skill.manifest.request),
                                                 (class
          ask_sdk_model.services.reminder_management.reminder_created_event_request),
           284
                                                                  request_attributes
ReminderDeletedEvent
                                                             in
                                                                             (ask_sdk_core.attributes_manager.AttributesManager
                                            (class
           ask_sdk_model.services.reminder_management.reminder_delleteblute)ents,
                                                                  REQUEST_BODY_CREDENTIALS
ReminderDeletedEventRequest
                                                 (class
                                                                             (ask_smapi_model.v1.skill.account_linking.access_token_scheme
                                                             in
           ask_sdk_model.services.reminder_management.reminder_delteteblute)enter_temple.
                                                                  request_feedback_from_testers_v1()
ReminderManagementServiceClient (class in
                                                                             (ask_smapi_model.services.skill_management.skill_management_
           286
                                                                  request_handler (ask_sdk_runtime.dispatch_components.request_com
ReminderRequest
                                                                             attribute), 7
                                       (class
                                                             in
           ask_sdk_model.services.reminder_management.remeindeesrequest)dler()
                                                                             (ask_sdk.standard.StandardSkillBuilder
ReminderResponse
                                        (class
                                                                             method), 41
                                                             in
          ask\_sdk\_model.services.reminder\_management.reminqlex\_stes_promse) \texttt{!er()}
                                                                             (ask_sdk_core.skill_builder.CustomSkillBuilder
ReminderStartedEventRequest
                                                                             method), 25
                                                 (class
                                                             in
          ask_sdk_model.services.reminder_management.reminder_stanted_event_(request),
           288
                                                                             (ask_sdk_core.skill_builder.SkillBuilder
ReminderStatusChangedEventRequest (class
                                                                             method), 23
           in ask_sdk_model.services.reminder_managementreqindet_statuscl&bang&d_event_request),
                                                                             (ask_sdk_runtime.dispatch_components.request_components.Abs
ReminderUpdatedEventRequest
                                                                             method), 4
                                                 (class
                                                             in
          ask_sdk_model.services.reminder_management.reninder_stp_dated_devent(_request),
                                                                             (ask_sdk_runtime.skill_builder.AbstractSkillBuilder
remove_testers_from_beta_test_v1()
                                                                             method), 12
           (ask_smapi_model.services.skill_management.skill_anguagement_nxrevice_crient_nxrevice_crient_skillManagementServiceClient
          method), 355
                                                                             (ask_sdk_runtime.dispatch_components.request_components.Gen
RenderDocumentDirective
                                                                             attribute), 8
                                              (class
           ask_sdk_model.interfaces.alexa.presentation.apl.remeden_edetcuinnentie_idirecotive); s
                                                                             (ask_sdk_runtime.dispatch_components.request_components.Gen
RenderDocumentDirective
                                              (class
                                                             in
                                                                             attribute), 7
          ask_sdk_model.interfaces.alexa.presentation.aplt.reardene_slocuinnene_rdirecptiveer,s ()
                                                                             (ask_sdk_runtime.dispatch_components.request_components.Abs
           118
RenderedDocumentState
                                            (class
                                                                             method), 4
           ask_sdk_model.interfaces.alexa.presentation.apl.rendereds_documedno_pstate),
                                                                                                                               in
                                                                                                          (class
                                                                             ask_sdk_model.request_envelope), 324
                                                             in RequestName
RenderTemplateDirective
                                              (class
                                                                                                                               in
          ask_sdk_model.interfaces.display.render_template_directiva)sk_smapi_model.v1.skill.manifest.request_name),
REPLACE (ask_sdk_model.er.dynamic.update_behavior.Updk#efkehavioerifier
                                                                                                          (class
                                                                                                                               in
```

REQUIRED (ask_smapi_model.v1.skill.manifest.gadget_supportCoadgetSupportationImportance

REQUIRED (ask_smapi_model.v1.skill.validations.response_validation_mportance.ResponseValidationImportance

ask_sdk_webservice_support.verifier), 44

reset_entitlement_for_product_v1()

attribute), 513

```
(ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient
                                                                                         restart (ask_sdk_model.interfaces.alexa.presentation.apl.animate_item_
              method), 356
Resolution
                                                (class
                                                                                  in
                                                                                                        attribute), 81
              ask_sdk_model.slu.entityresolution.resolution),
                                                                                        Restaurant
                                                                                                                                         (class
                                                                                                       ask_sdk_model.interfaces.connections.entities.restaurant),
                                                                                                        175
Resolutions
                                                 (class
                                                                                  in
              ask_sdk_model.slu.entityresolution.resolutions), ResultSet
                                                                                                                                        (class
                                                                                                                                                                           in
                                                                                                       ask_sdk_model.services.monetization.result_set),
                                                                                                       272
ResolutionsPerAuthorityItems
                                                                   (class
                                                                                  in
              ask_smapi_model.v1.skill.evaluations.resolutions_pev_cutslw(itsk_iselh_s)podel.interfaces.alexa.presentation.apl.animate_item_
                                                                                                       attribute), 81
ResolutionsPerAuthorityStatus (class in ReviewTrackingInfo
                                                                                                                                                 (class
              ask_smapi_model.v1.skill.evaluations.resolutions_per_authaskysstapis)nodel.v1.skill.certification.review_tracking_info),
ResolutionsPerAuthorityStatusCode (class ReviewTrackingInfoSummary
                                                                                                                                                         (class
               in ask_smapi_model.v1.skill.evaluations.resolutions_per_aualsb<u>ritmagtiutmo_</u>dedde]),skill.certification.review_tracking_info_sum
              414
ResolutionsPerAuthorityValueItems (class rewind (ask_sdk_model.interfaces.alexa.presentation.apl.media_comman
               in ask_smapi_model.v1.skill.evaluations.resolutions_per_audhtoritayte)alde_items),
                                                                                        RICH TEXT TYPE
                                                                                                                                                                   module
RESOURCE_LIMIT_EXCEEDED
                                                                                                        ask_sdk_core.response_helper), 18
               (ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_greFraistsi(alastainusHostkdShidlPkintistsjaarStdiuplay.rich_text),
              attribute), 396
                                                                                        \verb"RO" (ask\_smapi\_model.v1.isp.distribution\_countries. DistributionCountries
RESOURCE_NOT_FOUND
               (ask_smapi_model.v1.skill.standardized_error_code.Standardizedler) of Code
              attribute), 532
                                                                                        {\tt RO}\ (ask\_smapi\_model.v1.skill.manifest.distribution\_countries.Distribution Countries.Distribution Countries.
ResourceImportStatus
                                                                                                       attribute), 460
              ask_smapi_model.v1.skill.resource_import_status_ROLLBACK_FAILED (ask_smapi_model.v1.skill.response_status.Response
               526
                                                                                                       attribute), 527
ResourceStatus
                                                                                  in ROLLBACK_SUCCEEDED
                                                    (class
              ask_smapi_model.v1.skill.resource_status),
                                                                                                        (ask_smapi_model.v1.skill.response_status.ResponseStatus
              527
                                                                                                       attribute), 527
Response (class in ask_sdk_model.response), 324
                                                                                        RotateTransformProperty
                                                                                                                                                       (class
                                                                                                                                                                           in
                                                                                                       ask\_sdk\_model.interfaces.alexa.presentation.apl.rotate\_transform
response_interceptors
              (ask_sdk_runtime.dispatch_components.request_components\@enericRequestHandlerChain
              attribute), 7
                                                                                        ROUND (ask_sdk_model.interfaces.viewport.shape.Shape
response_interceptors()
                                                                                                        attribute), 230
              (ask_sdk_runtime.dispatch_components.request_catiptibe(atsk_bottapitibeoglestHiskdlertahifust.viewport_shape.ViewportShape
                                                                                                       attribute), 501
              method), 4
ResponseEnvelope
                                                                                        RS (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                                                       (class
              ask_sdk_model.response_envelope), 325
                                                                                                       attribute), 376
                                                                                        RS (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution@
ResponseFactory
                                                                                  in
              ask_sdk_core.response_helper), 18
                                                                                                       attribute), 460
ResponseStatus
                                                    (class
                                                                                        RU (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
              ask_smapi_model.v1.skill.response_status),
                                                                                                       attribute), 376
               527
                                                                                         RU (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution@
ResponseValidation
                                                         (class
                                                                                  in
                                                                                                       attribute), 460
              ask_smapi_model.v1.skill.validations.response_vakidnininyG (ask_sdk_model.interfaces.geolocation.status.Status
```

512

ResponseValidationStatus

(class

ask_smapi_model.v1.skill.validations.response_validation_impor

ask_smapi_model.v1.skill.validations.response_validation_status

(class

in

```
attribute), 210
                                                                                                                                                                        SC (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution@
RUNNING (ask_smapi_model.v1.skill.beta_test.status.Status
                                                                                                                                                                                                    attribute), 460
                            attribute), 403
                                                                                                                                                                        ScaleTransformProperty
                                                                                                                                                                                                                                                                                             (class
{\tt Runtime} \ ({\it class in ask\_sdk\_model.interfaces.alexa.presentation.apl.runki\_model.interfaces.alexa.presentation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.apl.scale\_transformation.ap
Runtime (class in ask_sdk_model.interfaces.alexa.presentationEptireDtineD$)$OLUTE
                                                                                                                                                                                                    (ask_sdk_model.services.reminder_management.trigger_type.Trig
Runtime (class in ask_sdk_model.interfaces.alexa.presentation.html.attmibnte), 292
                                                                                                                                                                         SCHEDULED_RELATIVE
                                                                                                                                                                                                    (ask_sdk_model.services.reminder_management.trigger_type.Trig
RuntimeConfigException, 13
RuntimeConfiguration
                                                                                                                (class
                                                                                                                                                           in
                                                                                                                                                                                                     attribute), 292
                            ask_sdk_runtime.skill), 9
                                                                                                                                                                         ScheduleFoodEstablishmentReservationRequest
RuntimeConfigurationBuilder
                                                                                                                              (class
                                                                                                                                                           in
                                                                                                                                                                                                    (class in ask_sdk_model.interfaces.connections.requests.schedule
                           ask_sdk_runtime.skill), 10
{\tt RW} \ (ask\_smapi\_model.v1. isp. distribution\_countries. Distribution \textbf{\textit{Eduvitries}}. \textbf{\textit{eduvit
                            attribute), 376
                                                                                                                                                                                                     ask_sdk_model.interfaces.connections.requests.schedule_taxi_res
RW (ask_smapi_model.v1.skill.manifest.distribution_countries.DistribuftonCountries
                           attribute), 460
                                                                                                                                                                         SCHEMA VALIDATION
                                                                                                                                                                                                    (ask_smapi_model.v1.catalog.upload.ingestion_step_name.Ingest
S
                                                                                                                                                                        SCIENCE (ask_smapi_model.v1.skill.manifest.flash_briefing_genre.FlashB
S3_CLIENT_NAME (ask_sdk_s3.adapter.S3Adapter at-
                                                                                                                                                                                                    attribute), 473
                            tribute), 51
                                                                                                                                                                        Scope (class in ask_sdk_model.scope), 326
S3_OBJECT_BODY_NAME
                                                                                                                                                                        ScrollCommand
                                                                                                                                                                                                                                                                         (class
                            (ask_sdk_s3.adapter.S3Adapter
                                                                                                                                     attribute),
                                                                                                                                                                                                     ask_sdk_model.interfaces.alexa.presentation.apl.scroll_commana
S3Adapter (class in ask_sdk_s3.adapter), 51
SA (ask_sdk_model.services.reminder_management.recurrencer_day.RemirenceDay
                                                                                                                                                                                                                                                                         (class
                                                                                                                                                                                                    ask_sdk_model.interfaces.alexa.presentation.aplt.scroll_comman
                            attribute), 283
SA (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                                                                                                                                                                        ScrollToIndexCommand
                                                                                                                                                                                                                                                                                        (class
                            attribute), 376
\verb|SA| (ask\_smapi\_model.v1.skill.manifest.distribution\_countries.Distribution\_the language of the language of
                            attribute), 460
SANDBOX (ask_sdk_model.interfaces.amazonpay.model.responseskelsungpierworld mediatribution of mentries. Distribution Countries
                                                                                                                                                                                                     attribute), 376
                            attribute), 142
SANDBOX (ask_sdk_model.interfaces.amazonpay.model.v1.fele(ask_emupinmodekeleaseltmanifastedistribution_countries.DistributionC
                                                                                                                                                                                                    attribute), 460
                            attribute), 152
                                                                                                                                                                        Search (ask_smapi_model.v1.skill.manifest.request_name.RequestName
save_attributes()
                            (ask_sdk_core.attributes_manager.AbstractPersistenceAdapftfribute), 488
                                                                                                                                                                         seek (ask_sdk_model.interfaces.alexa.presentation.apl.media_command_t
                           method), 27
                                                                                                                                                                                                    attribute), 96
save_attributes()
                            (ask\_sdk\_dynamodb.adapter.DynamoDbAdapter SelfSigned (ask\_smapi\_model.v1.skill.manifest.ssl\_certificate\_type.SSL
                                                                                                                                                                                                     attribute), 497
                           method), 36
                                                                                                                                                                         SellerBillingAgreementAttributes (class in
save_attributes()
                                                                                                                                                                                                     ask_sdk_model.interfaces.amazonpay.model.request.seller_billing
                            (ask_sdk_s3.adapter.S3Adapter
                                                                                                                                        method),
                                                                                                                                                                        SellerBillingAgreementAttributes (class in
save_persistent_attributes()
                                                                                                                                                                                                     ask_sdk_model.interfaces.amazonpay.model.v1.seller_billing_ag
                            (ask_sdk_core.attributes_manager.AttributesManager
                            method), 26
SB (ask_smapi_model.v1.isp.distribution_countries.Distribution_bearAfficerAttributes
                                                                                                                                                                                                                                                                                          (class
                                                                                                                                                                                                    ask_sdk_model.interfaces.amazonpay.model.request.seller_order_
                           attribute), 376
SB (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
                                                                                                                                                                        SellerOrderAttributes
                                                                                                                                                                                                                                                                                          (class
                            attribute), 460
```

attribute), 376

 $\verb§SC (ask_smapi_model.v1. isp. distribution_countries. DistributionCountPike_sdk_model. interfaces. amazonpay. model.v1. seller_order_attributionCountries. DistributionCountPike_sdk_model. interfaces. amazonpay. model.v1. seller_order_attributionCountries. DistributionCountries. DistributionCoun$

```
SEND (ask_sdk_model.interfaces.custom_interface_controll&rfilteri_qnatibn_etilteri_MatchActionclass
             attribute), 188
                                                                                                 ask_sdk_model.services.service_client_factory),
SEND AND TERMINATE
              in
             attribute), 188
                                                                                                 ask_sdk_model.services.service_client_response),
send reminder to testers v1()
             (ask_smapi_model.services.skill_management.skils_mariagenenterteservicesetilesetillManagenentesetillent
                                                                                                 ask_sdk_model_runtime.service_client_response),
             method), 356
send_skill_message()
             (ask_sdk_model.services.skill_messaging.skill_messaging_sdlxive_cdlient.Skill,M@ssagingServiceClient
             method), 294
                                                                                   Session (class in ask_sdk_model.session), 326
                                                                             in Session (class in ask_smapi_model.v1.skill.simulations.session),
SendDirectiveDirective
                                                         (class
             ask\_sdk\_model.interfaces.custom\_interface\_controller.send\_\texttt{ADP}ective\_directive),
              189
                                                                                   session_attributes
                                                       (class
                                                                                                 (ask_sdk_core.attributes_manager.AttributesManager
SendDirectiveRequest
                                                                             in
             ask_sdk_model.services.directive.send_directive_request), attribute), 26
              237
                                                                                   SessionEndedError
                                                                                                                                        (class
                                                                                                                                                                in
SendEventCommand
                                                   (class
                                                                                                 ask_sdk_model.session_ended_error), 327
             ask_sdk_model.interfaces.alexa.presentation.apl.s&mds_wientEcontenditedt,orType
                                                                                                                                           (class
                                                                                                                                                                in
                                                                                                 ask_sdk_model.session_ended_error_type),
SendEventCommand
                                                   (class
                                                                             in
                                                                                                 327
             ask_sdk_model.interfaces.alexa.presentation.aplt.Send_sevenE_noventend)$001
                                                                                                                                        (class
                                                                                                                                                                in
              120
                                                                                                 ask_sdk_model.session_ended_reason), 327
SendRequestDirective
                                                       (class
                                                                             in SessionEndedRequest
                                                                                                                                                                in
             ask_sdk_model.interfaces.connections.send_request_directivesk_sdk_model.session_ended_request),
                                                                                                 328
SendResponseDirective
                                                        (class
                                                                             in SessionMode
                                                                                                                                 (class
                                                                                                                                                                in
             ask_sdk_model.interfaces.connections.send_response_directisk_smapi_model.v1.skill.simulations.session_mode),
                                                                                                 509
SendSkillMessagingRequest
                                                            (class
                                                                             in SessionResumedRequest
                                                                                                                                            (class
                                                                                                                                                                in
             ask_sdk_model.services.skill_messaging.send_skill_messagingk_rathuont)del.session_resumed_request),
              293
                                                                                                 329
SequentialCommand
                                                    (class
                                                                             in set_can_fulfill_intent()
             ask_sdk_model.interfaces.alexa.presentation.apl.sequential(askusadhady)pre.response_helper.ResponseFactory
              104
                                                                                                 method), 19
SequentialCommand
                                                                             in set_card() (ask_sdk_core.response_helper.ResponseFactory
                                                    (class
             ask_sdk_model.interfaces.alexa.presentation.aplt.sequentialmechanomynths,
                                                                                   set_interaction_model_v1()
SerializationException, 13, 28, 61
                                                                                                 (ask_smapi_model.services.skill_management.skill_management_
serialize() (ask_sdk_core.serialize.DefaultSerializer
                                                                                                 method), 356
                                                                                   set_private_distribution_account_id_v1()
             method), 28
serialize() (ask_sdk_model.services.serializer.Serializer
                                                                                                 (ask_smapi_model.services.skill_management.skill_management_
             method), 301
                                                                                                 method), 357
serialize() (ask_sdk_model_runtime.serializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializer.DefaultSerializ
                                                                                                 (ask_sdk_core.response_helper.ResponseFactory
             method), 62
serialize() (ask_sdk_model_runtime.serializer.Serializer
                                                                                                 method), 18
             method), 63
                                                                                   set_skill_enablement_v1()
                                                                                                 (ask_smapi_model.services.skill_management.skill_management_
Serializer
                                             (class
                                                                             in
             ask_sdk_model.services.serializer), 301
                                                                                                 method), 357
Serializer
                                            (class
                                                                                   set_ssl_certificates_v1()
                                                                                                 (ask_smapi_model.services.skill_management.skill_management_
             ask_sdk_model_runtime.serializer), 63
service_client_factory
                                                                                                 method), 357
             (ask_sdk_core.handler_input.HandlerInput
                                                                                   SetFocusCommand
                                                                                                                                     (class
                                                                                                                                                                in
             attribute), 15
                                                                                                 ask_sdk_model.interfaces.alexa.presentation.apl.set_focus_comm
```

```
106
                                                                                                  attribute), 376
SetLightDirective
                                                     (class
                                                                              in SI (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
             ask_sdk_model.interfaces.gadget_controller.set_light_directants);bute), 460
                                                                                    SIGNATURE_CERT_CHAIN_URL_HEADER (in mod-
SetLightParameters
                                                      (class
                                                                                                  ule ask_sdk_webservice_support.verifier_constants),
             ask sdk model.services.gadget controller.set light parameters),
              242
                                                                                    SIGNATURE CERT CHAIN URL KEY (in module
                                                                                                  django_ask_sdk.skill_adapter), 49
SetPageCommand
                                                 (class
                                                                              in
              ask_sdk_model.interfaces.alexa.presentation.apl.s8f_@dget_obm_min_dDER
                                                                                                                                      (in
                                                                                                                                                           module
                                                                                                  ask_sdk_webservice_support.verifier_constants),
              106
SetPageCommand
                                                 (class
                                                                              in
             ask_sdk_model.interfaces.alexa.presentation.aplt.set_grape_urband),
                                                                                                                                   (in
                                                                                                                                                           module
                                                                                                  django_ask_sdk.skill_adapter), 50
SetStateCommand
                                                                              in SimpleCard (class in ask_sdk_model.ui.simple_card),
                                                  (class
             ask_sdk_model.interfaces.alexa.presentation.apl.set_state_cbmmand),
                                                                                    simulate_skill_v1()
setTrack (ask_sdk_model.interfaces.alexa.presentation.apl.media_toskmandpiyproWedsiarCioresnskiillTypenagement.skill_management
              attribute), 96
                                                                                                  method), 358
                   (django_ask_sdk.skill_adapter.SkillAdapter SimulationResult
                                                                                                                                        (class
setup()
             method), 49
                                                                                                  ask smapi model.v1.skill.simulations.simulation result),
SetupAmazonPay
                                                 (class
                                                                              in
                                                                                                   510
             ask_sdk_model.interfaces.amazonpay.v1.setup_anaizmni_lmaty),onsApiRequest
                                                                                                                                              (class
              161
                                                                                                   ask_smapi_model.v1.skill.simulations.simulations_api_request),
SetupAmazonPayRequest
                                                         (class
              ask_sdk_model.interfaces.amazonpay.request.setupiamdzwniparys_AppiuRst)sponse
                                                                                                                                               (class
                                                                                                                                                                   in
                                                                                                  ask_smapi_model.v1.skill.simulations.simulations_api_response)
SetupAmazonPayResult
                                                        (class
                                                                              in
             ask_sdk_model.interfaces.amazonpay.response.setupmanhazonoprayApeisRk);ponseStatus
                                                                                                                                                     (class
                                                                                                  ask_smapi_model.v1.skill.simulations.simulations_api_response_
SetupAmazonPayResult
                                                        (class
                                                                              in
             162
                                                                                                   attribute), 230
                                                                              in SINGLE (ask_smapi_model.v1.skill.metrics.period.Period
SetValueCommand
                                                  (class
              ask_sdk_model.interfaces.alexa.presentation.apl.set_value_attributed,)503
              108
                                                                                    Size (class in ask_sdk_core.utils.viewport), 30
SetValueCommand
                                                                              in SJ (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                                                  (class
             ask sdk model.interfaces.alexa.presentation.aplt.set value attributed & 76
                                                                                    SJ (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution@
SEVEN_SEGMENT (ask_sdk_model.interfaces.viewport.aplt.characteratfoibuta)CharacterFormat
              attribute), 223
                                                                                    SK (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
SG (ask smapi model.v1.isp.distribution countries.DistributionCountriesibute), 376
              attribute), 376
                                                                                    SK (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution@
SG (ask smapi model.v1.skill.manifest.distribution countries.Distributioril@oeint#les
              attribute), 460
                                                                                    SkewTransformProperty
                                                                                                                                              (class
                                                                                                                                                                   in
SH (ask_smapi_model.v1.isp.distribution_countries.DistributionCountriks_sdk_model.interfaces.alexa.presentation.apl.skew_transform
              attribute), 376
SH (ask_smapi_model.v1.skill.manifest.distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_countriesk:Distribution_cou
                                                                                                  tribute), 49
             attribute), 460
Shape (class in ask_sdk_model.interfaces.viewport.shape), SKILL_ACCOUNT_LINKED
                                                                                                   (ask_smapi_model.v1.skill.manifest.event_name_type.EventName
              229
ShortAddress
                                                                                                   attribute), 471
                                               (class
                                                                              in
             ask_sdk_model.services.device_address.short_addsksis),l_configuration
                                                                                                  (ask sdk.standard.StandardSkillBuilder
                                                                                                                                                                 at-
SI (ask smapi model.v1.isp.distribution countries.DistributionCountribute), 41
```

```
skill_configuration
                                                      SkillManifestCustomTask
                                                                                             (class
                                                               ask_smapi_model.v1.skill.manifest.skill_manifest_custom_task),
         (ask_sdk_core.skill_builder.CustomSkillBuilder
         attribute), 23
skill_configuration
                                                      SkillManifestEndpoint
                                                                                           (class
                                                                                                         in
         (ask_sdk_core.skill_builder.SkillBuilder
                                                 at-
                                                               ask_smapi_model.v1.skill.manifest.skill_manifest_endpoint),
SKILL_DISABLED (ask_smapi_model.v1.skill.manifest.ev&ni_indn'ne_injpe_Eve iithhamileType
                                                                                           (class
                                                               ask_smapi_model.v1.skill.manifest.skill_manifest_envelope),
         attribute), 471
SKILL_ENABLED (ask_smapi_model.v1.skill.manifest.event_name_t\perpectate{perpectate}.EventNameType
                                                      SkillManifestEvents
         attribute), 471
                                                                                          (class
SKILL_PERMISSION_ACCEPTED
                                                               ask_smapi_model.v1.skill.manifest.skill_manifest_events),
         (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType
                                                      {\tt SkillManifestLocalizedPrivacyAndCompliance}
        attribute), 471
SKILL_PERMISSION_CHANGED
                                                               (class in ask_smapi_model.v1.skill.manifest.skill_manifest_localize
         (ask\_smapi\_model.v1.skill.manifest.event\_name\_type.Event \verb|MameType||
         attribute), 471
                                                      {\tt SkillManifestLocalizedPublishingInformation}
SKILL_PROACTIVE_SUBSCRIPTION_CHANGED
                                                               (class in ask_smapi_model.v1.skill.manifest.skill_manifest_localize
         (ask_smapi_model.v1.skill.manifest.event_name_type.EventNameType
         attribute), 471
                                                      SkillManifestPrivacyAndCompliance (class
SKILL_RESPONSE (ask_smapi_model.v1.skill.interaction_model.delegaskosnstpitopydtelpelDkllgontinifStataskellyTryponifest_privacy_and
         attribute), 434
SkillAdapter
                                                      SkillManifestPublishingInformation (class
         django_ask_sdk.skill_adapter), 48
                                                               in ask_smapi_model.v1.skill.manifest.skill_manifest_publishing_i
SkillAdapter (class in flask_ask_sdk.skill_adapter),
                                                      SkillMessagingServiceClient
                                                                                               (class
                                                                                                         in
SkillBuilder (class in ask_sdk_core.skill_builder),
                                                               ask_sdk_model.services.skill_messaging.skill_messaging_service
SkillBuilderException, 13
                                                      SkillStage
                                                                                    (class
                                                                                                         in
SkillConfiguration (class in ask_sdk_core.skill),
                                                               ask_sdk_model.services.proactive_events.skill_stage),
         20
SkillDisabledRequest
                                    (class
                                                  in SkillStatus
                                                                                    (class
         ask_sdk_model.events.skillevents.skill_disabled_request), ask_smapi_model.v1.skill.skill_status), 529
                                                      SkillSummary
                                                                                                         in
                                                               ask_smapi_model.v1.skill.skill_summary),
SkillEnabledRequest
                                   (class
         ask_sdk_model.events.skillevents.skill_enabled_request),
                                                      SkillSummaryApis
                                                                                                         in
                                                                                        (class
skillEndedSessions
                                                               ask_smapi_model.v1.skill.skill_summary_apis),
         (ask\_smapi\_model.v1.skill.metrics.metric.Metric
                                                      SkillType
         attribute), 503
                                                                                   (class
                                                                                                         in
SkillInteractionModel
                                                               ask_smapi_model.v1.skill.metrics.skill_type),
                                     (class
                                                  in
         ask_smapi_model.v1.skill.skill_interaction_model),
         528
                                                      SL (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
SkillInteractionModelStatus
                                                               attribute), 376
                                         (class
                                                  in
        ask_smapi_model.v1.skill.skill_interaction_modelStatuss_smapi_model.v1.skill.manifest.distribution_countries.Distribution
                                                               attribute), 461
                                                  in Slot (class in ask_sdk_model.slot), 329
SkillManagementServiceClient
                                         (class
         ask_smapi_model.services.skill_management.skill<u>S</u>mandgensent_askvismapliemt)del.v1.skill.evaluations.slot),
         334
SkillManifest
                               (class
                                                  in Slot (class in ask_smapi_model.v1.skill.history.slot),
        ask_smapi_model.v1.skill.manifest.skill_manifest),
         488
                                                      SlotConfirmationStatus
                                                                                            (class
                                                                                                         in
                                                               ask_sdk_model.slot_confirmation_status),
SkillManifestApis
                                  (class
        ask_smapi_model.v1.skill.manifest.skill_manifest_apis),
        489
                                                      SlotDefinition
                                                                                      (class
                                                                                                         in
```

```
ask_smapi_model.v1.skill.interaction_model.slot_definition)210
                   445
                                                                                                                     SpokenInfo
                                                                                                                                                                                    (class
                                                                                                                                                                                                                                  in
SlotResolutions
                                                                                                                                         ask_sdk_model.services.reminder_management.alert_info_spoker
                   ask_smapi_model.v1.skill.evaluations.slot_resolutions),
                                                                                                                                         278
                                                                                                                     SpokenText
                                                                                                                                                                                    (class
\verb§SlotType" (class in ask\_smapi\_model.v1.skill.interaction\_model.slot\underline{askpee}] k\_model.services.reminder\_management.spoken\_text),
                   446
                                                                                                            in SPORTS (ask_smapi_model.v1.skill.manifest.flash_briefing_genre.FlashBr
SlotValidation
                   ask_smapi_model.v1.skill.interaction_model.slot_validationattribute), 473
                                                                                                                     SR (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
SM (ask_smapi_model.v1.isp.distribution_countries.DistributionCountriesbute), 376
                   attribute), 376
                                                                                                                     SR (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution@
SM(ask_smapi_model.v1.skill.manifest.distribution_countries.Distributionibue)nt#fels
                   attribute), 461
                                                                                                                     SSLCertificatePayload
                                                                                                                                                                                                     (class
                                                                                                                                                                                                                                  in
SMALL (ask_sdk_core.utils.viewport.Size attribute), 30
                                                                                                                                         ask_smapi_model.v1.skill.ssl_certificate_payload),
{\tt SMALL} \ (ask\_sdk\_model. interfaces. display. image\_size. ImageSize
                                                                                                                                         530
                   attribute), 198
                                                                                                                     SSLCertificateType
                                                                                                                                                                                                (class
SmapiClientBuilder
                                                                           (class
                                                                                                            in
                                                                                                                                         ask_smapi_model.v1.skill.manifest.ssl_certificate_type),
                   ask_smapi_sdk.smapi_builder), 53
smartHome (ask_smapi_model.v1.skill.metrics.skill_type.SkHMy@ask_smapi_model.v1.skill.interaction_model.prompt_items_type.Pro
                   attribute), 504
                                                                                                                                         attribute), 445
smartHome (ask_smapi_model.v1.skill_summary_apis.skillSumparySpeech
                   attribute), 530
                                                                                                                                         ask_sdk_model.ui.ssml_output_speech), 310
SmartHomeApis
                                                                                                            in ssmlToSpeech (ask sdk model.interfaces.alexa.presentation.html.transf
                                                                   (class
                   ask_smapi_model.v1.skill.manifest.smart_home_apis),
                                                                                                                                         attribute), 129
                                                                                                                     ssmlToText (ask_sdk_model.interfaces.alexa.presentation.html.transform
SmartHomeProtocol
                                                                                                                                         attribute), 129
                                                                         (class
                                                                                                            in
                   ask_smapi_model.v1.skill.manifest.smart_home_p&aloask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                                                                                                                                         attribute), 376
SN (ask_smapi_model.v1.isp.distribution_countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution@countries.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.Distribution.
                   attribute), 376
                                                                                                                                         attribute), 461
SN (ask_smapi_model.v1.skill.manifest.distribution_countriest.\(\textit{DistribuskiosmCopin_twiest}\)!. skill.history.sort_field_for_intent_request_typ.
                   attribute), 461
                                                                                                                                         attribute), 422
SO (ask_smapi_model.v1.isp.distribution_countries.Distribution_Geulutries in ask_smapi_model.v1.isp.stage), 387
                   attribute), 376
                                                                                                                     StageForMetric
                                                                                                                                                                                          (class
SO (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution_Choappitrino del.v1.skill.metrics.stage_for_metric),
                   attribute), 461
                                                                                                                                         504
SOFTWARE (ask_smapi_model.v1.isp.tax_information_cate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxTaxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationscate@oraxInformationsca
                   attribute), 390
SortFieldForIntentRequestType (class in StageV2Type
                                                                                                                                                                                                                                  in
                   ask_smapi_model.v1.skill.history.sort_field_for_intent_requask_tspeapi_model.v1.stage_v2_type), 541
                                                                                                                     STANDARD (ask_sdk_model.interfaces.viewport.presentation_type.Presente
speak() (ask_sdk_core.response_helper.ResponseFactory
                                                                                                                                         attribute), 229
                   method), 18
                                                                                                                     StandardCard
                                                                                                                                                                                       (class
                                                                                                                                                                                                                                 in
                                                                                                                                        ask_sdk_model.ui.standard_card), 310
SpeakDirective
                                                                     (class
                                                                                                             in
                   ask_sdk_model.services.directive.speak_directive)\StandardizedError
                                                                                                                                                                                               (class
                                                                                                                                                                                                                                  in
                                                                                                                                         ask_smapi_model.v1.skill.standardized_error),
                   238
                                                                                                                                         531
SpeakItemCommand
                                                                        (class
                                                                                                             in
                   ask_sdk_model.interfaces.alexa.presentation.apl.sprakn_dtem_doorvendindborCode
                                                                                                                                         ask_smapi_model.v1.skill.standardized_error_code),
                                                                                                                                         531
SpeakListCommand
                                                                        (class
                   ask_sdk_model.interfaces.alexa.presentation.apl.sptakn_distr_clonvindndbuilder
                                                                                                                                                                                                   (class
                                                                                                                                                                                                                                  in
                                                                                                                                         ask sdk.standard), 39
Speed (class in ask sdk model.interfaces.geolocation.speed); and ard SmapiClient Builder
                                                                                                                                                                                                            (class
                                                                                                                                                                                                                                 in
```

```
ask_smapi_sdk.smapi_builder), 53
                                                                                                                                                                                                          ask_sdk_model.interfaces.custom_interface_controller.stop_even
start (ask_sdk_model.services.game_engine.pattern_recognizer_ankhor_type.PatternRecognizerAnchorType
                            attribute), 248
                                                                                                                                                                             StopInputHandlerDirective
start_beta_test_v1()
                                                                                                                                                                                                          ask_sdk_model.interfaces.game_engine.stop_input_handler_direc
                            (ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient
                            method), 358
                                                                                                                                                                             STOPPED (ask_sdk_model.interfaces.audioplayer.player_activity.PlayerAc
StartConnectionDirective
                                                                                                                                                                                                          attribute), 171
                                                                                                                           (class
                                                                                                                                                                in
                            ask_sdk_model.interfaces.connections.v1.start_cobnectionEdiasktisdk_model.interfaces.geolocation.status.Status
                             180
                                                                                                                                                                                                          attribute), 210
                                                                                                                                                                in STOPPING (ask_smapi_model.v1.skill.beta_test.status.Status
StartDirective
                                                                                                      (class
                            ask_sdk_model.interfaces.alexa.presentation.html.start_directivid)ute), 403
                                                                                                                                                                             Stream (class in ask_sdk_model.interfaces.audioplayer.stream),
{\tt STARTED}\ (ask\_sdk\_model.dialog\_state.DialogState\ at-
                            tribute), 314
                                                                                                                                                                             STREAMING_AUDIO (ask_smapi_model.v1.isp.tax_information_category.
StartEventHandlerDirective
                                                                                                                               (class
                                                                                                                                                                in
                                                                                                                                                                                                          attribute), 390
                            ask\_sdk\_model.interfaces.custom\_interface\_contr\\ \textbf{8}\\ \textbf{1}\\ \textbf{2}\\ \textbf{3}\\ \textbf{2}\\ \textbf{1}\\ \textbf{2}\\ \textbf{3}\\ \textbf{2}\\ \textbf{1}\\ \textbf{2}\\ \textbf{3}\\ \textbf{2}\\ \textbf{3}\\ \textbf{3}\\ \textbf{3}\\ \textbf{3}\\ \textbf{3}\\ \textbf{3}\\ \textbf{3}\\ \textbf{3}\\ \textbf{4}\\ \textbf{3}\\ \textbf{3}\\ \textbf{3}\\ \textbf{3}\\ \textbf{4}\\ \textbf{4}\\ \textbf{3}\\ \textbf{4}\\ \textbf{4
                                                                                                                                                                                                          attribute), 390
STARTING (ask_smapi_model.v1.skill.beta_test.status.Statusstring (ask_smapi_model.v1.skill.validation_data_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.ValidationData_types.V
                            attribute), 403
                                                                                                                                                                                                          attribute), 534
StartInputHandlerDirective
                                                                                                                                (class
                                                                                                                                                               in SU(ask_sdk_model.services.reminder_management.recurrence_day.Recurr
                            ask_sdk_model.interfaces.game_engine.start_input_handlenate)e;283
                                                                                                                                                                             submit_skill_for_certification_v1()
                                                                                                                                                                                                          (ask_smapi_model.services.skill_management.skill_management]
StartRequest
                                                                                                 (class
                                                                                                                                                                in
                            ask_sdk_model.interfaces.alexa.presentation.html.start_requaesthod), 358
                                                                                                                                                                             submit_skill_validation_v1()
                                                                                                                                                                                                          (ask_smapi_model.services.skill_management.skill_management_
{\tt StartRequestMethod}
                                                                                                              (class
                                                                                                                                                               in
                            ask_sdk_model.interfaces.alexa.presentation.html.start_requesth_odelthatly,
                                                                                                                                                                             {\tt SubmitSkillForCertificationRequest} ( {\it class}
State (class in ask_sdk_model.interfaces.amazonpay.model.responsaistaste), smapi_model.v1.skill.submit_skill_for_certification_reque.
State(class\ in\ ask\_sdk\_model.interfaces.amazonpay.mode LUBSMOPE)PTION(ask\_sdk\_model.services.monetization.product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_type.Product_typ
                                                                                                                                                                                                          attribute), 271
Status (class in ask_sdk_model.interfaces.geolocation.stafis); SCRIPTION (ask_smapi_model.v1.isp.product_type.ProductType
                                                                                                                                                                                                          attribute), 385
Status (class in ask_sdk_model.services.list_management.Status);riptionInformation
                                                                                                                                                                                                                                                                                                      (class
                                                                                                                                                                                                          ask_smapi_model.v1.isp.subscription_information),
Status (class in ask_sdk_model.services.monetization.status),
                                                                                                                                                                             SubscriptionPaymentFrequency
                                                                                                                                                                                                                                                                                                                (class in
Status (class in ask_sdk_model.services.reminder_management.statusk_smapi_model.v1.isp.subscription_payment_frequency),
Status (class in ask_sdk_model.slu.entityresolution.status); UCCEEDED (ask_smapi_model.v1.catalog.upload.ingestion_status.Ingesti
                                                                                                                                                                                                          attribute), 364
Status (class in ask_sdk_model.status), 330
                                                                                                                                                                             SUCCEEDED (ask_smapi_model.v1.catalog.upload.upload_status.UploadS
Status (class in ask_smapi_model.v1.isp.status), 387
                                                                                                                                                                                                          attribute), 367
Status (class in ask_smapi_model.v1.skill.beta_test.status GUCCEEDED (ask_smapi_model.v1.skill.certification.certification_status.C
                                                                                                                                                                                                          attribute), 405
                                                                                                                                                                            \verb+SUCCEEDED+ (ask\_smapi\_model.v1.skill.interaction\_model.catalog.catalog.)
Status (class in ask_smapi_model.v1.skill.status), 532
StatusCode
                                                                                                                                                                                                          attribute), 426
                            ask_sdk_model.slu.entityresolution.status_code), SUCCEEDED (ask_smapi_model.v1.skill.response_status.ResponseStatus
                                                                                                                                                                                                          attribute), 527
                                                                                                                                                               in SUCCEEDED (ask_smapi_model.v1.skill.status.Status at-
StopDirective
                                                                                                   (class
                            ask_sdk_model.interfaces.audioplayer.stop_directive),
                                                                                                                                                                                                          tribute), 533
                                                                                                                                                                             SUCCESSFUL (ask_smapi_model.v1.skill.simulations.simulations_api_resp
StopEventHandlerDirective
                                                                                                                             (class
                                                                                                                                                               in
                                                                                                                                                                                                          attribute), 511
```

```
SUCCESSFUL (ask_smapi_model.v1.skill.validations.response_validations_sdktunakespainaseyadidations_sdamuslirective.ConfirmSlotDirective
              attribute), 513
                                                                                                    attribute), 69
SUCCESSFUL (ask_smapi_model.v1.skill.validations.validatiopp_appi_sresponseintei_pstatus!\forall fatus typidationsApiResponseStatus
              attribute), 515
                                                                                                    (ask_sdk_model.dialog.delegate_directive.DelegateDirective
successfulSessions
                                                                                                    attribute), 69
              (ask_smapi_model.v1.skill.metrics.metric.Metric supports_multiple_types
             attribute), 503
                                                                                                    (ask_sdk_model.dialog.dynamic_entities_directive.DynamicEntiti
successfulUtterances
                                                                                                    attribute), 70
              (ask_smapi_model.v1.skill.metrics.metric.Metric supports_multiple_types
                                                                                                   (ask_sdk_model.dialog.elicit_slot_directive.ElicitSlotDirective
             attribute), 503
SummaryMarketplacePricing
                                                              (class
                                                                               in
                                                                                                   attribute), 70
             ask_smapi_model.v1.isp.summary_marketplace_pricipgo.rts_multiple_types
                                                                                                    (ask_sdk_model.directive.Directive attribute),
SummaryPriceListing
                                                       (class
             ask_smapi_model.v1.isp.summary_price_listing), supports_multiple_types
              389
                                                                                                    (ask_sdk_model.er.dynamic.entity.Entity
                                                                                                   attribute), 71
SupportedInterfaces
                                                       (class
                                                                               in
              ask_sdk_model.supported_interfaces), 331
                                                                                     supports_multiple_types
supports() (ask_sdk_core.skill.CustomSkill method),
                                                                                                   (ask_sdk_model.er.dynamic.entity_list_item.EntityListItem
                                                                                                    attribute), 71
supports() (ask_sdk_runtime.dispatch_components.requestopomponents.AbstractHandleeAdapter
                                                                                                   (ask_sdk_model.er.dynamic.entity_value_and_synonyms.EntityVa
supports() (ask_sdk_runtime.dispatch_components.request_compatteiltx16)en@ricHandlerAdapter
              method), 8
                                                                                     supports_multiple_types
                                                                                                    (ask_sdk_model.events.skillevents.account_linked_body.Account1
supports()
                              (ask_sdk_runtime.skill.AbstractSkill
             method), 11
                                                                                                   attribute), 73
supports_multiple_types
                                                                                     supports_multiple_types
              (ask_sdk_model.application.Application
                                                                                                    (ask_sdk_model.events.skillevents.account_linked_request.Account_
             attribute), 311
                                                                                                   attribute), 74
supports_multiple_types
                                                                                     supports_multiple_types
              (ask_sdk_model.canfulfill.can_fulfill_intent.CanFulfillIntent(ask_sdk_model.events.skillevents.permission.Permission
             attribute), 66
                                                                                                   attribute), 74
supports_multiple_types
                                                                                     supports_multiple_types
              (ask_sdk_model.canfulfill.can_fulfill_intent_request.CanFulfdklntwiklnupukst.events.skillevents.permission_accepted_request.I
             attribute), 66
                                                                                                    attribute), 75
supports_multiple_types
                                                                                     supports_multiple_types
                                                                                                   (ask\_sdk\_model.events.skillevents.permission\_body.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody.PermissionBody
              (ask_sdk_model.canfulfill.can_fulfill_slot.CanFulfillSlot
              attribute), 67
                                                                                                   attribute), 75
supports_multiple_types
                                                                                     supports_multiple_types
                                                                                                   (ask\_sdk\_model.events.skillevents.permission\_changed\_request.F
              (ask_sdk_model.cause.Cause
                                                                   attribute),
                                                                                                   attribute), 76
supports_multiple_types
                                                                                     supports_multiple_types
              (ask_sdk_model.connection_completed.ConnectionCompletedsk_sdk_model.events.skillevents.proactive_subscription_change
              attribute), 312
                                                                                                   attribute), 76
supports_multiple_types
                                                                                     supports_multiple_types
              (ask_sdk_model.context.Context
                                                                                                   (ask_sdk_model.events.skillevents.proactive_subscription_change
                                                                   attribute),
              313
                                                                                                   attribute), 77
                                                                                     supports_multiple_types
supports_multiple_types
              (ask_sdk_model.device.Device
                                                                   attribute),
                                                                                                   (ask_sdk_model.events.skillevents.proactive_subscription_event.l
                                                                                                   attribute), 77
                                                                                     supports_multiple_types
supports_multiple_types
              (ask sdk model.dialog.confirm intent directive.ConfirmIntentDiselletineodel.events.skillevents.skill disabled request.SkillDis
             attribute), 69
                                                                                                   attribute), 78
supports_multiple_types
                                                                                     supports_multiple_types
```

(ask_sdk_model.events.skillevents.skill_enabled_request.SkilltEribble)LRequest

```
attribute), 78
                                                                                                                    supports_multiple_types
                                                                                                                                       (ask_sdk_model.interfaces.alexa.presentation.apl.component_visa
supports_multiple_types
                   (ask_sdk_model.intent.Intent attribute), 317
                                                                                                                                       attribute), 93
supports_multiple_types
                                                                                                                    supports_multiple_types
                   (ask_sdk_model.intent_request.IntentRequest
                                                                                                                                       (ask_sdk_model.interfaces.alexa.presentation.apl.control_media_
                   attribute), 318
                                                                                                                                       attribute), 94
supports_multiple_types
                                                                                                                    supports_multiple_types
                   (ask_sdk_model.interfaces.alexa.presentation.apl.alexa_prekank<u>ati</u>dk_upklahtatfafæc&sexkeRnepeesatinoni&pll.ptkefæcaste_commo
                                                                                                                                       attribute), 95
                  attribute), 79
supports_multiple_types
                                                                                                                    supports_multiple_types
                   (ask_sdk_model.interfaces.alexa.presentation.apl.animate_i(tank_cxabka/maandk/AintencfleetexxaCoxauprenxentation.apl.idle_command.
                  attribute), 81
                                                                                                                                       attribute), 96
                                                                                                                    supports_multiple_types
supports_multiple_types
                   (ask_sdk_model.interfaces.alexa.presentation.apl.animated_\(\)(apk_cityk_propheritynAenifnaesdOpac;\(\)(pxiz)tydSvopatityn.apl.move_transform
                  attribute), 81
                                                                                                                                        attribute), 96
                                                                                                                    supports_multiple_types
supports_multiple_types
                   (ask_sdk_model.interfaces.alexa.presentation.apl.animated_(pskpsdky_hmiddtindPrfqpext;alexa.presentation.apl.open_url_comn
                                                                                                                                       attribute), 97
                  attribute), 82
supports_multiple_types
                                                                                                                    supports_multiple_types
                   (ask_sdk_model.interfaces.alexa.presentation.apl.animated_(trskn_sfdkmmpdeplanterfairexatddXnaprxfsvmtdtiopearpl.parallel_comm
                   attribute), 82
                                                                                                                                       attribute), 98
supports_multiple_types
                                                                                                                    supports_multiple_types
                   (ask_sdk_model.interfaces.alexa.presentation.apl.auto_pag&askmodkmodedbiPagefaoeswalanda.presentation.apl.play_media_co
                  attribute), 84
                                                                                                                                       attribute), 99
supports_multiple_types
                                                                                                                    supports_multiple_types
                   (ask_sdk_model.interfaces.alexa.presentation.apl.clear_foct(si<sub>s</sub>k<sub>o</sub>nthambdelkintFofactsGahmantesentation.apl.render_docume
                  attribute), 84
                                                                                                                                       attribute), 100
supports_multiple_types
                                                                                                                    supports_multiple_types
                   (ask_sdk_model.interfaces.alexa.presentation.apl.command(@skn_sdkh_dnodel.interfaces.alexa.presentation.apl.rendered_docum
                  attribute), 86
                                                                                                                                       attribute), 100
supports_multiple_types
                                                                                                                    supports_multiple_types
                   (ask\_sdk\_model.interfaces.alexa.presentation.apl.componenta.kntiktk<math>CmnpohinteEfaites.alexa.presentation.apl.rotate\_transfor.
                   attribute), 86
                                                                                                                                       attribute), 101
supports_multiple_types
                                                                                                                    supports_multiple_types
                   (ask_sdk_model.interfaces.alexa.presentation.apl.componentasksishdk_model.interfaces.alexa.presentation.apl.componentasksishdk_model.interfaces.alexa.presentation.apl.componentasksishdk_model.interfaces.alexa.presentation.apl.componentasksishdk_model.interfaces.alexa.presentation.apl.componentasksishdk_model.interfaces.alexa.presentation.apl.componentasksishdk_model.interfaces.alexa.presentation.apl.componentasksishdk_model.interfaces.alexa.presentation.apl.componentasksishdk_model.interfaces.alexa.presentation.apl.componentasksishdk_model.interfaces.alexa.presentation.apl.componentasksishdk_model.interfaces.alexa.presentation.apl.componentasksishdk_model.interfaces.alexa.presentation.apl.componentasksishdk_model.interfaces.alexa.presentation.apl.componentasksishdk_model.interfaces.alexa.presentation.apl.componentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.interfaces.alexa.presentasksishdk_model.inter
                  attribute), 88
                                                                                                                                       attribute), 101
supports_multiple_types
                                                                                                                    supports_multiple_types
                   (ask_sdk_model.interfaces.alexa.presentation.apl.componen<u>tasksiktk_nooddriveterfixte</u>statextuprExempaticentAfikiktleWnBacesfobii
                  attribute), 88
                                                                                                                                       attribute), 102
supports_multiple_types
                                                                                                                    supports_multiple_types
                   (ask_sdk_model.interfaces.alexa.presentation.apl.componen<u>taskisiklk_prod</u>edr<del>aeverfixte_sagl&aupperenttKioible@ks&coble_cbissFiag</del>e
                                                                                                                                       attribute), 102
                  attribute), 89
                                                                                                                    supports_multiple_types
supports_multiple_types
                   (ask_sdk_model.interfaces.alexa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisalkasa.presentation.apl.componentastisistik_productivenerfaedisa.presentation.apl.componentastisistik_productivenerfaedisa.presentation.presentation.apl.componentastisistik_productivenerfaedisa.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.present
                   attribute), 90
                                                                                                                                        attribute), 103
supports_multiple_types
                                                                                                                    supports_multiple_types
                   (ask_sdk_model.interfaces.alexa.presentation.apl.componen<u>tasksiktk_mode</u>dr<del>penerfuges</del>r<u>a</u>legaGpengennentvixiples@m&<u>c</u>evenP<u>a</u>ge
                  attribute), 91
                                                                                                                                       attribute), 104
supports_multiple_types
                                                                                                                    supports_multiple_types
                   (ask_sdk_model.interfaces.alexa.presentation.apl.componentaskisiklk_modelrinterfaceslableatpge&comptonent\text{lisibleOntidramb}
                  attribute), 91
                                                                                                                                       attribute), 105
supports_multiple_types
                                                                                                                    supports_multiple_types
```

660 Index

(ask_sdk_model.interfaces.alexa.presentation.apl.componen<u>taskisiklk_pnod</u>edrpeperfages@dexpoprent&ixibil@Qa\$l:seenfTiczes_comr

```
attribute), 106
                                                                                                   attribute), 119
                                                                                    supports_multiple_types
supports_multiple_types
              (ask_sdk_model.interfaces.alexa.presentation.apl.set_page_(aask_nsakkdrfiotRd;ietCarfanassallexa.presentation.aplt.send_event_co
              attribute), 107
                                                                                                   attribute), 120
supports_multiple_types
                                                                                    supports_multiple_types
              (ask_sdk_model.interfaces.alexa.presentation.apl.set_state_@ask_makkd_BetSabtet@afanamallexa.presentation.aplt.sequential_con
              attribute), 108
                                                                                                   attribute), 122
                                                                                     supports_multiple_types
supports_multiple_types
              (ask_sdk_model.interfaces.alexa.presentation.apl.set_value<u>(aokundhah&ad&linteCfaanxaale</u>xa.presentation.aplt.set_page_com
                                                                                                   attribute), 122
             attribute), 108
supports_multiple_types
                                                                                    supports_multiple_types
              (ask_sdk_model.interfaces.alexa.presentation.apl.skew_tran<mark>xfokmsdkroporte/Skew/JaaessfahmaP.prpzert/</mark>ation.aplt.set_value_com
                                                                                                   attribute), 123
             attribute), 109
                                                                                     supports_multiple_types
supports_multiple_types
              (ask_sdk_model.interfaces.alexa.presentation.apl.speak_itet<u>(askorsobka</u>mb&pkinkleefaCassorbexacpresentation.aplt.user_event.Usa
             attribute), 110
                                                                                                   attribute), 124
supports_multiple_types
                                                                                     supports_multiple_types
              (ask_sdk_model.interfaces.alexa.presentation.apl.speak_list(axkmxdkmah&pekktiust@axmahada.presentation.html.alexa_present
             attribute), 111
                                                                                                   attribute), 125
supports_multiple_types
                                                                                     supports_multiple_types
              (ask_sdk_model.interfaces.alexa.presentation.apl.transform(wslopedky.Hindusfiontaffaces.nt/exa.presentation.html.configuration.
              attribute), 111
                                                                                                   attribute), 125
supports_multiple_types
                                                                                     supports_multiple_types
              (ask_sdk_model.interfaces.alexa.presentation.apl.user_eventdslsesEkentodel.interfaces.alexa.presentation.html.handle_messa
             attribute), 112
                                                                                                   attribute), 126
supports_multiple_types
                                                                                    supports_multiple_types
              (ask_sdk_model.interfaces.alexa.presentation.apl.video_souwask<u>Vidbko</u>Swoodeel.interfaces.alexa.presentation.html.message_requ
             attribute), 112
                                                                                                   attribute), 126
supports_multiple_types
                                                                                     supports_multiple_types
              (ask_sdk_model.interfaces.alexa.presentation.aplt.alexa_presentation.aplt_lintenfacesAldexApersesetatiaoiocApltIntlerfactione.Runtio
             attribute), 113
                                                                                                   attribute), 127
supports_multiple_types
                                                                                     supports_multiple_types
              (ask_sdk_model.interfaces.alexa.presentation.aplt.auto_pag<del>(a.xlopsdka</del>mdbAutoiPrex&Coesnaland.presentation.html.start_directive
              attribute), 114
                                                                                                   attribute), 128
supports_multiple_types
                                                                                     supports_multiple_types
              (ask_sdk_model.interfaces.alexa.presentation.aplt.command_68kmsdkndhodel.interfaces.alexa.presentation.html.start_request..
             attribute), 115
                                                                                                   attribute), 128
supports_multiple_types
                                                                                    supports_multiple_types
              (ask_sdk_model.interfaces.alexa.presentation.aplt.execute_(owth<u>n</u>solkl_smbiolel:tiivte:Ḥaeeata@ompnanelsDitionthtenl.transformer.Tr
             attribute), 116
                                                                                                   attribute), 129
supports_multiple_types
                                                                                    supports_multiple_types
              (ask_sdk_model.interfaces.alexa.presentation.aplt.idle_comtaashdslille_Giorhrhimtelrfaces.amazonpay.model.request.authorize_a
                                                                                                   attribute), 131
             attribute), 116
                                                                                    supports_multiple_types
supports_multiple_types
              (ask_sdk_model.interfaces.alexa.presentation.aplt.parallel_coskmakd_iPortell.itConfunes.dmazonpay.model.request.base_amazo
             attribute), 117
                                                                                                   attribute), 132
supports_multiple_types
                                                                                    supports_multiple_types
              (ask_sdk_model.interfaces.alexa.presentation.aplt.render_dxash<u>n</u>edk_dinadel.interfaces.alexa.presentation.aplt.render_dxash<u>n</u>edk_dinadel.interfaces.alexa.presentation.aplt.render_dxash<u>nedk_dinadel.interfaces.alexa.presentation.aplt.render_dxashnedk_dinadel.interfaces.alexa.presentation.aplt.render_dxashnedk_dinadel.interfaces.alexa.presentation.aplt.render_dxashnedk_dinadel.interfaces.alexa.presentation.aplt.render_dxashnedk_dinadel.interfaces.alexa.presentation.aplt.render_dxashnedk_dinadel.interfaces.alexa.presentation.aplt.render_dxashnedk_dinadel.interfaces.alexa.presentation.aplt.render_dxashnedk_dinadel.interfaces.alexa.presentation.aplt.render_dxashnedk_dinadel.interfaces.alexa.presentation.aplt.render_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxashnedk_dxa</u>
             attribute), 118
                                                                                                   attribute), 133
supports_multiple_types
                                                                                     supports_multiple_types
              (ask_sdk_model.interfaces.alexa.presentation.aplt.runtime.Runkinsek_model.interfaces.amazonpay.model.request.price.Price
             attribute), 118
                                                                                                   attribute), 134
supports_multiple_types
                                                                                    supports_multiple_types
```

(ask_sdk_model.interfaces.alexa.presentation.aplt.scroll_co**tanska.sdllSorallC**bi**nteafac**es.amazonpay.model.request.provider_at

```
attribute), 135
                                                                                                                                   attribute), 153
supports_multiple_types
                                                                                                                 supports_multiple_types
                   (ask_sdk_model.interfaces.amazonpay.model.request.provid@rsdr.edkt_Prodel.em@rfdcres.amazonpay.model.v1.seller_order_attr
                  attribute), 135
                                                                                                                                   attribute), 154
supports_multiple_types
                                                                                                                 supports_multiple_types
                  (ask_sdk_model.interfaces.amazonpay.model.request.seller_(bilkinglkazmeebekintteaftributenteefaces.amazonpay.model.request.seller_(bilkinglkazmeebekintteaftributenteefaces.amazonpay.model.request.seller_(bilkinglkazmeebekintteaftributenteefaces.amazonpay.model.request.seller_(bilkinglkazmeebekintteaftributenteefaces.amazonpay.model.request.seller_(bilkinglkazmeebekintteaftributenteefaces.amazonpay.model.request.seller_(bilkinglkazmeebekintteaftributenteefaces.amazonpay.model.request.seller_(bilkinglkazmeebekintteaftributenteefaces.amazonpay.model.request.seller_(bilkinglkazmeebekintteaftributenteefaces.amazonpay.model.request.seller_(bilkinglkazmeebekintteaftributenteefaces.amazonpay.model.request.seller_(bilkinglkazmeebekintteaftributenteefaces.amazonpay.model.request.seller_(bilkinglkazmeebekintteaftributenteefaces.amazonpay.model.request.seller_(bilkinglkazmeebekintteaftributenteefaces.amazonpay.model.request.seller_(bilkinglkazmeebekintteaftributenteefaces.amazonpay.model.request.seller_(bilkinglkazmeebekintteaftributenteefaces.amazonpay.model.request.seller_(bilkinglkazmeebekintteaftributenteefaces.amazonpay.model.request.seller_(bilkinglkazmeebekintteaftributenteefaces.amazonpay.model.request.seller_(bilkinglkazmeebekintteaftributenteefaces.amazonpay.model.request.seller_(bilkinglkazmeebekintteaftributenteefaces.amazonpay.model.request.seller_(bilkinglkazmeebekintteaftributenteefaces.amazonpay.model.request.seller_(bilkintteaftributenteefaces.amazonpay.model.request.seller_(bilkintteaftributenteefaces.amazonpay.model.request.seller_(bilkintteaftributenteefaces.amazonpay.model.request.seller_(bilkintteaftributenteefaces.amazonpay.amazonpay.model.request.seller_(bilkintteaftributenteefaces.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.amazonpay.ama
                  attribute), 136
                                                                                                                                   attribute), 155
supports_multiple_types
                                                                                                                 supports_multiple_types
                   (ask_sdk_model.interfaces.amazonpay.model.request.seller_(orsdke<u>rs.d</u>kt<u>t</u>rnibudtedsiSeelt&nOoxlanAatxihptessrequest.setup_amazon_pa
                  attribute), 137
                                                                                                                                   attribute), 156
                                                                                                                 supports_multiple_types
supports_multiple_types
                   (ask_sdk_model.interfaces.amazonpay.model.response.auth@nistatisdk_daddels.iAtatfacies.timuDatapilsy.response.amazon_pay_err
                                                                                                                                   attribute), 157
                  attribute), 139
                                                                                                                 supports_multiple_types
supports_multiple_types
                  (ask_sdk_model.interfaces.amazonpay.model.response.auth@nixlatisdk_models.Auth@nixlatisdk_models.interfaces.amazonpay.model.response.auth@nixlatisdk_models.Auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdk_models.auth@nixlatisdkk_models.auth@nixlatisdkk_models.auth@nixlatisdkk_models.auth@nixlatisdkk_models.auth@nixlatisdkk_models.auth@nixlatisdkk_model
                  attribute), 140
                                                                                                                                    attribute), 158
supports_multiple_types
                                                                                                                 supports_multiple_types
                   (ask_sdk_model.interfaces.amazonpay.model.response.billin(<u>grshgsdkm</u>wood<u>l</u>aleiwuidsfBickinxyAgzoeupuay.nDxpoilse.setup_amazon_p
                  attribute), 141
                                                                                                                                   attribute), 158
                                                                                                                 supports_multiple_types
supports_multiple_types
                  (ask_sdk_model.interfaces.amazonpay.model.response.destituationsdle.mimdel.interfaces.amazonpay.v1.amazon_pay_error_res
                  attribute), 142
                                                                                                                                   attribute), 159
supports_multiple_types
                                                                                                                 supports_multiple_types
                  (ask_sdk_model.interfaces.amazonpay.model.response.priced.thshicsdk_model.interfaces.amazonpay.v1.charge_amazon_pay.Cl
                  attribute), 142
                                                                                                                                   attribute), 160
supports_multiple_types
                                                                                                                 supports_multiple_types
                   (ask_sdk_model.interfaces.amazonpay.model.v1.authorizati&us<u>kle</u>sdkl_svAndhbinitatfanDetwikzonpay.v1.charge_amazon_pay_re
                  attribute), 145
                                                                                                                                   attribute), 160
supports_multiple_types
                                                                                                                 supports_multiple_types
                  (ask_sdk_model.interfaces.amazonpay.model.v1.authorizati@ask_statiks_Anothalrintati@askastausnazonpay.v1.setup_amazon_pay.Setu
                  attribute), 146
                                                                                                                                   attribute), 161
supports_multiple_types
                                                                                                                 supports_multiple_types
                   (ask_sdk_model.interfaces.amazonpay.model.v1.authorize_uttskb_stls_Authol:iraAutfailnstesnazonpay.v1.setup_amazon_pay_res
                  attribute), 147
                                                                                                                                   attribute), 162
                                                                                                                 supports_multiple_types
supports_multiple_types
                  (ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreankerstlkaturibledeinBilfingAgenedinplaAenibudies_item.AudioItem
                  attribute), 147
                                                                                                                                   attribute), 162
supports_multiple_types
                                                                                                                 supports_multiple_types
                   (ask_sdk_model.interfaces.amazonpay.model.v1.billing_agreankerstlkdetwidke.BiiltingAcexe.amdiapDaxeilsuudio_item_metadata.Auc
                                                                                                                                   attribute), 163
                  attribute), 148
                                                                                                                 supports_multiple_types
supports_multiple_types
                   (ask_sdk_model.interfaces.amazonpay.model.v1.destination(Delstindhi_model.interfaces.audioplayer.audio_player_interface.A
                  attribute), 150
                                                                                                                                   attribute), 163
supports_multiple_types
                                                                                                                 supports_multiple_types
                  (ask_sdk_model.interfaces.amazonpay.model.v1.price.Price(ask_sdk_model.interfaces.audioplayer.audio_player_state.Audio
                  attribute), 151
                                                                                                                                    attribute), 164
supports_multiple_types
                                                                                                                 supports_multiple_types
                   (ask_sdk_model.interfaces.amazonpay.model.v1.provider_a(taskutsekPmoxdde.interfautessaudioplayer.caption_data.CaptionDat
                  attribute), 152
                                                                                                                                   attribute), 164
                                                                                                                 supports_multiple_types
supports_multiple_types
                  (ask_sdk_model.interfaces.amazonpay.model.v1.provider_checktr_Rdkv_interderfaces.audioplayer.clear_queue_directive.Cle
                  attribute), 152
                                                                                                                                   attribute), 165
supports_multiple_types
                                                                                                                 supports_multiple_types
```

(ask_sdk_model.interfaces.amazonpay.model.v1.seller_billin<u>gslagsdelmantle</u>dtimtbrftæseSælledBiplingeAgrævenenpAttylhude<u>s</u>state.C

attribute), 177

attribute), 166

```
supports_multiple_types
                                                                                                                                             supports_multiple_types
                       (ask_sdk_model.interfaces.audioplayer.error.Error
                                                                                                                                                                     (ask_sdk_model.interfaces.connections.requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.print_pdf_requests.prin
                       attribute), 166
                                                                                                                                                                     attribute), 177
supports_multiple_types
                                                                                                                                             supports_multiple_types
                       (ask_sdk_model.interfaces.audioplayer.play_directive.Play_Directivek_model.interfaces.connections.requests.print_web_page_
                       attribute), 167
                                                                                                                                                                     attribute), 178
                                                                                                                                              supports_multiple_types
supports_multiple_types
                       (ask_sdk_model.interfaces.audioplayer.playback_failed_req(wsk_Blk<u>k</u>)noklFhiledReques.stonnections.requests.schedule_food_e
                                                                                                                                                                     attribute), 178
                       attribute), 168
supports_multiple_types
                                                                                                                                              supports_multiple_types
                       (ask_sdk_model.interfaces.audioplayer.playback_finished_rkqslessAklayloaleHFinisylladAsegovenections.requests.schedule_taxi_re
                                                                                                                                                                     attribute), 179
                       attribute), 169
                                                                                                                                              supports_multiple_types
supports_multiple_types
                       (ask_sdk_model.interfaces.audioplayer.playback_nearly_fin(slskd_sdkqnextl#llintlenftdeearbyFinitsibedReqdestequest_directive.Se
                       attribute), 169
                                                                                                                                                                     attribute), 183
supports_multiple_types
                                                                                                                                              supports_multiple_types
                       (ask_sdk_model.interfaces.audioplayer.playback_started_re(pokst.sHk1yhadkSimterflReasuestnections.send_response_directive.s
                       attribute), 170
                                                                                                                                                                     attribute), 184
supports_multiple_types
                                                                                                                                              supports_multiple_types
                       (ask_sdk_model.interfaces.audioplayer.playback_stopped_requies.sdkl_avyloadekl.SntppfedkRs.apoerstections.v1.start_connection_directions.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.start_connection_directions.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.start_connection_directions.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl_avyloadekl.SntppfedkRs.apoerstections.v2.sdkl
                       attribute), 171
                                                                                                                                                                     attribute), 180
supports_multiple_types
                                                                                                                                             supports_multiple_types
                       (ask_sdk_model.interfaces.audioplayer.stop_directive.StopDirektisdk_model.interfaces.custom_interface_controller.endpoint.
                       attribute), 171
                                                                                                                                                                     attribute), 184
                                                                                                                                             supports_multiple_types
supports_multiple_types
                       (ask_sdk_model.interfaces.audioplayer.stream.Stream
                                                                                                                                                                     (ask_sdk_model.interfaces.custom_interface_controller.event.Eve
                       attribute), 172
                                                                                                                                                                     attribute), 185
supports_multiple_types
                                                                                                                                             supports_multiple_types
                       (ask_sdk_model.interfaces.automotive.automotive_state.Aut(ask_isdlState)del.interfaces.custom_interface_controller.event_filt
                       attribute), 173
                                                                                                                                                                     attribute), 186
supports_multiple_types
                                                                                                                                             supports_multiple_types
                       (ask_sdk_model.interfaces.connections.connections_request(@xh<u>usekti</u>mxkdqinestfaces.custom_interface_controller.events_re
                       attribute), 181
                                                                                                                                                                     attribute), 186
supports_multiple_types
                                                                                                                                             supports_multiple_types
                       (ask_sdk_model.interfaces.connections.connections_respon\cdot alkondk_thook#k.enpenfsees.custom_interface_controller.expiration
                       attribute), 182
                                                                                                                                                                     attribute), 187
supports_multiple_types
                                                                                                                                             supports_multiple_types
                       (ask_sdk_model.interfaces.connections.connections_status. Casth_exdko_ns&detuisnterfaces.custom_interface_controller.expired_r
                       attribute), 183
                                                                                                                                                                     attribute), 188
supports_multiple_types
                                                                                                                                              supports_multiple_types
                       (ask_sdk_model.interfaces.connections.entities.base_entity.Rask_Extktymodel.interfaces.custom_interface_controller.header.H
                       attribute), 174
                                                                                                                                                                     attribute), 188
                                                                                                                                             supports_multiple_types
supports_multiple_types
                       (ask_sdk_model.interfaces.connections.entities.postal_address:Postkl_hdeltek.interfaces.custom_interface_controller.send_dire
                       attribute), 174
                                                                                                                                                                     attribute), 189
supports_multiple_types
                                                                                                                                             supports_multiple_types
                       (ask_sdk_model.interfaces.connections.entities.restaurant.Rexsku.sdkt_model.interfaces.custom_interface_controller.start_ever
                       attribute), 175
                                                                                                                                                                     attribute), 190
supports_multiple_types
                                                                                                                                              supports_multiple_types
                       (ask_sdk_model.interfaces.connections.requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_requests.base_reques
                       attribute), 176
                                                                                                                                                                     attribute), 190
supports_multiple_types
                                                                                                                                             supports_multiple_types
                       (ask_sdk_model.interfaces.connections.requests.print_imag&askqxdkt_PridelinateeReapsestsplay.body_template1.BodyTemplate
```

```
attribute), 191
                                                                                                                                                                            attribute), 201
supports_multiple_types
                                                                                                                                                    supports_multiple_types
                         (ask\_sdk\_model.interfaces.display.body\_template2.BodyTempkkt\_\&dk\_model.interfaces.display.template.Template
                        attribute), 192
                                                                                                                                                                             attribute), 202
supports_multiple_types
                                                                                                                                                    supports_multiple_types
                        (ask_sdk_model.interfaces.display.body_template3.BodyTempkttestlk_model.interfaces.display.text_content.TextContent
                        attribute), 193
                                                                                                                                                                            attribute), 202
supports_multiple_types
                                                                                                                                                    supports_multiple_types
                         (ask_sdk_model.interfaces.display.body_template6.BodyTempkateGilk_model.interfaces.display.text_field.TextField
                        attribute), 193
                                                                                                                                                                            attribute), 203
supports_multiple_types
                                                                                                                                                    supports_multiple_types
                         (ask_sdk_model.interfaces.display.body_template7.BodyTempkktesdk_model.interfaces.gadget_controller.set_light_directive.S
                        attribute), 194
                                                                                                                                                                            attribute), 204
supports_multiple_types
                                                                                                                                                    supports_multiple_types
                        (ask_sdk_model.interfaces.display.display_interface.Display.htmlersdke_model.interfaces.game_engine.input_handler_event_red
                        attribute), 194
                                                                                                                                                                             attribute), 205
supports_multiple_types
                                                                                                                                                    supports_multiple_types
                         (ask_sdk_model.interfaces.display.display_state.DisplaySta(ask_sdk_model.interfaces.game_engine.start_input_handler_din
                        attribute), 195
                                                                                                                                                                            attribute), 205
                                                                                                                                                    supports_multiple_types
supports_multiple_types
                        (ask_sdk_model.interfaces.display.element_selected_request_dslensektSnhadvediReqfaxxts.game_engine.stop_input_handler_dire
                        attribute), 195
                                                                                                                                                                            attribute), 206
supports_multiple_types
                                                                                                                                                    supports_multiple_types
                        (ask_sdk_model.interfaces.display.hint.Hint
                                                                                                                                                                            (ask_sdk_model.interfaces.geolocation.altitude.Altitude
                        attribute), 196
                                                                                                                                                                            attribute), 207
supports_multiple_types
                                                                                                                                                    supports_multiple_types
                         (ask_sdk_model.interfaces.display.hint_directive.HintDirect(usk_sdk_model.interfaces.geolocation.coordinate.Coordinate
                        attribute), 196
                                                                                                                                                                            attribute), 207
supports_multiple_types
                                                                                                                                                    supports_multiple_types
                                                                                                                                                                            (ask\_sdk\_model.interfaces.geolocation.geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geolocation\_interface.Geol
                        (ask_sdk_model.interfaces.display.image.Image
                        attribute), 197
                                                                                                                                                                            attribute), 208
supports_multiple_types
                                                                                                                                                    supports_multiple_types
                         (ask\_sdk\_model.interfaces.display.image\_instance.ImageInstanste\_sdk\_model.interfaces.geolocation.geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geolocation\_state.Geo
                        attribute), 197
                                                                                                                                                                            attribute), 208
supports_multiple_types
                                                                                                                                                    supports_multiple_types
                        (ask_sdk_model.interfaces.display.list_item.ListItem
                                                                                                                                                                            (ask_sdk_model.interfaces.geolocation.heading.Heading
                        attribute), 198
                                                                                                                                                                            attribute), 209
supports_multiple_types
                                                                                                                                                    supports_multiple_types
                         (ask\_sdk\_model.interfaces.display.list\_template1.ListTemplatesk\_sdk\_model.interfaces.geolocation.location\_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Location_services.Loc
                                                                                                                                                                            attribute), 209
                        attribute), 199
                                                                                                                                                    supports_multiple_types
supports_multiple_types
                         (ask_sdk_model.interfaces.display.list_template2.ListTemplate3k_sdk_model.interfaces.geolocation.speed.Speed
                        attribute), 199
                                                                                                                                                                            attribute), 210
supports_multiple_types
                                                                                                                                                    supports_multiple_types
                        (ask\_sdk\_model.interfaces.display.plain\_text.PlainText
                                                                                                                                                                            (ask\_sdk\_model.interfaces.messaging.message\_received\_request.
                        attribute), 200
                                                                                                                                                                             attribute), 211
                                                                                                                                                    supports_multiple_types
supports_multiple_types
                         (ask_sdk_model.interfaces.display.plain_text_hint.PlainText[diskt_sdk_model.interfaces.monetization.v1.in_skill_product.InSk.
                        attribute), 200
                                                                                                                                                                            attribute), 212
                                                                                                                                                    supports_multiple_types
supports_multiple_types
                        (ask_sdk_model.interfaces.display.render_template_directiveaRlensdblr_TimpledsimDirfactivesenavigation.assistance.announce_road_
                        attribute), 200
                                                                                                                                                                            attribute), 213
supports_multiple_types
                                                                                                                                                    supports_multiple_types
```

(ask sdk model.interfaces.navigation.navigation interface.Navig

(ask sdk model.interfaces.display.rich text.RichText

```
attribute), 213
                                                               attribute), 228
supports_multiple_types
                                                      supports_multiple_types
         (ask_sdk_model.interfaces.playbackcontroller.next_comman<mark>dishs_snækl_maqdælstrikærft&ønvniændlentvædfæeiguext</mark>.Experience
        attribute), 214
                                                               attribute), 228
supports_multiple_types
                                                      supports_multiple_types
        (ask sdk model.interfaces.playbackcontroller.pause commándki.sslkednælqliestelflause.Cviennpord.lsizueedRainestus viewport siz
        attribute), 215
                                                               attribute), 224
supports_multiple_types
                                                      supports_multiple_types
         (ask_sdk_model.interfaces.playbackcontroller.play_comman<mark>ds.ks.ssdkl_maqled.sin.PdrfqCesnviramplbsstvscdRdipacest</mark>e_viewport_size.L
        attribute), 215
                                                               attribute), 224
supports_multiple_types
                                                      supports_multiple_types
         (ask_sdk_model.interfaces.playbackcontroller.previous_cominshackdks.neolder.interfArex.inexApommizadkssupdRegiæsNiewportS
                                                               attribute), 225
        attribute), 216
supports_multiple_types
                                                      supports_multiple_types
        (ask_sdk_model.interfaces.system.error.Error
                                                               (ask_sdk_model.interfaces.viewport.typed_viewport_state.TypedV
        attribute), 216
                                                               attribute), 231
supports_multiple_types
                                                      supports_multiple_types
         (ask_sdk_model.interfaces.system.error_cause.ErrorCause (ask_sdk_model.interfaces.viewport.viewport_state.ViewportState
        attribute), 217
                                                               attribute), 232
supports_multiple_types
                                                      supports_multiple_types
        (ask_sdk_model.interfaces.system.exception_encountered_rkqsiks_tdkx_opptionEnterfamates.exiRepponestiewport_state_video.Video
        attribute), 218
                                                               attribute), 232
                                                      supports_multiple_types
supports_multiple_types
         (ask_sdk_model.interfaces.system.system_state.SystemState(ask_sdk_model.interfaces.viewport.viewport_video.ViewportVide
        attribute), 218
                                                               attribute), 232
supports_multiple_types
                                                      supports_multiple_types
         (ask_sdk_model.interfaces.tasks.complete_task_directive.CowskleselkaskDdeedtiuech_request.LaunchRequest
        attribute), 219
                                                               attribute), 319
supports_multiple_types
                                                      supports_multiple_types
        (ask_sdk_model.interfaces.videoapp.launch_directive.Laundatkirsdlivenodel.permissions.Permissions
        attribute), 220
                                                               attribute), 320
supports_multiple_types
                                                      supports_multiple_types
         (ask_sdk_model.interfaces.videoapp.metadata.Metadata
                                                              (ask_sdk_model.person.Person
                                                                                                attribute),
        attribute), 220
supports_multiple_types
                                                      supports_multiple_types
        (ask_sdk_model.interfaces.videoapp.video_app_interface.VidexkAppllmtanfduderequest.Request
                                                                                                attribute),
        attribute), 220
supports_multiple_types
                                                      supports_multiple_types
         (ask_sdk_model.interfaces.videoapp.video_item.VideoItem (ask_sdk_model.request_envelope.RequestEnvelope
        attribute), 221
                                                               attribute), 324
supports_multiple_types
                                                      supports_multiple_types
         (ask_sdk_model.interfaces.viewport.apl.current_configurati@ask_usdk_nt@adeftgusptiose.Response attribute),
        attribute), 222
supports_multiple_types
                                                      supports_multiple_types
        (ask_sdk_model.interfaces.viewport.apl.viewport_configurationk_Vidwpartdebnfisporationenvelope.ResponseEnvelope
        attribute), 222
                                                               attribute), 325
supports_multiple_types
                                                      supports_multiple_types
         (ask_sdk_model.interfaces.viewport.apl_viewport_state.API(MiskypalktShumbel.scope.Scope attribute), 326
        attribute), 227
                                                      supports_multiple_types
                                                               (ask_sdk_model.services.device_address.address.Address
supports_multiple_types
        (ask_sdk_model.interfaces.viewport.aplt.inter_segment.Intersegibetet), 234
                                                      supports_multiple_types
        attribute), 223
supports_multiple_types
                                                               (ask_sdk_model.services.device_address.error.Error
         (ask sdk model.interfaces.viewport.aplt viewport state.APliffNlewp) n State
```

```
supports_multiple_types
                                                     supports_multiple_types
         (ask_sdk_model.services.device_address.short_address.ShottAtldsdks_model.services.game_engine.pattern_recognizer.Pattern
        attribute), 235
                                                              attribute), 247
supports_multiple_types
                                                     supports_multiple_types
         (ask_sdk_model.services.directive.directive.Directive
                                                              (ask_sdk_model.services.game_engine.progress_recognizer.Progr
        attribute), 236
                                                              attribute), 248
                                                     supports_multiple_types
supports_multiple_types
         (ask_sdk_model.services.directive.error.Error
                                                              (ask_sdk_model.services.game_engine.recognizer.Recognizer
        attribute), 237
                                                              attribute), 249
supports_multiple_types
                                                     supports_multiple_types
         (ask_sdk_model.services.directive.header.Header
                                                              (ask_sdk_model.services.list_management.alexa_list.AlexaList
        attribute), 237
                                                              attribute), 250
                                                     supports_multiple_types
supports_multiple_types
        (ask_sdk_model.services.directive.send_directive_request.SendDirectiveRequestvices.list_management.alexa_list_item.AlexaL
        attribute), 237
                                                              attribute), 250
supports_multiple_types
                                                     supports_multiple_types
        (ask_sdk_model.services.directive.speak_directive.SpeakDiratkysdk_model.services.list_management.alexa_list_metadata.A
        attribute), 238
                                                              attribute), 251
supports_multiple_types
                                                     supports_multiple_types
         (ask_sdk_model.services.endpoint_enumeration.endpoint_cupsbisidk_Endpelist&aipabillists_management.alexa_lists_metadata./
        attribute), 238
                                                              attribute), 251
supports_multiple_types
                                                     supports_multiple_types
         (ask_sdk_model.services.endpoint_enumeration.endpoint_ehaske_salkiomodespoeuseiÆasdixtintlinaguementonReasteo_hist_item_reque
        attribute), 239
                                                              attribute), 252
supports_multiple_types
                                                     supports_multiple_types
         (ask_sdk_model.services.endpoint_enumeration.endpoint_infasEndfkointldfb.services.list_management.create_list_request.Cr
        attribute), 240
                                                              attribute), 252
                                                     supports_multiple_types
supports_multiple_types
        (ask_sdk_model.services.endpoint_enumeration.error.Error(ask_sdk_model.services.list_management.error.Error
                                                              attribute), 253
        attribute), 240
supports_multiple_types
                                                     supports_multiple_types
         (ask_sdk_model.services.gadget_controller.animation_step.Aasik<u>n</u>astlk<u>n</u>tstæøel.services.list_management.forbidden_error.Forbid
                                                              attribute), 253
        attribute), 241
supports_multiple_types
                                                     supports_multiple_types
         (ask_sdk_model.services.gadget_controller.light_animation.(laisthtsAdkinnawidal.services.list_management.links.Links
        attribute), 242
                                                              attribute), 253
supports_multiple_types
                                                     supports_multiple_types
         (ask_sdk_model.services.gadget_controller.set_light_param@usks_&&kLightled.wæmeitæsslist_management.list_body.ListBody
        attribute), 242
                                                              attribute), 254
supports_multiple_types
                                                     supports_multiple_types
         (ask_sdk_model.services.game_engine.deviation_recognizer(Dxlv.isdlonRædel;näzvices.list_management.list_created_event_req
        attribute), 243
                                                              attribute), 254
                                                     supports_multiple_types
supports_multiple_types
        (ask_sdk_model.services.game_engine.event.Event
                                                              (ask_sdk_model.services.list_management.list_deleted_event_req
        attribute), 244
                                                              attribute), 255
                                                     supports_multiple_types
supports_multiple_types
         (ask_sdk_model.services.game_engine.input_event.InputEv&msk_sdk_model.services.list_management.list_item_body.ListIter
        attribute), 245
                                                              attribute), 255
supports_multiple_types
                                                     supports_multiple_types
         (ask_sdk_model.services.game_engine.input_handler_event(hrskutsldk_ndsketElv&entvices.list_management.list_items_created_eve
        attribute), 246
                                                              attribute), 256
supports_multiple_types
                                                     supports_multiple_types
        (ask_sdk_model.services.game_engine.pattern.Pattern
                                                              (ask_sdk_model.services.list_management.list_items_deleted_eve
        attribute), 246
                                                              attribute), 257
```

```
supports_multiple_types
                                                                                  supports_multiple_types
             (ask_sdk_model.services.list_management.list_items_updat@dskysdk_raqdektsbirsthtesnssbipiddtadEncemaRennersterror.Error
                                                                                               attribute), 279
             attribute), 258
                                                                                  supports_multiple_types
supports_multiple_types
             (ask_sdk_model.services.list_management.list_updated_eve(ntske_gdkstnladtll.pelatiadE.vemRadprestnanagement.event.Event
             attribute), 261
                                                                                               attribute), 279
                                                                                  supports_multiple_types
supports_multiple_types
             (ask_sdk_model.services.list_management.status.Status
                                                                                               (ask_sdk_model.services.reminder_management.get_reminder_re
             attribute), 262
                                                                                                attribute), 280
supports_multiple_types
                                                                                  supports_multiple_types
             (ask_sdk_model.services.list_management.update_list_item_(ask_uxdk_Upddet/sixt\texsReyniexder_management.get_reminders_r
             attribute), 262
                                                                                               attribute), 281
supports_multiple_types
                                                                                  supports_multiple_types
             (ask_sdk_model.services.list_management.update_list_requestNpdktehistNestres.reminder_management.push_notification
             attribute), 263
                                                                                               attribute), 281
supports_multiple_types
                                                                                  supports_multiple_types
             (ask_sdk_model.services.monetization.error.Error
                                                                                               (ask_sdk_model.services.reminder_management.recurrence.Recu
             attribute), 267
                                                                                                attribute), 282
supports_multiple_types
                                                                                  supports_multiple_types
             (ask\_sdk\_model.services.monetization.in\_skill\_product.InSkiddstroadtketmodel.services.reminder\_management.reminder.Reminder.services.reminder\_management.reminder.Reminder.services.reminder.services.reminder.services.reminder.services.reminder.services.reminder.services.reminder.services.reminder.services.services.reminder.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.services.s
             attribute), 268
                                                                                               attribute), 284
supports_multiple_types
                                                                                  supports_multiple_types
             (ask_sdk_model.services.monetization.in_skill_product_transssktiodk_neopohservi8ksllPnodudetInaassasgeonesResprinsder_create
             attribute), 268
                                                                                               attribute), 284
supports_multiple_types
                                                                                  supports_multiple_types
             (ask_sdk_model.services.monetization.in_skill_products_resposks_edk_kibledoxbrotisRespeoniswder_management.reminder_delete
             attribute), 269
                                                                                               attribute), 285
                                                                                  supports_multiple_types
supports_multiple_types
             (ask_sdk_model.services.monetization.metadata.Metadata (ask_sdk_model.services.reminder_management.reminder_delete
             attribute), 269
                                                                                               attribute), 285
supports_multiple_types
                                                                                  supports_multiple_types
             (ask_sdk_model.services.monetization.result_set.ResultSet (ask_sdk_model.services.reminder_management.reminder_reques
             attribute), 272
                                                                                               attribute), 287
supports_multiple_types
                                                                                  supports_multiple_types
             (ask_sdk_model.services.monetization.transactions.Transactions.sdk_sdk_model.services.reminder_management.reminder_respon
             attribute), 274
                                                                                               attribute), 288
                                                                                  supports_multiple_types
supports_multiple_types
             (ask_sdk_model.services.proactive_events.create_proactive_askntdkequosteCsenvederorativeEventRagesnent.reminder_started
             attribute), 275
                                                                                                attribute), 289
                                                                                  supports_multiple_types
supports_multiple_types
             (ask_sdk_model.services.proactive_events.error.Error
                                                                                               (ask sdk model.services.reminder management.reminder status
             attribute), 275
                                                                                               attribute), 289
supports_multiple_types
                                                                                  supports_multiple_types
             (ask\_sdk\_model.services.proactive\_events.event.Event
                                                                                               (ask_sdk_model.services.reminder_management.reminder_update
             attribute), 275
                                                                                               attribute), 290
supports_multiple_types
                                                                                  supports_multiple_types
             (ask_sdk_model.services.proactive_events.relevant_audienc@aRlelevdkntAadeenseevices.reminder_management.spoken_text.Spo
             attribute), 277
                                                                                               attribute), 290
supports_multiple_types
                                                                                  supports_multiple_types
             (ask_sdk_model.services.reminder_management.alert_info.Aduskt<u>l</u>sulu_model.services.reminder_management.trigger.Trigger
             attribute), 278
                                                                                               attribute), 291
supports_multiple_types
                                                                                  supports_multiple_types
             (ask_sdk_model.services.reminder_management.alert_info_kpxkk_sdkinfoo8phkenlinfes.skill_messaging.error.Error
                                                                                               attribute), 292
             attribute), 278
```

```
307
supports_multiple_types
              (ask_sdk_model.services.skill_messaging.send_skill_ppessagingmreppiesp.SendSkillMessagingRequest
                                                                                                   (ask_sdk_model.ui.link_account_card.LinkAccountCard
             attribute), 293
                                                                                                    attribute), 307
supports_multiple_types
              (ask_sdk_model.services.ups.error.Error
                                                                                     supports_multiple_types
             attribute), 295
                                                                                                   (ask_sdk_model.ui.output_speech.OutputSpeech
supports_multiple_types
                                                                                                   attribute), 308
              (ask_sdk_model.services.ups.phone_number.PhoneNpmberts_multiple_types
              attribute), 296
                                                                                                    (ask_sdk_model.ui.plain_text_output_speech.PlainTextOutputSpe
                                                                                                   attribute), 309
supports_multiple_types
              (ask_sdk_model.session.Session
                                                                   attribute), supports_multiple_types
                                                                                                    (ask_sdk_model.ui.reprompt.Reprompt
                                                                                                                                                                   at-
                                                                                                    tribute), 309
supports_multiple_types
              (ask\_sdk\_model.session\_ended\_error.SessionEndesdEppowrts\_multiple\_types
             attribute), 327
                                                                                                    (ask_sdk_model.ui.simple_card.SimpleCard
supports_multiple_types
                                                                                                    attribute), 310
              (ask_sdk_model.session_ended_request.SessionEnabledRecourtest_multiple_types
                                                                                                    (ask_sdk_model.ui.ssml_output_speech.SsmlOutputSpeech
              attribute), 328
supports_multiple_types
                                                                                                   attribute), 310
              (ask_sdk_model.session_resumed_request.SessionResuprocdRequest_tiple_types
             attribute), 329
                                                                                                   (ask_sdk_model.ui.standard_card.StandardCard
supports_multiple_types
                                                                                                   attribute), 310
              (ask_sdk_model.slot.Slot attribute), 330
                                                                                     supports_multiple_types
supports_multiple_types
                                                                                                   (ask_sdk_model.user.User attribute), 332
              (ask_sdk_model.slu.entityresolution.resolution.Resolutionrts_multiple_types
             attribute), 304
                                                                                                    (ask_smapi_model.v1.bad_request_error.BadRequestError
supports_multiple_types
                                                                                                   attribute), 540
              (ask\_sdk\_model.slu.entityre solution.re solutions. \textit{Resoptions.} \texttt{ts\_multiple\_types}
                                                                                                   (ask_smapi_model.v1.catalog.create_content_upload_url_reques
             attribute), 304
supports_multiple_types
                                                                                                    attribute), 367
              (ask_sdk_model.slu.entityresolution.status.Status supports_multiple_types
             attribute), 304
                                                                                                    (ask_smapi_model.v1.catalog.create_content_upload_url_respon
supports_multiple_types
                                                                                                   attribute), 368
              (ask_sdk_model.slu.entityresolution.value.Value supports_multiple_types
                                                                                                    (ask_smapi_model.v1.catalog.presigned_upload_part_items.Pres
             attribute), 305
supports_multiple_types
                                                                                                   attribute), 368
              (ask_sdk_model.slu.entityresolution.value_wrappen.Value_Wrappmen*ltiple_types
              attribute), 305
                                                                                                   (ask_smapi_model.v1.catalog.upload.catalog_upload_base.Catal
supports_multiple_types
                                                                                                   attribute), 362
              (ask_sdk_model.status.Status
                                                                   attribute), supports_multiple_types
                                                                                                    (ask_smapi_model.v1.catalog.upload.content_upload_file_summe
supports_multiple_types
                                                                                                   attribute), 363
              (ask_sdk_model.supported_interfaces.SupportedInterfaces*ts_multiple_types
             attribute), 331
                                                                                                    (ask_smapi_model.v1.catalog.upload.get_content_upload_respon
supports_multiple_types
                                                                                                   attribute), 364
              (ask_sdk_model.task.Task attribute), 332
                                                                                     supports_multiple_types
                                                                                                    (ask_smapi_model.v1.catalog.upload.location.Location
supports_multiple_types
              (ask_sdk_model.ui.ask_for_permissions_consent_card.AskFonPirmie)sionsConsentCard
             attribute), 306
                                                                                     supports_multiple_types
supports_multiple_types
                                                                                                    (ask_smapi_model.v1.catalog.upload.pre_signed_url.PreSignedU
              (ask_sdk_model.ui.card.Card
                                                                   attribute),
                                                                                                   attribute), 365
                                                                                     supports_multiple_types
supports_multiple_types
                                                                                                    (ask_smapi_model.v1.catalog.upload.pre_signed_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_item.PreSigned_url_i
```

attribute),

attribute), 366

(ask_sdk_model.ui.image.Image

```
supports_multiple_types
                                                     supports_multiple_types
         (ask_smapi_model.v1.catalog.upload.upload_ingestion_step(dsploadlpgestodeEtelpisp.publishing_information.PublishingInfor
                                                              attribute), 386
        attribute), 366
supports_multiple_types
                                                     supports_multiple_types
         (ask_smapi_model.v1.error.Error
                                          attribute),
                                                              (ask_smapi_model.v1.isp.subscription_information.SubscriptionI
                                                              attribute), 388
                                                     supports_multiple_types
supports_multiple_types
         (ask_smapi_model.v1.isp.associated_skill_response.Associatas//SkilhRpiponxtel.v1.isp.summary_marketplace_pricing.Summa
        attribute), 369
                                                              attribute), 389
supports_multiple_types
                                                     supports_multiple_types
         (ask_smapi_model.v1.isp.create_in_skill_product_request.Quextte!ntityll_modul:tHeixpessummary_price_listing.SummaryPriceL
        attribute), 369
                                                              attribute), 389
supports_multiple_types
                                                     supports_multiple_types
        (ask_smapi_model.v1.isp.custom_product_prompts.Custom_RacklustrRmpin_mputsdel.v1.isp.tax_information.TaxInformation
        attribute), 370
                                                              attribute), 390
supports_multiple_types
                                                     supports_multiple_types
        (ask_smapi_model.v1.isp.in_skill_product_definition.InSkill@xkilusentDpefinintodal.v1.isp.update_in_skill_product_request.Updat
        attribute), 379
                                                              attribute), 390
supports_multiple_types
                                                     supports_multiple_types
         (ask_smapi_model.v1.isp.in_skill_product_definition_responashinshidftpmhdaDefihintohRusponseattribute),
        attribute), 379
                                                              540
supports_multiple_types
                                                     supports_multiple_types
         (ask_smapi_model.v1.isp.in_skill_product_summary.InSkillPaoduwt&upiumwyel.v1.links.Links
                                                                                                attribute),
        attribute), 380
supports_multiple_types
                                                     supports_multiple_types
         (ask_smapi_model.v1.isp.in_skill_product_summary_responses!tnShidlpHrodode$whvskiltyRespons_elinking.account_linking_requ
        attribute), 381
                                                              attribute), 393
                                                     supports_multiple_types
supports_multiple_types
        (ask_smapi_model.v1.isp.isp_summary_links.IspSummaryLinksk_smapi_model.v1.skill.account_linking.account_linking_resp
                                                              attribute), 394
        attribute), 381
                                                     supports_multiple_types
supports_multiple_types
         (ask_smapi_model.v1.isp.list_in_skill_product.ListInSkillProduct_smapi_model.v1.skill.alexa_hosted.hosted_skill_info.Hosted
                                                              attribute), 395
        attribute), 382
                                                     supports_multiple_types
supports_multiple_types
         (ask_smapi_model.v1.isp.list_in_skill_product_response.List/insk/sibbRopid.mooRekpdnskill.alexa_hosted.hosted_skill_metadata.H
        attribute), 382
                                                              attribute), 395
supports_multiple_types
                                                     supports_multiple_types
        (ask_smapi_model.v1.isp.localized_privacy_and_compliand@aklocathapilPnivaludyAhrdlGthapdiam_thosted.hosted_skill_permission.
        attribute), 382
                                                              attribute), 396
supports_multiple_types
                                                     supports_multiple_types
         (ask_smapi_model.v1.isp.localized_publishing_information(lask_akinadif_ubhbslelnglnsfathativan_hosted.hosted_skill_repository_
        attribute), 383
                                                              attribute), 397
                                                     supports_multiple_types
supports_multiple_types
        (ask_smapi_model.v1.isp.marketplace_pricing.MarketplaceRiskipspapi_model.v1.skill.alexa_hosted.hosted_skill_repository_
        attribute), 384
                                                              attribute), 397
supports_multiple_types
                                                     supports_multiple_types
        (ask\_smapi\_model.v1.isp.price\_listing.PriceListing
                                                              (ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_repository_
        attribute), 384
                                                              attribute), 398
supports_multiple_types
                                                     supports_multiple_types
         (ask_smapi_model.v1.isp.privacy_and_compliance.PrivacyAnskComptiancedel.v1.skill.alexa_hosted.hosted_skill_repository_
        attribute), 385
                                                              attribute), 398
supports_multiple_types
                                                     supports_multiple_types
        (ask_smapi_model.v1.isp.product_response.ProductRespons@sk_smapi_model.v1.skill.beta_test.beta_test.BetaTest
        attribute), 385
                                                              attribute), 402
```

```
supports_multiple_types
                                                                                                                                                   supports_multiple_types
                        (ask_smapi_model.v1.skill.beta_test.test_body.TestBody
                                                                                                                                                                           (ask_smapi_model.v1.skill.create_skill_with_package_request.Cr
                       attribute), 403
                                                                                                                                                                           attribute), 518
supports_multiple_types
                                                                                                                                                  supports_multiple_types
                        (ask_smapi_model.v1.skill.beta_test.testers.list_testers_resp(anske_kinstfpistensRetsphnkidl.evaluations.dialog_act.DialogAct
                       attribute), 400
                                                                                                                                                                           attribute), 410
supports_multiple_types
                                                                                                                                                  supports_multiple_types
                        (ask_smapi_model.v1.skill.beta_test.testers.tester.Tester
                                                                                                                                                                           (ask_smapi_model.v1.skill.evaluations.intent.Intent
                       attribute), 400
                                                                                                                                                                           attribute), 411
supports_multiple_types
                                                                                                                                                  supports_multiple_types
                        (ask_smapi_model.v1.skill.beta_test.testers.tester_with_detatisk<u>Te</u>sstarWithDebeliiks.skill.evaluations.multi_turn.MultiTurn
                       attribute), 401
                                                                                                                                                                           attribute), 411
                                                                                                                                                  supports_multiple_types
supports_multiple_types
                        (ask\_smapi\_model.v1.skill.beta\_test.testers\_list.Teste(\textit{ust}ki\underline{s}\textit{t} mapi\_model.v1.skill.evaluations.profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.Profile\_nlu\_request.
                                                                                                                                                                           attribute), 412
                       attribute), 401
supports_multiple_types
                                                                                                                                                   supports_multiple_types
                        (ask_smapi_model.v1.skill.build_details.BuildDetails
                                                                                                                                                                           (ask_smapi_model.v1.skill.evaluations.profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_response.Profile_nlu_r
                       attribute), 516
                                                                                                                                                                           attribute), 412
supports_multiple_types
                                                                                                                                                  supports_multiple_types
                        (ask_smapi_model.v1.skill.build_step.BuildStep
                                                                                                                                                                           (ask_smapi_model.v1.skill.evaluations.profile_nlu_selected_inten
                       attribute), 516
                                                                                                                                                                           attribute), 413
supports_multiple_types
                                                                                                                                                   supports_multiple_types
                        (ask_smapi_model.v1.skill.certification.certification_respontallestifapitimalestpdnskill.evaluations.resolutions_per_authority
                       attribute), 404
                                                                                                                                                                           attribute), 414
supports_multiple_types
                                                                                                                                                   supports_multiple_types
                        (ask_smapi_model.v1.skill.certification.certification_result.Caskifsontipn_Resolutl.v1.skill.evaluations.resolutions_per_authority
                       attribute), 404
                                                                                                                                                                           attribute), 414
                                                                                                                                                  supports_multiple_types
supports_multiple_types
                        (ask_smapi_model.v1.skill.certification.certification_summa(xxx established) [established] [establis
                       attribute), 405
                                                                                                                                                                           attribute), 415
supports_multiple_types
                                                                                                                                                   supports_multiple_types
                        (ask_smapi_model.v1.skill.certification.distribution_info.Di&trskusinnpifonodel.v1.skill.evaluations.slot.Slot
                                                                                                                                                                           attribute), 415
                       attribute), 406
supports_multiple_types
                                                                                                                                                  supports_multiple_types
                        (ask_smapi_model.v1.skill.certification.estimation_update. Hstishnostioontlipphondeel.v1.skill.evaluations.slot_resolutions.SlotResol
                                                                                                                                                                           attribute), 416
                       attribute), 406
supports_multiple_types
                                                                                                                                                   supports_multiple_types
                        (ask_smapi_model.v1.skill.certification.list_certifications_re(spsbn_senlajxitGeordficksthasksRessportseresponse.ExportResponse
                       attribute), 407
                                                                                                                                                                           attribute), 519
supports_multiple_types
                                                                                                                                                   supports_multiple_types
                        (ask_smapi_model.v1.skill.certification.publication_failure.RudklismtapiFaibubed.v1.skill.export_response_skill.ExportResponse
                        attribute), 408
                                                                                                                                                                           attribute), 519
supports_multiple_types
                                                                                                                                                  supports_multiple_types
                        (ask_smapi_model.v1.skill.certification.review_tracking_inf@akkvismafpiaghinfellmfd.skill.history.confidence.Confidence
                        attribute), 408
                                                                                                                                                                           attribute), 416
                                                                                                                                                  supports_multiple_types
supports_multiple_types
                        (ask_smapi_model.v1.skill.certification.review_tracking_inf@askinsmapj_BavibelFilaskillglisfoSyndionlogy_act.DialogAct
                       attribute), 409
                                                                                                                                                                           attribute), 417
supports_multiple_types
                                                                                                                                                  supports_multiple_types
                        (ask_smapi_model.v1.skill.create_skill_request.CreateSkillReshapi_model.v1.skill.history.intent.Intent
                       attribute), 517
                                                                                                                                                                           attribute), 418
supports_multiple_types
                                                                                                                                                  supports_multiple_types
                        (ask_smapi_model.v1.skill.create_skill_response.CreateSkill@skpommxpi_model.v1.skill.history.intent_request.IntentRequest
                       attribute), 518
                                                                                                                                                                           attribute), 419
```

```
supports_multiple_types
supports_multiple_types
         (ask_smapi_model.v1.skill.history.intent_requests.IntentReq(assts_smapi_model.v1.skill.interaction_model.catalog_value_supj
                                                               attribute), 434
        attribute), 421
supports_multiple_types
                                                       supports_multiple_types
         (ask_smapi_model.v1.skill.history.slot.Slot
                                                               (ask_smapi_model.v1.skill.interaction_model.dialog.Dialog
        attribute), 422
                                                               attribute), 435
                                                      supports_multiple_types
supports_multiple_types
         (ask_smapi_model.v1.skill.image_attributes.ImageAttributes(ask_smapi_model.v1.skill.interaction_model.dialog_intents.Dial
        attribute), 519
                                                               attribute), 435
supports_multiple_types
                                                      supports_multiple_types
         (ask_smapi_model.v1.skill.image_dimension.ImageDimensi@ask_smapi_model.v1.skill.interaction_model.dialog_intents_proi
        attribute), 520
                                                               attribute), 436
supports_multiple_types
                                                       supports_multiple_types
         (ask_smapi_model.v1.skill.image_size.ImageSize
                                                               (ask_smapi_model.v1.skill.interaction_model.dialog_prompts.Dia
        attribute), 520
                                                               attribute), 436
supports_multiple_types
                                                       supports_multiple_types
         (ask_smapi_model.v1.skill.import_response.ImportRespons&ask_smapi_model.v1.skill.interaction_model.dialog_slot_items.I
         attribute), 521
                                                               attribute), 437
supports_multiple_types
                                                      supports_multiple_types
         (ask_smapi_model.v1.skill.import_response_skill.ImportResponts_sakifi_model.v1.skill.interaction_model.has_entity_resoluti
        attribute), 522
                                                               attribute), 438
supports_multiple_types
                                                       supports_multiple_types
         (ask_smapi_model.v1.skill.instance.Instance
                                                               (ask_smapi_model.v1.skill.interaction_model.intent.Intent
        attribute), 522
                                                               attribute), 438
                                                       supports_multiple_types
supports_multiple_types
         (ask_smapi_model.v1.skill.interaction_model.catalog.catalog<u>ustlef</u>iniaipoin_noodplut.CskillloigtDerfivatiion_Onatplut.interaction_model_
        attribute), 423
                                                               attribute), 439
                                                      supports_multiple_types
supports_multiple_types
         (ask_smapi_model.v1.skill.interaction_model.catalog.catalogsstretinedfit.theliastil.interaction_model.interaction_model.
                                                               attribute), 439
        attribute), 424
                                                       supports_multiple_types
supports_multiple_types
         (ask_smapi_model.v1.skill.interaction_model.catalog.catalog<u>ushppont@pait</u>onboglhlpuh.skill.interaction_model.is_greater_than.IsC
                                                               attribute), 440
        attribute), 424
supports_multiple_types
                                                       supports_multiple_types
         (ask_smapi_model.v1.skill.interaction_model.catalog.catalo<u>gusite.mn@pialogditel.m1</u>.skill.interaction_model.is_greater_than_or
        attribute), 425
                                                               attribute), 440
                                                       supports_multiple_types
supports_multiple_types
         (ask_smapi_model.v1.skill.interaction_model.catalog.catalogs.skespmape_GaddebsgResspillvisaeraction_model.is_in_duration.IsIn
        attribute), 425
                                                               attribute), 441
supports_multiple_types
                                                      supports_multiple_types
         (ask_smapi_model.v1.skill.interaction_model.catalog.catalog<mark>usktasturu@atmlodesturlus</mark>kill.interaction_model.is_in_set.IsInSet
         attribute), 426
                                                               attribute), 441
                                                      supports_multiple_types
supports_multiple_types
         (ask_smapi_model.v1.skill.interaction_model.catalog.definitionsk_dantapDefinoididnDoskill.interaction_model.is_less_than.IsLess
         attribute), 427
                                                               attribute), 442
                                                       supports_multiple_types
supports_multiple_types
         (ask_smapi_model.v1.skill.interaction_model.catalog.last_upakktestneqnientdaestUlpskaleRveterastion_model.is_less_than_or_eq
        attribute), 427
                                                               attribute), 442
supports_multiple_types
                                                      supports_multiple_types
         (ask_smapi_model.v1.skill.interaction_model.catalog.list_cutslo<u>gr</u>maspions@delsvCaskilbigRespotion_model.is_not_in_duration
        attribute), 428
                                                               attribute), 443
supports_multiple_types
                                                      supports_multiple_types
         (ask_smapi_model.v1.skill.interaction_model.catalog.updateaskqswaxtpi/pdatedReduskill.interaction_model.is_not_in_set.IsNot
```

attribute), 443

```
supports_multiple_types
                                                                                                                  supports_multiple_types
                   (ask_smapi_model.v1.skill.interaction_model.language_modaklLasnasapigatNooleekv1.skill.interface_definition.InterfaceDefinition
                                                                                                                                    attribute), 523
                  attribute), 444
supports_multiple_types
                                                                                                                  supports_multiple_types
                   (ask_smapi_model.v1.skill.interaction_model.prompt.Promptask_smapi_model.v1.skill.interface_intent.InterfaceIntent
                  attribute), 444
                                                                                                                                    attribute), 523
supports_multiple_types
                                                                                                                  supports_multiple_types
                   (ask_smapi_model.v1.skill.interaction_model.prompt_items.(Askmptlapin_model.v1.skill.last_update_request.LastUpdateReque
                  attribute), 445
                                                                                                                                     attribute), 524
                                                                                                                  supports_multiple_types
supports_multiple_types
                   (ask_smapi_model.v1.skill.interaction_model.slot_definition(&kktDocylionodel.v1.skill.list_skill_response.ListSkillResponse
                  attribute), 445
                                                                                                                                    attribute), 524
supports_multiple_types
                                                                                                                  supports_multiple_types
                  (ask_smapi_model.v1.skill.interaction_model.slot_type.SlotTypk_smapi_model.v1.skill.manifest.alexa_for_business_apis.Alex
                  attribute), 446
                                                                                                                                    attribute), 449
supports_multiple_types
                                                                                                                  supports_multiple_types
                  (ask_smapi_model.v1.skill.interaction_model.slot_validationaSkotMaliplitimodel.v1.skill.manifest.alexa_for_business_interface
                  attribute), 447
                                                                                                                                    attribute), 450
supports_multiple_types
                                                                                                                  supports_multiple_types
                   (ask_smapi_model.v1.skill.interaction_model.value_catalog(\text{Valkue@apilopodel.v1.skill.manifest.alexa_presentation_apl_inter
                  attribute), 448
                                                                                                                                    attribute), 450
supports_multiple_types
                                                                                                                  supports_multiple_types
                   (ask_smapi_model.v1.skill.interaction_model.value_suppliet@kklu@Bupplinodel.v1.skill.manifest.audio_interface.AudioInterfa
                  attribute), 448
                                                                                                                                    attribute), 450
                                                                                                                  supports_multiple_types
supports_multiple_types
                   (ask_smapi_model.v1.skill.interaction_model.version.catalo<mark>g_skp_dmapC_mddg|</mark>I3pldskill.manifest.connections.Connections
                  attribute), 429
                                                                                                                                    attribute), 451
                                                                                                                  supports_multiple_types
supports_multiple_types
                  (ask_smapi_model.v1.skill.interaction_model.version.catalogaskakms,@atabogeValluskill.manifest.connections_payload.Connec
                  attribute), 429
                                                                                                                                    attribute), 451
supports_multiple_types
                                                                                                                  supports_multiple_types
                   (ask_smapi_model.v1.skill.interaction_model.version.catalo<u>grskersimpid</u>atadehtdlogkNersimiPest&ritical_data_handling.Critic
                                                                                                                                    attribute), 452
                  attribute), 430
supports_multiple_types
                                                                                                                  supports_multiple_types
                   (ask_smapi_model.v1.skill.interaction_model.version.input_(xaskrcsmlapputswordedev1.skill.manifest.custom_apis.CustomApis
                  attribute), 430
                                                                                                                                    attribute), 452
supports_multiple_types
                                                                                                                  supports_multiple_types
                  (ask\_smapi\_model.v1.skill.interaction\_model.version.links. \verb|Linsks\_smapi\_model.v1.skill.manifest.custom\_connections. Custom \verb|Custom| connections. | Custom c
                  attribute), 431
                                                                                                                                    attribute), 453
supports_multiple_types
                                                                                                                  supports_multiple_types
                   (ask_smapi_model.v1.skill.interaction_model.version.list_re(spon_ssalaist]Persplentsel.skill.manifest.custom_interface.CustomInte
                  attribute), 431
                                                                                                                                    attribute), 453
supports_multiple_types
                                                                                                                  supports_multiple_types
                  (ask_smapi_model.v1.skill.interaction_model.version.value_sske_smadfil_modelevnh.skill.manifest.display_interface.DisplayInte
                  attribute), 432
                                                                                                                                    attribute), 454
supports_multiple_types
                                                                                                                  supports_multiple_types
                  (ask_smapi_model.v1.skill.interaction_model.version.value_(swkesmapiumeoWalueEskidhunNaifæst.event_name.EventName
                  attribute), 432
                                                                                                                                    attribute), 462
supports_multiple_types
                                                                                                                  supports_multiple_types
                   (ask_smapi_model.v1.skill.interaction_model.version.versiot<u>a.xkatanYapisi</u>onDeta1.skill.manifest.event_publications.EventPub
                  attribute), 432
                                                                                                                                    attribute), 471
supports_multiple_types
                                                                                                                  supports_multiple_types
                  (ask_smapi_model.v1.skill.interaction_model.version.versionasite;nnasite;nnasite;nnasited.skill.manifest.flash_briefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.FlashBriefing_apis.Fl
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attribute), 472

```
supports_multiple_types
supports_multiple_types
                       (ask_smapi_model.v1.skill.manifest.gadget_controller_interfask_GondpetGontebblerskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskillenskille
                       attribute), 473
                                                                                                                                                                    attribute), 484
supports_multiple_types
                                                                                                                                             supports_multiple_types
                       (ask_smapi_model.v1.skill.manifest.game_engine_interface.(Gislings Engyiin_alluoteerfaces kill.manifest.music_feature.MusicFeature
                       attribute), 474
                                                                                                                                                                    attribute), 484
supports_multiple_types
                                                                                                                                             supports_multiple_types
                       (ask_smapi_model.v1.skill.manifest.health_alias.HealthAlia(ask_smapi_model.v1.skill.manifest.music_interfaces.MusicInterf
                       attribute), 474
                                                                                                                                                                     attribute), 485
                                                                                                                                             supports_multiple_types
supports_multiple_types
                       (ask_smapi_model.v1.skill.manifest.health_apis.HealthApis(ask_smapi_model.v1.skill.manifest.music_request.MusicRequest
                       attribute), 475
                                                                                                                                                                    attribute), 485
supports_multiple_types
                                                                                                                                             supports_multiple_types
                       (ask\_smapi\_model.v1.skill.manifest.health\_interface.Health\\ \textbf{(ask\_smapi\_model.v1.skill.manifest.music\_wordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.MusicWordmark.
                       attribute), 476
                                                                                                                                                                    attribute), 485
                                                                                                                                             supports_multiple_types
supports_multiple_types
                       (ask_smapi_model.v1.skill.manifest.health_request.HealthReapsle_stmapi_model.v1.skill.manifest.permission_items.Permission
                       attribute), 476
                                                                                                                                                                    attribute), 485
supports_multiple_types
                                                                                                                                             supports_multiple_types
                       (ask_smapi_model.v1.skill.manifest.house_hold_list.HouseHaktLismapi_model.v1.skill.manifest.region.Region
                       attribute), 476
                                                                                                                                                                    attribute), 487
supports_multiple_types
                                                                                                                                             supports_multiple_types
                       (ask_smapi_model.v1.skill.manifest.interface.Interface
                                                                                                                                                                    (ask_smapi_model.v1.skill.manifest.request.Request
                       attribute), 478
                                                                                                                                                                    attribute), 487
                                                                                                                                             supports_multiple_types
supports_multiple_types
                       (ask_smapi_model.v1.skill.manifest.lambda_endpoint.Lamb@ask_ndpmaipit_model.v1.skill.manifest.skill_manifest.SkillManifest
                       attribute), 478
                                                                                                                                                                    attribute), 489
                                                                                                                                             supports_multiple_types
supports_multiple_types
                       (ask_smapi_model.v1.skill.manifest.lambda_region.LambdaReskionnapi_model.v1.skill.manifest.skill_manifest_apis.SkillMan
                       attribute), 478
                                                                                                                                                                    attribute), 490
                                                                                                                                             supports_multiple_types
supports_multiple_types
                       (ask_smapi_model.v1.skill.manifest.localized_flash_briefing(<u>aistfo.shaqnilipeddfdusHBskidfingInffe</u>st.skill_manifest_custom_task.S
                                                                                                                                                                    attribute), 490
                       attribute), 479
                                                                                                                                             supports_multiple_types
supports_multiple_types
                       (ask_smapi_model.v1.skill.manifest.localized_flash_briefing(askfosintennis_hnoatellzekl#klakhnBmiefersg.kkfblltemasifest_endpoint.Skill
                                                                                                                                                                    attribute), 491
                       attribute), 480
supports_multiple_types
                                                                                                                                             supports_multiple_types
                       (ask_smapi_model.v1.skill.manifest.localized_health_info.L\ask_ized\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delt
                       attribute), 480
                                                                                                                                                                     attribute), 491
supports_multiple_types
                                                                                                                                             supports_multiple_types
                       (ask_smapi_model.v1.skill.manifest.localized_music_info.L&askizedMpisialodel.v1.skill.manifest.skill_manifest_events.SkillMa
                       attribute), 481
                                                                                                                                                                    attribute), 492
                                                                                                                                             supports_multiple_types
supports_multiple_types
                       (ask_smapi_model.v1.skill.manifest.manifest_gadget_supportasMasnifaptiGundgletlSvdppkill.manifest.skill_manifest_localized_priv
                       attribute), 481
                                                                                                                                                                    attribute), 492
                                                                                                                                             supports_multiple_types
supports_multiple_types
                       (ask_smapi_model.v1.skill.manifest.music_alias.MusicAlias(ask_smapi_model.v1.skill.manifest.skill_manifest_localized_pub
                       attribute), 482
                                                                                                                                                                    attribute), 493
supports_multiple_types
                                                                                                                                             supports_multiple_types
                       (ask_smapi_model.v1.skill.manifest.music_apis.MusicApis (ask_smapi_model.v1.skill.manifest.skill_manifest_privacy_and_u
                       attribute), 483
                                                                                                                                                                    attribute), 494
supports_multiple_types
                                                                                                                                             supports_multiple_types
                       (ask_smapi_model.v1.skill.manifest.music_capability.Music@ask_abiihitpi_model.v1.skill.manifest.skill_manifest_publishing_ing
```

attribute), 496

```
supports_multiple_types
supports_multiple_types
              (ask_smapi_model.v1.skill.manifest.smart_home_apis.Smar(HshnsApisi_model.v1.skill.simulations.device.Device
                                                                                                  attribute), 507
             attribute), 496
supports_multiple_types
                                                                                    supports_multiple_types
              (ask_smapi_model.v1.skill.manifest.up_channel_items.UpChash_eliheupis_model.v1.skill.simulations.input.Input
             attribute), 497
                                                                                                  attribute), 508
supports_multiple_types
                                                                                    supports_multiple_types
              (ask_smapi_model.v1.skill.manifest.video_apis.VideoApis (ask_smapi_model.v1.skill.simulations.invocation_request.Invoca
             attribute), 498
                                                                                                  attribute), 508
                                                                                    supports_multiple_types
supports_multiple_types
              (ask_smapi_model.v1.skill.manifest.video_apis_locale.VideoAskiskmaple_model.v1.skill.simulations.invocation_response.Invoc
             attribute), 499
                                                                                                  attribute), 508
supports_multiple_types
                                                                                    supports_multiple_types
              (ask\_smapi\_model.v1.skill.manifest.video\_app\_interface.Video \verb|Apphareirfn acelev| 1.skill.simulations.metrics.Metrics | 1.skill.simulations.metrics.Metrics.Metrics | 1.skill.simulations.metrics.Metrics.Metrics.Metrics.M
             attribute), 499
                                                                                                  attribute), 509
supports_multiple_types
                                                                                    supports_multiple_types
              (ask_smapi_model.v1.skill.manifest.video_catalog_info.Videackatssbagfinfmodel.v1.skill.simulations.session.Session
             attribute), 499
                                                                                                  attribute), 509
                                                                                    supports_multiple_types
supports_multiple_types
              (ask_smapi_model.v1.skill.manifest.video_country_info.Vid&askousmaylinfaodel.v1.skill.simulations.simulation_result.Simulati
             attribute), 500
                                                                                                  attribute), 510
supports_multiple_types
                                                                                    supports_multiple_types
              (ask_smapi_model.v1.skill.manifest.video_region.VideoRegi(ask_smapi_model.v1.skill.simulations.simulations_api_request.S
             attribute), 500
                                                                                                  attribute), 510
supports_multiple_types
                                                                                    supports_multiple_types
              (ask_smapi_model.v1.skill.manifest.viewport_specification. VieskpsmtSpieoifialation1.skill.simulations.simulations_api_response
             attribute), 502
                                                                                                  attribute), 511
                                                                                    supports_multiple_types
supports_multiple_types
              (ask_smapi_model.v1.skill.metrics.get_metric_data_responsasketMutpicDataRespokisk.skill_interaction_model.SkillInteraction
             attribute), 502
                                                                                                  attribute), 528
supports_multiple_types
                                                                                    supports_multiple_types
              (ask_smapi_model.v1.skill.private.list_private_distribution<u>(asskousntapie_supoolusk:MisstlPthvskitlDiusteilautiiwmnApowodueltsRasupsa6kie</u>lUni
                                                                                                  attribute), 528
             attribute), 505
supports_multiple_types
                                                                                    supports_multiple_types
              (ask_smapi_model.v1.skill.private.private_distribution_acc&ank_Brivate_DistributionkAlcskilht_status.SkillStatus
             attribute), 506
                                                                                                  attribute), 529
                                                                                    supports_multiple_types
supports_multiple_types
              (ask_smapi_model.v1.skill.regional_ssl_certificate.Regional@Ssk_Certifipiateodel.v1.skill.skill_summary.SkillSummary
             attribute), 526
                                                                                                  attribute), 530
supports_multiple_types
                                                                                    supports_multiple_types
              (ask_smapi_model.v1.skill.resource_import_status.Resource(hnpom&npiumodel.v1.skill.ssl_certificate_payload.SSLCertificate
              attribute), 526
                                                                                                  attribute), 531
                                                                                    supports_multiple_types
supports_multiple_types
              (ask_smapi_model.v1.skill.resource_status.ResourceStatus (ask_smapi_model.v1.skill.standardized_error.StandardizedError
              attribute), 527
                                                                                                  attribute), 531
supports_multiple_types
                                                                                    supports_multiple_types
              (ask_smapi_model.v1.skill.simulations.alexa_execution_infaaslexsnExpicuriodbufol.skill.submit_skill_for_certification_request
             attribute), 506
                                                                                                  attribute), 533
supports_multiple_types
                                                                                    supports_multiple_types
              (ask_smapi_model.v1.skill.simulations.alexa_response.Alex@ksksponspi_model.v1.skill.update_skill_with_package_request.U
             attribute), 507
                                                                                                  attribute), 533
supports_multiple_types
                                                                                    supports_multiple_types
```

attribute), 507

(ask_smapi_model.v1.skill.simulations.alexa_response_contantkAsexafiespods&&bxkiltupload_response.UploadResponse

```
supports_multiple_types
                                                                                                                      TaxInformationCategory
                                                                                                                                                                                                        (class
                                                                                                                                                                                                                                    in
                    (ask_smapi_model.v1.skill.validation_details.ValidationDetailk_smapi_model.v1.isp.tax_information_category),
                   attribute), 537
                                                                                                                      {\tt TC}\ (ask\_smapi\_model.v1.isp.distribution\_countries.DistributionCountries
supports_multiple_types
                    (ask_smapi_model.v1.skill.validation_endpoint.ValidationEndpribute), 376
                   attribute), 537
                                                                                                                      TC (ask smapi model.v1.skill.manifest.distribution countries.Distribution
supports_multiple_types
                                                                                                                                          attribute), 461
                    (ask_smapi_model.v1.skill.validation_feature.Validationskesmapi_model.v1.isp.distribution_countries.DistributionCountries
                   attribute), 538
                                                                                                                                          attribute), 376
                                                                                                                      TD (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
supports_multiple_types
                    (ask_smapi_model.v1.skill.validations.response_validation.Retsplomtsee)V446dation
                   attribute), 512
                                                                                                                      TECHNOLOGY (ask_smapi_model.v1.skill.manifest.flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash_briefing_genre.Flash
                                                                                                                                          attribute), 473
supports_multiple_types
                   (ask_smapi_model.v1.skill.validations.validations_tempionequest.VerlidationsApiRequest(class
                   attribute), 513
                                                                                                                                          ask_sdk_model.services.ups.temperature_unit),
supports_multiple_types
                   (ask_smapi_model.v1.skill.validations.validations_tempi_presprentell/sstiduation_salki_thespeniveterfaces.display.template),
                   attribute), 514
                                                                                                                                          201
supports_multiple_types
                                                                                                                      TemplateLoaderException, 28
                    (ask_smapi_model.v1.skill.validations.validations<u>Tæpip</u>tespæsterresalte\tatlidatioptsApiResponseResult
                   attribute), 514
                                                                                                                      TEST (ask_sdk_model.services.monetization.purchase_mode.PurchaseMod
supports_multiple_types
                                                                                                                                          attribute), 272
                    (ask_smapi_model.v1.skill.withdraw_request.Withdrawureguest_Withdraw_i.k. (ask_smapi_model.v1.skill.reason.Reason
                   attribute), 538
                                                                                                                                          attribute), 525
supports_multiple_types
                                                                                                                      TestBody (class in ask_smapi_model.v1.skill.beta_test.test_body),
                    (ask_smapi_model.v1.vendor_management.vendor.Vendor 403
                   attribute), 539
                                                                                                                      Tester (class in ask_smapi_model.v1.skill.beta_test.testers.tester),
supports_multiple_types
                                                                                                                                          400
                   (ask_smapi_model.v1.vendor_management.vendorseletadorsList
                                                                                                                                                                                       (class
                                                                                                                                          ask\_smapi\_model.v1.skill.beta\_test.testers.testers\_list),
                   attribute), 539
SUPPRESSED (ask_smapi_model.v1.isp.status.Status at-
                                                                                                                                          401
                   tribute), 387
                                                                                                                      TesterWithDetails
                                                                                                                                                                                                 (class
                                                                                                                                                                                                                                    in
SUSPENDED (ask_sdk_model.interfaces.amazonpay.model.v1.billing_askresmanit_intoduk.Wilskit_Aspetaentestats.tester_with_details),
                   attribute), 149
SV (ask_smapi_model.v1.isp.distribution_countries.Distribution_tountries.Distribution_mapi_model.v1.skill.manifest.flash_briefing_content_type.Flas
                   attribute), 376
                                                                                                                                          attribute), 472
SV (ask_smapi_model.v1.skill.manifest.distribution_countriExplistributionCountries
                                                                                                                                                                                       (class
                                                                                                                                                                                                                                    in
                   attribute), 461
                                                                                                                                          ask_sdk_model.interfaces.display.text_content),
                                                                                                                                          202
SystemState
                                                                 (class
                                                                                                              in
                   ask_sdk_model.interfaces.system.system_state), TextField
                                                                                                                                                                                     (class
                                                                                                                                                                                                                                    in
                                                                                                                                          ask_sdk_model.interfaces.display.text_field),
SZ (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                                                                                                                      textToHint(ask_sdk_model.interfaces.alexa.presentation.html.transform
                   attribute), 376
SZ (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributioril@oeintli@s
                   attribute), 461
                                                                                                                      textToSpeech (ask_sdk_model.interfaces.alexa.presentation.html.trans)
                                                                                                                                          attribute), 129
                                                                                                                      TF (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                                                                                                                                          attribute), 376
TargetProfile
                                                                                                             in
                                                                    (class
                   ask\_sdk\_model. interfaces. alexa. presentation. aplt. \textit{The seasy program pi_model.} v1. skill. manifest. distribution\_countries. Distribution apply the state of the state 
                                                                                                                                          attribute), 461
                                                                                                                      \verb"TG" (ask\_smapi\_model.v1.isp.distribution\_countries. DistributionCountries")
Task (class in ask_sdk_model.task), 332
                                                                                                                                          attribute), 376
TaxInformation
                                                                                                                      TG (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
                    ask_smapi_model.v1.isp.tax_information),
```

389

```
TH (ask_sdk_model.services.reminder_management.recurrence_day.Remethredix;eDay
                                                        to_dict() (ask_sdk_model.dialog.confirm_slot_directive.ConfirmSlotDi
         attribute), 283
TH (ask_smapi_model.v1.isp.distribution_countries.DistributionCountmiethod), 69
         attribute), 376
                                                        \verb+to_dict()+ (ask\_sdk\_model.dialog.delegate\_directive.DelegateDirective
TH (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributioth@d)untries
                                                        to_dict() (ask_sdk_model.dialog.dynamic_entities_directive.DynamicE
         attribute), 461
TimestampVerifier
                                   (class
                                                   in
                                                                 method), 70
         ask_sdk_webservice_support.verifier), 45
                                                        to_dict() (ask_sdk_model.dialog.elicit_slot_directive.ElicitSlotDirectiv
TJ (ask_smapi_model.v1.isp.distribution_countries.DistributionCountmiethod), 70
                                                        to_dict() (ask_sdk_model.dialog_state.DialogState
         attribute), 376
TJ (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributioth6d)untitles
                                                        to_dict()
         attribute), 461
                                                                             (ask_sdk_model.directive.Directive
TK (ask_smapi_model.v1.isp.distribution_countries.DistributionCounmiethod), 316
         attribute), 376
                                                        to_dict()
                                                                        (ask_sdk_model.er.dynamic.entity.Entity
TK (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributieth6d),ntties
         attribute), 461
                                                        to_dict() (ask_sdk_model.er.dynamic.entity_list_item.EntityListItem
TL (ask_smapi_model.v1.isp.distribution_countries.DistributionCountmiethod), 71
                                                        to_dict() (ask_sdk_model.er.dynamic.entity_value_and_synonyms.Enti
         attribute), 377
TL (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributioth@d)ynt2ies
         attribute), 461
                                                        to_dict() (ask_sdk_model.er.dynamic.update_behavior.UpdateBehavior
TM (ask_smapi_model.v1.isp.distribution_countries.DistributionCountmiethod), 72
                                                        to_dict() (ask_sdk_model.events.skillevents.account_linked_body.Acco
         attribute), 377
TM (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributioth@d)untries
                                                        to_dict() (ask_sdk_model.events.skillevents.account_linked_request.Ac
         attribute), 461
TN (ask_smapi_model.v1.isp.distribution_countries.DistributionCountmiethod), 74
         attribute), 377
                                                        to_dict() (ask_sdk_model.events.skillevents.permission.Permission
TN (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributieth6d)unit*ies
         attribute), 461
                                                        to_dict() (ask_sdk_model.events.skillevents.permission_accepted_requ
TO (ask_smapi_model.v1.isp.distribution_countries.DistributionCountmiethod), 75
         attribute), 377
                                                        to_dict() (ask_sdk_model.events.skillevents.permission_body.Permission
TO (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributieth6d)unitvies
         attribute), 461
                                                        to_dict() (ask_sdk_model.events.skillevents.permission_changed_reque
to_dict()
               (ask_sdk_model.application.Application
                                                                 method), 76
                                                        to_dict() (ask_sdk_model.events.skillevents.proactive_subscription_cha
         method), 311
to_dict() (ask_sdk_model.canfulfill.can_fulfill_intent.CanFulfillInneethod), 76
                                                        to_dict() (ask_sdk_model.events.skillevents.proactive_subscription_cha
         method), 66
to_dict() (ask_sdk_model.canfulfill.can_fulfill_intent_request.Canfulfill]ntent_request
                                                        to_dict() (ask_sdk_model.events.skillevents.proactive_subscription_eve
         method), 66
to_dict() (ask_sdk_model.canfulfill.can_fulfill_intent_values.CanFnelfillbH)tenTValues
                                                        to_dict() (ask_sdk_model.events.skillevents.skill_disabled_request.Skil
         method), 67
to_dict() (ask_sdk_model.canfulfill.can_fulfill_slot.CanFulfillSlotmethod), 78
                                                        to_dict() (ask_sdk_model.events.skillevents.skill_enabled_request.Skill
         method), 67
method), 68
                                                        to_dict() (ask_sdk_model.intent.Intent method), 317
to_dict() (ask_sdk_model.canfulfill.can_understand_slo<u>t_ova</u>triex:tCan Unske ssdk<u>u</u>ndslote Kintuerst_confirmation_status.IntentConfirmatio
         method), 68
                                                                 method), 317
to_dict() (ask_sdk_model.cause.Cause method), 312 to_dict() (ask_sdk_model.intent_request.IntentRequest
to_dict() (ask_sdk_model.connection_completed.ConnectionCompletkdd), 318
         method), 312
                                                        to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl.alexa_prese
to_dict() (ask_sdk_model.context.Context method),
                                                                 method), 79
         313
                                                        to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl.align.Align
to_dict()
             (ask_sdk_model.device.Device method),
                                                                 method), 80
```

to dict() (ask sdk model.dialog.confirm intent directive.ConfirmInthatDirective

to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl.animate_ite

314

- to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl_adrimate) i(ask_rafe_an_odollinAnfimateInterfacesItemRapreseModion.apl.parallel_comethod), 81 method), 98
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl_adriroattel_apk_citik_propheltynAarifnaesdDpac;tydSeoparityn.apl.play_media method), 81 method), 99
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl_adiimate\(\right) \(\left(pskpsdty_AmidalindPrfapers.yalexa.presentation.apl.position.Pomethod), 82 method), 99
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl_animaterl_(trsh_sfdk_mmpdepianty.ffnivexatddFnaprsfsemndriopearpl.render_doc method), 83 method), 100
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl_aidio_trackskuslikt_model.interfaces.alexa.presentation.apl.rendered_d method), 83 method), 100
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl_adito_tptge(ask_model.presentation.apl.rotate_transmethod), 84

 method), 101
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl_deartforusskovikambdelleimFofauxGahrnanplesentation.apl.runtime.Run method), 84 method), 101
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl.adrinatra(n)d.(Gskm.ndkn_dmodel.interfaces.alexa.presentation.apl.scale_transmethod), 86 method), 102
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl_abinponentation.apl.scroll_commethod), 87 method), 102
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl_adinponentaskatsdk_amphaleint&nfaces.alexa.presentation.apl.scroll_to_in method), 87 method), 103
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl_coinpronentasksistlk_model.interfaces.alexa.presentation.apl_coinpronentasksistlk_model.interfaces.alexa.presentation.apl_coinpronentasksistlk_model.interfaces.alexa.presentation.apl_coinpronentasksistlk_model.interfaces.alexa.presentation.apl_coinpronentasksistlk_model.interfaces.alexa.presentation.apl_coinpronentasksistlk_model.interfaces.alexa.presentation.apl_coinpronentasksistlk_model.interfaces.alexa.presentation.apl_coinpronentasksistlk_model.interfaces.alexa.presentation.apl_coinpronentasksistlk_model.interfaces.alexa.presentation.apl_coinpronentasksistlk_model.interfaces.alexa.presentation.apl_coinpronentasksistlk_model.interfaces.alexa.presentation.apl_coinpronentasksistlk_model.interfaces.alexa.presentation.apl_coinpronentasksistlk_model.interfaces.alexa.presentation.apl_coinpronentasksistlk_model.interfaces.alexa.presentation.apl_coinpronentasksistlk_model.interfaces.alexa.presentas
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl_componentaskisiklk_model.interfaces.alexa.presentation.apl_componentaskisiklk_model.interfaces.alexa.presentation.apl_componentaskisiklk_model.interfaces.alexa.presentation.apl_componentaskisiklk_model.interfaces.alexa.presentation.apl_componentaskisiklk_model.interfaces.alexa.presentation.apl_componentaskisiklk_model.interfaces.alexa.presentation.apl_componentaskisiklk_model.interfaces.alexa.presentation.apl_componentaskisiklk_model.interfaces.alexa.presentation.apl_componentaskisiklk_model.interfaces.alexa.presentation.apl_componentaskisiklk_model.interfaces.alexa.presentation.apl_componentaskisiklk_model.interfaces.alexa.presentation.apl_componentaskisiklk_model.interfaces.alexa.presentation.apl_componentaskisiklk_model.interfaces.alexa.presentation.apl_componentaskisiklk_model.interfaces.alexa.presentation.apl_componentaskisiklk_model.interfaces.alexa.presentation.apl_componentaskisiklk_model.interfaces.alexa.presentaskisiklk_mod
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl_coinponentasksistlk_modelrivenerfiste_sagleCarppesenttNioibleQusStrfaenIsist method), 89

 method), 106
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl_abinponen(askisibilk_modelrinenerfacebaalkaga@onsponentioNisibileOnspageerd
 method), 90
 method), 107
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl_adinponentatiks.idk_model.interfaces.alexa.presentation.apl_adinponentatiks.idk_model.interfaces.alexa.presentation.apl_adinponentatiks.idk_model.interfaces.alexa.presentation.apl_adinponentatiks.idk_model.interfaces.alexa.presentation.apl_adinponentatiks.idk_model.interfaces.alexa.presentation.apl_adinponentatiks.idk
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.tapl_abinponpn(askisishdk_modedrivenerfacesralexaGrengennarioWixiplesOn_Scolexen_k method), 108
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl_componentsisklk_modedrivene_faces.labdxatpgeComptonentsiskleheQm&nsy method), 92 method), 109
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl.coinponentaskisistik_modedrivenerfaces.labdeatpgesdirtatiion.aphspealorinponentation.aphspealorinponentation), 110
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl_adinponentatises.talk_model.interfaces.alexa.presentation.apl_adinponentatises.talk_model.interfaces.alexa.presentation.apl_adinponentatises.talk_model.interfaces.alexa.presentation.apl_adinponentatises.talk_model.interfaces.alexa.presentation.apl_adinponentatises.talk_model.interfaces.alexa.presentation.apl_adinponentatises.talk_model.interfaces.alexa.presentation.apl_adinponentatises.talk_model.interfaces.alexa.presentation.apl_adinponentatises.talk_model.interfaces.alexa.presentation.apl_adinponentatises.talk_model.interfaces.alexa.presentation.apl_adinponentatises.talka.production.apl_adinponentatises.talka.
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl_abinponentaskisiklk_model.interfaces.alexa.presentation.apl_abinponentaskisiklk_model.interfaces.alexa.presentation.apl_abinponentaskisiklk_model.interfaces.alexa.presentation.apl_abinponentaskisiklk_model.interfaces.alexa.presentation.apl_abinponentaskisiklk_model.interfaces.alexa.presentation.apl_abinponentaskisiklk_model.interfaces.alexa.presentation.apl_abinponentaskisiklk_model.interfaces.alexa.presentation.apl_abinponentaskisiklk_model.interfaces.alexa.presentation.apl_abinponentaskisiklk_model.interfaces.alexa.presentation.apl_abinponentaskisiklk_model.interfaces.alexa.presentation.apl_abinponentaskisiklk_model.interfaces.alexa.presentation.apl_abinponentaskisiklk_model.interfaces.alexa.presentation.apl_abinponentaskisiklk_model.interfaces.alexa.presentation.apl_abinponentaskisiklk_model.interfaces.alexa.presentation.apl_abinponentaskisiklk_model.interfaces.alexa.presentaskisiklk_model.i
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.tapl_cointrol(_makka_sdkn_model.interfackAs_adva_capmexendation.apl.user_event. method), 94 method), 112
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.tapl_exictite()c(mskn_codks_rdioxbethivedEfacestaConneporalsiDitiontiapl.video_source method), 95

 method), 112
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl_idlec_to/ny/naskl_kdle@conderlaimderfaces.alexa.presentation.aplt.auto_page_method), 96

 method), 114
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.\tapl_middit_(c)\tapla_madlktypped\text{WeditaCofmorexanlEkyppresentation.aplt.command.} method), 96 method), 115
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.\text{upl_rtion}\text{vpl_str_nsd_propedtel.Mtentfaces.alexa.presentation.aplt.execute_comethod), 116
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.apl_apen_tur)_(ask_msdk_drivellint&faces.alexa.presentation.aplt.idle_commethod), 97

 method), 116

- to_dict() (ask_sdk_model.interfaces.alexa.presentation.taplt.piaratlleh_(ask_makkd_iPartell.itConfumesndmazonpay.model.request.provide method), 117 method), 135
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.aplt.position.Raski_sdk_model.interfaces.amazonpay.model.request.provide method), 117 method), 135
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.aplt_deinder(\)d(ask_model\)ienRefalesDonanunntD\)irnotdek.request.seller_b
 method), 118
 method), 136
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.aplt_duntime)Runkinsdk_model.interfaces.amazonpay.model.request.seller_amethod), 118 method), 137
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.aplt.sciroll_conaskusdls_crallebintenfues.amazonpay.model.response.authormethod), 119

 method), 139
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.aplt.seindt_e(v)e(ask_osabka_amadaSehiahFenfatEsnammaxahpay.model.response.author method), 120 method), 140
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.aplt_sequentialastorndkamdaskequintaifdCammandonpay.model.response.billing method), 122 method), 141
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.aplt_set_page_(ask_usdk_uhsedPageExfauns.madhazonpay.model.response.destina method), 122 method), 142
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.aplt.seitcta(i)e(axkmsdkn_dh&deVahteGanes.amdzonpay.model.response.price.leanthod), 123 method), 142
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.aplt.cairget(prafile_TalkgetPadeflienterfaces.amazonpay.model.response.release method), 123 method), 143
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.aplt_disert_e(v)entisks_extEv_emodel.interfaces.amazonpay.model.response.state.S method), 124 method), 143
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.htmladexa_ipresentation
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.html&configuratish.Gdhnfigoulationerfaces.amazonpay.model.v1.authorization method), 125 method), 146
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.htm<u>l</u>diantle)_naska_gdk_dinodtikenHafalleMaskagelDirectiondel.v1.authorize_at method), 126 method), 147
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.htmldnextage_(mokuwdk_MeoslageiReaftests.amazonpay.model.v1.billing_agree method), 126 method), 147
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.html&interfaces.amazonpay.model.v1.billing_agree method), 127 method), 148
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.htmlcstart_tljr@askv_es8ka_mtDihelctinterfaces.amazonpay.model.v1.billing_agree method), 128 method), 149
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.htmlcstart_requeskt_Stlk_tReagled.sinterfaces.amazonpay.model.v1.billing_agree method), 128 method), 149
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.htmlcstart_requesk_sdkt_hndcsthinRenfauessMnthmahpay.model.v1.destination.l method), 128 method), 150
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.htmldtiaatsf0)r(werkT_xdksfmmdel.interfaces.amazonpay.model.v1.payment_act method), 129 method), 151
- to_dict() (ask_sdk_model.interfaces.alexa.presentation.htmldtiantsformæsk_tsplk_Tmanksformæsftyges.amazonpay.model.v1.price.Price method), 129 method), 151
- to_dict() (ask_sdk_model.interfaces.amazonpay.model.request.anthor(ask_astlkib_ntosle\u00e4\u00fcithtorface\u00e4\u00fcithtorface\u00e4\u00fcithtorface\u00e4\u00fcithtorface\u00e4\u00fcithtorface\u00e4\u00e4\u00fcithtorface\u00e4\u00e4\u00fcithtorface\u00e4\
- to_dict() (ask_sdk_model.interfaces.amazonpay.model.tequesi.bitse)_dnndz_codkpmyo_deltinyt&dseAsmannom&npEynthydel.v1.provider_cre method), 132 method), 152
- to_dict() (ask_sdk_model.interfaces.amazonpay.model.tequest.btll(ng(ask_ento_delribtatefaBillingAgrapayentAdloibulteslease_envi method), 133 method), 152
- to_dict() (ask_sdk_model.interfaces.amazonpay.model.tequest.bill(ng(ask_ento_tleplainBellfagesgareamentflypenodel.v1.seller_billing method), 133 method), 153
- to_dict() (ask_sdk_model.interfaces.amazonpay.model.tequesi.pty/ne/utslacstibn_tPaybeleintt*eficees.amazonpay.model.v1.seller_order_method), 134 method), 154
- to_dict() (ask_sdk_model.interfaces.amazonpay.model.tequest.ptice).Raiske_sdk_model.interfaces.amazonpay.model.v1.state.State method), 134 method), 154

- to_dict() (ask_sdk_model.interfaces.amazonpay.requestcdnargec_trnproject.inhanfgec&smandinfidyReqplasyback_stopped_recomethod), 155

 method), 171
- to_dict() (ask_sdk_model.interfaces.amazonpay.requestsetupianaxo(naskasdkequosheSentupfanaxamRlixfskaytessplayer_activity.Player method), 156 method), 171
- to_dict() (ask_sdk_model.interfaces.amazonpay.responsecamcizon_(pa(a.ekr_odkrespdnsenAamfarcosPanydlimplaRespsonpedirective.StopDimethod), 157

 method), 171
- to_dict() (ask_sdk_model.interfaces.amazonpay.responsechaigetamagok_madd.GheunguarmandinPolyuResulteam.Stream method), 158 method), 172
- to_dict() (ask_sdk_model.interfaces.amazonpay.responsesetipe_turbayaanskpoolkressalleSetuprfmæsomPaynRetsiuet.automotive_state.Automethod), 158

 method), 173
- to_dict() (ask_sdk_model.interfaces.amazonpay.v1.amazon_opiny_te(n)o(naskespokasmAnhed.interfaces.connections_request.comethod), 181

 method), 181
- to_dict() (ask_sdk_model.interfaces.amazonpay.v1.charge_ariazon) plansk_lsdkgariantarfaces.connections.connections_response method), 160 method), 182
- to_dict() (ask_sdk_model.interfaces.amazonpay.v1.charge_ariazon)paskrexdkt_fihdegeAtungaonPayRusultons.connections_status.Comethod), 160 method), 183
- to_dict() (ask_sdk_model.interfaces.amazonpay.v1.setup<u>amazon_(payaSkt_upolk_mapdePin</u>sterfaces.connections.entities.base_entity.Be method), 161 method), 174
- to_dict() (ask_sdk_model.interfaces.amazonpay.v1.setup_<u>camiazon_(p)a(ask_sulk_SetupAlmiatxonfuPcesResnHe</u>ctions.entities.postal_addres method), 162 method), 174
- to_dict() (ask_sdk_model.interfaces.audioplayer.audio_titem:Audio());e(nsk_sdk_model.interfaces.connections.entities.restaurant.Remethod), 162 method), 175
- to_dict() (ask_sdk_model.interfaces.audioplayer.audio_titemd_inetatlut(asku_sidkl_temtMel.interfaces.connections.requests.base_requests method), 163 method), 176
- to_dict() (ask_sdk_model.interfaces.audioplayer.audio_tplay&i_intenfaces.connections.requests.print_image_method), 163

 method), 177
- to_dict() (ask_sdk_model.interfaces.audioplayer.audio_tptayeri_cstate). AuskioftlksymsMaleinterfaces.connections.requests.print_pdf_reamethod), 164

 method), 177
- to_dict() (ask_sdk_model.interfaces.audioplayer.caption_data_Caption_data_kdk_model.interfaces.connections.requests.print_web_pmethod), 164

 method), 178
- to_dict() (ask_sdk_model.interfaces.audioplayer.caption_dypeiCuptionds.pesdk_model.interfaces.connections.requests.schedule_foomethod), 165

 method), 179
- to_dict() (ask_sdk_model.interfaces.audioplayer.clear_behaviox:Cle
- to_dict() (ask_sdk_model.interfaces.audioplayer.clear_queuei_directivasRleadkQuaudeDiratetifaces.connections.send_request_directivemethod), 165

 method), 183
- to_dict() (ask_sdk_model.interfaces.audioplayer.current_oplayback(st(atsk_mableshintskStates.connections.send_response_direct method), 166 method), 184
- to_dict() (ask_sdk_model.interfaces.audioplayer.error.Error_dict() (ask_sdk_model.interfaces.connections.v1.start_connection_amethod), 166 method), 180
- to_dict() (ask_sdk_model.interfaces.audioplayer.error_type_dError_Type_ask_sdk_model.interfaces.custom_interface_controller.endpomethod), 166 method), 184
- to_dict() (ask_sdk_model.interfaces.audioplayer.play_bebaydor.PlayBelsky.interfaces.custom_interface_controller.event. method), 167 method), 185
- to_dict() (ask_sdk_model.interfaces.audioplayer.play_directiviexPlayDirsdc_iselk_model.interfaces.custom_interface_controller.event_method), 167

 method), 186
- to_dict() (ask_sdk_model.interfaces.audioplayer.playback_fdiledt_te)q(uest._BldkyhnoklFhihedeRfeuquesstustom_interface_controller.event. method), 168 method), 186
- to_dict() (ask_sdk_model.interfaces.audioplayer.playbatck_fibiisbred_)reqske_stdklaryboakel.Fintes/fiedd&equuetstm_interface_controller.expirate method), 169

 method), 187
- to_dict() (ask_sdk_model.interfaces.audioplayer.playback_n&irdy_ffin(slskd_sdkq_nextl#llinytenfikd/esanlyfimi_shedeRfeuque_stontroller.expiredict), 169

 method), 188
- to_dict() (ask_sdk_model.interfaces.audioplayer.playback_stairted_nethod), 170 method), 188

- to_dict() (ask_sdk_model.interfaces.custom_interface_controller.hendasH_sadke_model.interfaces.display.text_field.TextField method), 188

 method), 203
- to_dict() (ask_sdk_model.interfaces.custom_interface_controllertsendadkrexdkvenditektinterfandDiraktiste_Diractillert.set_light_directillertsendadkrexdkvenditektinterfandDiraktiste_Diractillert.set_light_directillertsendadkrexdkvenditektinterfandDiraktiste_Diractillert.set_light_directillertsendadkrexdkvenditektinterfandDiraktiste_Diractillert.set_light_directillertsendadkrexdkvenditektinterfandDiraktiste_Diractillert.set_light_directillertsendadkrexdkvenditektinterfandDiraktiste_Diractillert.set_light_directillertsendadkrexdkvenditektinterfandDiraktiste_Diractillert.set_light_directillertsendadkrexdkvenditektinterfandDiraktiste_Diractillert.set_light_directillertsendadkrexdkvenditektinterfandDiraktiste_Diractillert.set_light_directillertsendadkrexdkvenditektinterfandDiractillert.set_light_directillertsendadkrexdkvendadkre
- to_dict() (ask_sdk_model.interfaces.custom_interface_controllertstart(askenstlkhanddled.idterfaisesStamEvengtheniddlenDirectalver_event method), 190 method), 205
- to_dict() (ask_sdk_model.interfaces.custom_interface_&controllertstop(askentdkamolderl.idirexftivesSgopnFaventglandslemDineptivehandler_method), 190 method), 205
- to_dict() (ask_sdk_model.interfaces.display.back_button_be@tavionBackskustdh_Bachdelionterfaces.game_engine.stop_input_handler_ method), 191

 method), 206

 to dict() (ask_sdk_model.interfaces.display.back_button_be@tavionBackskustdh_model.interfaces.game_engine.stop_input_handler_
- to_dict() (ask_sdk_model.interfaces.display.body_template_ldRodyTemplatesldk_model.interfaces.geolocation.access.Access method), 191 method), 206
- to_dict() (ask_sdk_model.interfaces.display.body_template_2dBady_Template_2dk_model.interfaces.geolocation.altitude.Altitude method), 192 method), 207
- to_dict() (ask_sdk_model.interfaces.display.body_template_33Bady_Template_83lk_model.interfaces.geolocation.coordinate.Coordinate method), 193 method), 207
- to_dict() (ask_sdk_model.interfaces.display.body_temphate6BadyTemphate6tk_model.interfaces.geolocation.geolocation_interface method), 193 method), 208
- to_dict() (ask_sdk_model.interfaces.display.body_temphate7cBadyTemphate@dk_model.interfaces.geolocation.geolocation_state.Geo method), 194

 method), 208

 to_dict() (ask_sdk_model.interfaces.display.display.intprfacesiDirplay(bythytemplatic) transferences.geolocation.geolocation_state.Geo
- to_dict() (ask_sdk_model.interfaces.display.display_interfaceril@isplay(Inste_fdke_model.interfaces.geolocation.heading.Heading method), 194 method), 209

 $exttt{to_dict()}$ (ask_sdk_model.interfaces.display.display_stateDisplayStateaDisplayStateable and el.interfaces.geolocation.location_services.Loc

- method), 195

 method), 209

 to dict() (ask sdk model interfaces display element setented i regulact dispendint Splads bibliographs secologation speed Speed
- to_dict() (ask_sdk_model.interfaces.display.element_seteoted_ireques(dskensethtSaladekdtReafaxsts.geolocation.speed.Speed method), 195 method), 210
- to_dict() (ask_sdk_model.interfaces.display.hint.Hint to_dict() (ask_sdk_model.interfaces.geolocation.status.Status method), 196 method), 210
- to_dict() (ask_sdk_model.interfaces.display.hint_directive_HintDirective_sdk_model.interfaces.messaging.message_received_requested), 196

 method), 196

 method), 211
- to_dict() (ask_sdk_model.interfaces.display.image.Imageo_dict() (ask_sdk_model.interfaces.monetization.v1.in_skill_product.I method), 197 method), 212
- to_dict() (ask_sdk_model.interfaces.display.image_instance_dimage(Instancesdk_model.interfaces.monetization.v1.purchase_result.F method), 197 method), 212
- to_dict() (ask_sdk_model.interfaces.display.image_sizetImage\(\siz\) (ask_sdk_model.interfaces.navigation.assistance.announce_n method), 198 method), 213
- to_dict() (ask_sdk_model.interfaces.display.list_item.Listdtentict() (ask_sdk_model.interfaces.navigation.navigation_interface.Navigation), 198 method), 213
- to_dict() (ask_sdk_model.interfaces.display.list_templated_LdsitTemplatesk_sdk_model.interfaces.playbackcontroller.next_command method), 199 method), 214
- to_dict() (ask_sdk_model.interfaces.display.list_template2_IdxitEemplate8_sdk_model.interfaces.playbackcontroller.pause_commar method), 199 method), 215
- to_dict() (ask_sdk_model.interfaces.display.plain_text.RlainText+() (ask_sdk_model.interfaces.playbackcontroller.play_commana method), 200 method), 215
- to_dict() (ask_sdk_model.interfaces.display.plain_text_bint_&hainText(diskt_sdk_model.interfaces.playbackcontroller.previous_commented), 200 method), 216
- to_dict() (ask_sdk_model.interfaces.display.render_temphatelidirect)vakendkr_Temphateixesystem.error.Error method), 200 method), 216
- to_dict() (ask_sdk_model.interfaces.display.rich_text.Rtcb_Text_ct() (ask_sdk_model.interfaces.system.error_cause.ErrorCause method), 201 method), 217
- to_dict() (ask_sdk_model.interfaces.display.template.Templatect() (ask_sdk_model.interfaces.system.error_type.ErrorType method), 202 method), 217
- to_dict() (ask_sdk_model.interfaces.display.text_content.TextCortent(ask_sdk_model.interfaces.system.exception_encountered_red_method), 202

 method), 218

```
to_dict() (ask_sdk_model.interfaces.system.system_state_Systemstate(ask_sdk_model.launch_request.LaunchRequest
              method), 218
                                                                                                  method), 319
to_dict() (ask_sdk_model.interfaces.tasks.complete_task_adir&ctive(Complete_task_Ddelaterenission_status.PermissionStatus
             method), 219
                                                                                                  method), 319
to_dict() (ask_sdk_model.interfaces.videoapp.launch_directivedtaunch_Qiskc_sidk_model.permissions.Permissions
             method), 220
                                                                                                  method), 320
to_dict() (ask_sdk_model.interfaces.videoapp.metadatatMetadlata()
                                                                                                         (ask_sdk_model.person.Person method),
             method), 220
to_dict() (ask_sdk_model.interfaces.videoapp.video_app<u>oin</u>terfacet, Videosk_ppllatenfaked.request.Request method),
              method), 220
                                                                                                  324
to_dict() (ask_sdk_model.interfaces.videoapp.video_item\(\frac{Videodtetn}{ideottetn}\) (ask_sdk_model.request_envelope.RequestEnvelope
             method), 221
                                                                                                  method), 324
to_dict() (ask_sdk_model.interfaces.viewport.apl.curreratocodifiguration.Curreask_onthymatlehresponse.Response
             method), 222
                                                                                                  method), 325
to_dict() (ask_sdk_model.interfaces.viewport.apl.viewport_ctingigurationk_Vidw_pnotdebnfispoonsionenvelope.ResponseEnvelope
              method), 222
                                                                                                  method), 325
to_dict() (ask_sdk_model.interfaces.viewport.apl_viewport_dtatet.A.P.I.(viewpokt_Strateel.scope.Scope method), 326
                                                                                    to_dict() (ask_sdk_model.services.device_address.address.Address
             method), 227
to_dict() (ask_sdk_model.interfaces.viewport.aplt.character_format/lihd);acterFormat
             method), 223
                                                                                    to_dict() (ask_sdk_model.services.device_address.error.Error
to_dict() (ask_sdk_model.interfaces.viewport.aplt.inter_segment.lntahSelpn2n5
                                                                                    \verb+to_dict() (ask\_sdk\_model.services.device\_address.short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short\_address.Short
             method), 223
to_dict() (ask_sdk_model.interfaces.viewport.aplt.viewport_profibeactions)@2fF5rofile
                                                                                    to_dict() (ask_sdk_model.services.directive.directive.Directive
             method), 223
to_dict() (ask_sdk_model.interfaces.viewport.aplt_viewport_statem\text{PlAMiens}fortState
              method), 228
                                                                                    to_dict() (ask_sdk_model.services.directive.error.Error
to_dict() (ask_sdk_model.interfaces.viewport.experience.Experiemcethod), 237
             method), 228
                                                                                    to_dict() (ask_sdk_model.services.directive.header.Header
to_dict() (ask_sdk_model.interfaces.viewport.keyboard.Keyboardmethod), 237
             method), 229
                                                                                    to_dict() (ask_sdk_model.services.directive.send_directive_request.Ser
to_dict() (ask_sdk_model.interfaces.viewport.mode.Mode
                                                                                                  method), 237
              method), 229
                                                                                    to_dict() (ask_sdk_model.services.directive.speak_directive.SpeakDire
to_dict() (ask_sdk_model.interfaces.viewport.presentation_type.Proceedingials Type
                                                                                    to_dict() (ask_sdk_model.services.endpoint_enumeration.endpoint_cap
              method), 229
to_dict() (ask_sdk_model.interfaces.viewport.shape.Shape
                                                                                                  method), 238
                                                                                    to_dict() (ask_sdk_model.services.endpoint_enumeration.endpoint_enu
             method), 230
to_dict() (ask_sdk_model.interfaces.viewport.size.continuous_viempthod\(\text{ize} 39 ontinuous \text{ViewportSize}\)
                                                                                    to_dict() (ask_sdk_model.services.endpoint_enumeration.endpoint_inf
             method), 224
to_dict() (ask_sdk_model.interfaces.viewport.size.discrete_viewportsize
                                                                                    to_dict() (ask_sdk_model.services.endpoint_enumeration.error.Error
             method), 225
to_dict() (ask_sdk_model.interfaces.viewport.size.viewport_size.Viewtpod)$22\delta0
             method), 225
                                                                                    to_dict() (ask_sdk_model.services.gadget_controller.animation_step.A.
to_dict() (ask_sdk_model.interfaces.viewport.touch.Touch
                                                                                                  method), 241
             method), 230
                                                                                    to_dict() (ask_sdk_model.services.gadget_controller.light_animation.L
to_dict() (ask_sdk_model.interfaces.viewport.typed_viewport_statueThpedJNten2portState
                                                                                    to_dict() (ask_sdk_model.services.gadget_controller.set_light_parameter)
              method), 231
to_dict() (ask_sdk_model.interfaces.viewport.video.codecs.Codeanethod), 242
                                                                                    to_dict() (ask_sdk_model.services.gadget_controller.trigger_event_typ
to_dict() (ask_sdk_model.interfaces.viewport.viewport_state.ViewpothStt\te243
             method), 232
                                                                                    to_dict() (ask_sdk_model.services.game_engine.deviation_recognizer.l
to_dict() (ask_sdk_model.interfaces.viewport.viewport_state_videneVhabel), 243
                                                                                    to_dict() (ask_sdk_model.services.game_engine.event.Event
to_dict() (ask_sdk_model.interfaces.viewport.viewport_video.ViewpohtVi)e044
             method), 232
                                                                                    to_dict() (ask_sdk_model.services.game_engine.event_reporting_type...
```

- method), 244 method), 261
- to_dict() (ask_sdk_model.services.game_engine.input_eventsInputEventsk_sdk_model.services.list_management.status.Status method), 245 method), 262
- to_dict() (ask_sdk_model.services.game_engine.input_eventdiaction)_(ypsk_Inplkt_EventdAstividEpsplist_management.update_list_item_interval), 245 method), 262
- to_dict() (ask_sdk_model.services.game_engine.input_handlercevent(Inplustdkn_ndhedElvrentvices.list_management.update_list_request method), 246 method), 263
- to_dict() (ask_sdk_model.services.game_engine.patternt_Rattrinct() (ask_sdk_model.services.lwa.access_token_request.AccessToken_nethod), 246 method), 264
- to_dict() (ask_sdk_model.services.game_engine.patternt_vecognize(x)P(utskr_nslkc_ongodze.services.lwa.access_token_response.AccessT method), 247 method), 264
- to_dict() (ask_sdk_model.services.game_engine.patternt_oecoignizer)_andlusk_tylke_thatkelnsRevingsilverAevoloouHypor method), 248 method), 265
- to_dict() (ask_sdk_model.services.game_engine.progressorediagraiservices.monetization.entitled_state.Entitledsmethod), 248

 method), 266
- to_dict() (ask_sdk_model.services.game_engine.recognizer_Racognizer_Racognizer_sdk_model.services.monetization.entitlement_reason.En
 method), 249
 method), 266
- to_dict() (ask_sdk_model.services.list_management.alex@_list_Alex@_listk_sdk_model.services.monetization.error.Error method), 250 method), 267
- method), 250
 to_dict() (ask_sdk_model.services.list_management.alexo_list_citem)AlaskaLsiskLtemodel.services.monetization.in_skill_product.InSkill_method), 250
 method), 268
- to_dict() (ask_sdk_model.services.list_management.alexao_list_areta)d(atsk_letka_bistdletxedviaes.monetization.in_skill_product_transmethod), 251 method), 268
- to_dict() (ask_sdk_model.services.list_management.alexa_lists_tm@tallash_Allk_ahindsMsenadaes.monetization.in_skill_products_resp method), 251 method), 269
- to_dict() (ask_sdk_model.services.list_management.create_list_cite(n)_(wesh_westlk_mathelList_heimRemponentization.metadata.Metadata method), 252 method), 269
- method), 252
 to_dict() (ask_sdk_model.services.list_management.create_list_creqive(sts&redte_lnixtd&eloperstices.monetization.product_type.ProductI method), 252

 method), 271
- to_dict() (ask_sdk_model.services.list_management.errorEndorct() (ask_sdk_model.services.monetization.purchasable_state.Purmethod), 253 method), 272
- to_dict() (ask_sdk_model.services.list_management.forbiddeni_etr(); Fashiddkn_Fivodel.services.monetization.purchase_mode.Purchase_method), 253

 method), 272

 to_dict() (ask_sdk_model.services.list_management.linksd_inksct() (ask_sdk_model.services.monetization.result_set.ResultSet
- method), 253
 method), 273

 † o dict () (ask sdk model services list management list bodyldstrødgisk sdk model services monetization status Status
- to_dict() (ask_sdk_model.services.list_management.list<u>bod</u>yilastRodqusk_sdk_model.services.monetization.status.Status method), 254 method), 273
- to_dict() (ask_sdk_model.services.list_management.list<u>credted_tever(n.ske.guds_t.hixdelrsetvitlesentReqirestion.</u>transactions.Transacti method), 254

 method), 274
- to_dict() (ask_sdk_model.services.list_management.list_deletied_teventaskeqstels_thistDeleterdEexeptRacquiest_events.create_proactive_e method), 255

 method), 275
- to_dict() (ask_sdk_model.services.list_management.list_item_ibody.LixtHem_Blody.odel.services.proactive_events.error.Error method), 255 method), 275
- to_dict() (ask_sdk_model.services.list_management.list_ivern_istate_Liathern&katenodel.services.proactive_events.event.Event method), 256 method), 276
- method), 256
 method), 276
 to_dict() (ask_sdk_model.services.list_management.list_itemsi_cre(ite(h.slv_endk_repubsi_slastItems;CoeatevlE_venetRequbsi_ant_audience.
- method), 277

 to_dict() (ask_sdk_model.services.list_management.list_itemsi_delete(a_stv_esdk_requist_list_titems_Delatist_vertifitsquets*tant_audience_method), 277

 method), 277
- to_dict() (ask_sdk_model.services.list_management.listt_itemsi_apdit(dskvsdk_raqdestskistltesnst\deltapdtitad_leventRs\dilb_iilb_stage.SkillStamethod), 258

 method), 277
- to_dict() (ask_sdk_model.services.list_management.list<u>_state_listState</u>_ask_sdk_model.services.reminder_management.alert_info.Alemethod), 261 method), 278
- to_dict() (ask_sdk_model.services.list_management.listt_npdbitedt_ev)e(utskeqdksnladtll.pelatiadEvrentRalprestanagement.alert_info_si

```
method), 278
                                                                                             method), 295
to\_dict() (ask_sdk_model.services.reminder_managementertor(ask_sdk_model.services.ups.phone_number.PhoneNumber
             method), 279
                                                                                             method), 296
to_dict() (ask_sdk_model.services.reminder_managemento_event_Event(ask_sdk_model.services.ups.temperature_unit.TemperatureU
             method), 279
                                                                                             method), 296
to_dict() (ask_sdk_model.services.reminder_managementogetirem(nde(askespdh<u>s</u>en&kelRensindesResimmsmethod),
             method), 280
to_dict() (ask_sdk_model.services.reminder_managemenogetirem(n)dansk_redbomendelesResnindensRedspeoner.SessionEndedError
             method), 281
                                                                                             method), 327
to_dict() (ask_sdk_model.services.reminder_managementopushontsfi(askondRushoNtellifeasion_ended_error_type.SessionEndedErro
             method), 281
                                                                                             method), 327
to_dict() (ask_sdk_model.services.reminder_managementopushondificantiondeltatualPlusesNintificantiondStretusen.SessionEndedReason
             method), 281
                                                                                             method), 328
to_dict() (ask_sdk_model.services.reminder_managemento<u>re</u>dicret()e(Rek<u>usdkn</u>geodel.session_ended_request.SessionEndedReques
             method), 282
                                                                                             method), 328
to_dict() (ask_sdk_model.services.reminder_management<u>r</u>ediurren()e(alsky.Rek_umredek.Desyion_resumed_request.SessionResumedRe
             method), 283
                                                                                             method), 329
to_dict() (ask_sdk_model.services.reminder_managemento_rediutrent)e (fiskq_Rthcumadadesflots) to method), 330
                                                                                to_dict() (ask_sdk_model.slot_confirmation_status.SlotConfirmationSt
             method), 283
to_dict() (ask_sdk_model.services.reminder_management.reminderellendinder)
             method), 284
                                                                                to_dict() (ask_sdk_model.slu.entityresolution.resolution.Resolution
to\_dict() (ask_sdk_model.services.reminder_management.remindmetmodified0event_request.ReminderCreatedEventRequest
                                                                                to_dict() (ask_sdk_model.slu.entityresolution.resolutions.Resolutions
             method), 284
to dict() (ask sdk model.services.reminder management.reminderethele)ed0&vent.ReminderDeletedEvent
             method), 285
                                                                                to_dict() (ask_sdk_model.slu.entityresolution.status.Status
to_dict() (ask_sdk_model.services.reminder_management.remindmetheld);ed_event_request.ReminderDeletedEventRequest
                                                                                to_dict() (ask_sdk_model.slu.entityresolution.status_code.StatusCode
             method), 285
to_dict() (ask_sdk_model.services.reminder_management.reminderrethad);sstKeminderRequest
                                                                                to_dict() (ask_sdk_model.slu.entityresolution.value.Value
             method), 287
to_dict() (ask_sdk_model.services.reminder_management.reminder_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_transporter_tra
             method), 288
                                                                                to_dict() (ask_sdk_model.slu.entityresolution.value_wrapper.ValueWra
to_dict() (ask_sdk_model.services.reminder_management.remindmetstant);@@vent_request.ReminderStartedEventRequest
             method), 289
                                                                                to_dict() (ask_sdk_model.status.Status method), 330
to_dict() (ask_sdk_model.services.reminder_managements<u>re</u>dninder(<u>)</u>.stansh<u>s.s</u>dh<u>ampelk_lenepporteche</u>enttRefaniasl&n&ptusEdhamepefdEexent.
             method), 289
                                                                                             method), 331
to_dict() (ask_sdk_model.services.reminder_managements_remininder_) updktesdke mentlehetqusksTastominetleord)pd&tedEventRequest
             method), 290
                                                                                to_dict() (ask_sdk_model.ui.ask_for_permissions_consent_card.AskFo
to_dict() (ask_sdk_model.services.reminder_management.spoken<u>m</u>textalpokenfext
                                                                                to_dict() (ask_sdk_model.ui.card.Card method), 307
             method), 290
method), 291
to_dict() (ask_sdk_model.services.reminder_managementstrigger.Triggesk_sdk_model.ui.link_account_card.LinkAccountCard
             method), 291
                                                                                             method), 307
to_dict() (ask_sdk_model.services.reminder_manageme<u>notrögget_typ@Iki.gglkrTupd</u>el.ui.output_speech.OutputSpeech
             method), 292
                                                                                             method), 308
to_dict() (ask_sdk_model.services.skill_messaging.errot.E<u>rrot.</u>ct() (ask_sdk_model.ui.plain_text_output_speech.PlainTextOutpu
             method), 292
                                                                                             method), 309
to_dict() (ask_sdk_model.services.skill_messaging.send_skill_varsspagingk_rathuentoSehdtSkilldM_dxshqiniqRetpudSehavior
             method), 293
                                                                                              method), 309
to_dict() (ask_sdk_model.services.ups.distance_units.Distance\buits)
                                                                                                         (ask_sdk_model.ui.reprompt.Reprompt
             method), 294
                                                                                             method), 309
to_dict()
                      (ask_sdk_model.services.ups.error.Error to_dict() (ask_sdk_model.ui.simple_card.SimpleCard
             method), 295
                                                                                             method), 310
to\_dict() (ask_sdk_model.services.ups.error_code.Error_codeict() (ask_sdk_model.ui.ssml_output_speech.SsmlOutputSpeech
```

```
method), 310
                                                                                                                                                                         to_dict() (ask_smapi_model.v1.isp.in_skill_product_definition.InSkillP
to_dict() (ask_sdk_model.ui.standard_card.StandardCard
                                                                                                                                                                                                      method), 379
                                                                                                                                                                         to_dict() (ask_smapi_model.v1.isp.in_skill_product_definition_respons
                           method), 310
to_dict() (ask_sdk_model.user.User method), 332
                                                                                                                                                                                                     method), 379
to_dict() (ask_sdk_model_runtime.lwa.access_token_request.Acces}Taksh_Rnqupistmodel.v1.isp.in_skill_product_summary.InSkillPr
                                                                                                                                                                                                     method), 380
to_dict() (ask_sdk_model_runtime.lwa.access_token_response.Arcdes.Liskesthespionsedel.v1.isp.in_skill_product_summary_respons
                           method), 56
                                                                                                                                                                                                     method), 381
to_dict()
                                             (ask_sdk_model_runtime.lwa.error.Error to_dict() (ask_smapi_model.v1.isp.isp_summary_links.IspSummaryLin
                            method), 57
                                                                                                                                                                                                     method), 381
\verb|to_dict()| (ask\_smapi\_model.v1.bad\_request\_error.BadRequestEtrop)| (ask\_smapi\_model.v1.isp.list\_in\_skill\_product.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkillProduct.ListInSkil
                           method), 540
                                                                                                                                                                                                      method), 382
to_dict() (ask_smapi_model.v1.catalog.create_content_tuplodid_ctrl_)requilests@mpit_mantenflippldiast_lirl_estroduct_response.Listi
                                                                                                                                                                                                      method), 382
                           method), 367
to_dict() (ask_smapi_model.v1.catalog.create_content_tuplodid_ctrl_)resplonsm@reatacdentehitiploadlibedRespionuxy_and_compliance
                           method), 368
                                                                                                                                                                                                     method), 382
to_dict() (ask_smapi_model.v1.catalog.presigned_uplotado_pàita_ttems.(#skesismagoliUpokoduelRah:tikperhoxcalized_publishing_information.L
                                                                                                                                                                                                     method), 383
                           method), 368
to_dict() (ask_smapi_model.v1.catalog.upload.catalog_tuplodid_bdsp.(askalsnylhpilondBelsv1.isp.marketplace_pricing.MarketplaceP
                           method), 362
                                                                                                                                                                                                     method), 384
to_dict() (ask_smapi_model.v1.catalog.upload.content_tuploatd_file)s(ankusmya@onmendelploadfijheRaenlinting,PriceListing
                           method), 363
                                                                                                                                                                                                     method), 384
to_dict() (ask_smapi_model.v1.catalog.upload.file_upload_status.Fileusploadspatussodel.v1.isp.privacy_and_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_compliance.PrivacyAnd_comp
                           method), 363
                                                                                                                                                                                                     method), 385
to_dict() (ask_smapi_model.v1.catalog.upload.get_content_diplotad)reaplorsme.GpitGurdehtUpikpaplikekpun_sesponse.ProductResponse
                           method), 364
                                                                                                                                                                                                     method), 385
to_dict() (ask_smapi_model.v1.catalog.upload.ingestion_<u>sta</u>tus:IngestiuskStatupi_model.v1.isp.product_type.ProductType
                           method), 364
                                                                                                                                                                                                     method), 386
to_dict() (ask_smapi_model.v1.catalog.upload.ingestion_ostepi_name.laskstsmustephladaekv1.isp.publishing_information.Publishinga
                                                                                                                                                                                                     method), 386
                           method), 364
to\_dict() (ask_smapi_model.v1.catalog.upload.locationtLocationt() (ask_smapi_model.v1.isp.purchasable_state.PurchasableState
                           method), 365
                                                                                                                                                                                                     method), 387
to_dict() (ask_smapi_model.v1.catalog.upload.pre_signed_wrl.Pre\( \) ignedUt\( \) task_smapi_model.v1.isp.stage.Stage
                                                                                                                                                                                                      method), 387
                           method), 365
to_dict() (ask_smapi_model.v1.catalog.upload.pre_signed_wrl_citety).PreSignedUshlupin_model.v1.isp.status.Status
                           method), 366
                                                                                                                                                                                                     method), 387
to_dict() (ask_smapi_model.v1.catalog.upload.upload_tngestiont_step(dsplesadpigestodeEtelpisp.subscription_information.Subscript
                           method), 366
                                                                                                                                                                                                     method), 388
to_dict() (ask_smapi_model.v1.catalog.upload.upload_<u>statu</u>s.iUpload&tskusmapi_model.v1.isp.subscription_payment_frequency.Su
                                                                                                                                                                                                     method), 388
                           method), 367
to_dict() (ask_smapi_model.v1.error.Error method), to_dict() (ask_smapi_model.v1.isp.summary_marketplace_pricing.Sum
                                                                                                                                                                                                      method), 389
to_dict() (ask_smapi_model.v1.isp.associated_skill_response.AssocjateslSkilhRpipmxeel.v1.isp.summary_price_listing.SummaryPr
                           method), 369
                                                                                                                                                                                                     method), 389
to_dict() (ask_smapi_model.v1.isp.create_in_skill_product_decaptest)QuesttestnEkpillproduct.tHeispoettx_information.TaxInformation
                                                                                                                                                                                                     method), 390
                           method), 369
\verb|to_dict()| (ask\_smapi\_model.v1.isp.currency.Currency | \verb|to_dict()| (ask\_smapi\_model.v1.isp.tax\_information\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxInformation\_category.TaxIn
                                                                                                                                                                                                     method), 390
to_dict() (ask_smapi_model.v1.isp.custom_product_proveptsCCastomRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRawklusnRaw
                           method), 370
                                                                                                                                                                                                     method), 390
to_dict() (ask_smapi_model.v1.isp.distribution_countrieso_Distribution(coskntsinapi_model.v1.link.Link method),
                           method), 377
```

to_dict() (ask_smapi_model.v1.isp.editable_state.Editable<u>S</u>tatect() (ask_smapi_model.v1.links.Links method),

541

method), 378

- to_dict() (ask_smapi_model.v1.skill.account_linking.access_dtoken(_sclussh_esnypei_AnoeksTokeshSlelhandelTyspep_name.BuildStepName method), 391 method), 517
- to_dict() (ask_smapi_model.v1.skill.account_linking.account_ilinking(askquestapicomoddlinkishgReapreistication.certification_response method), 393 method), 404
- to_dict() (ask_smapi_model.v1.skill.account_linking.account_ilirtking(askpsmsspiAanodalIvihkkillRespificstion.certification_result.Comethod), 394

 method), 404
- to_dict() (ask_smapi_model.v1.skill.account_linking.account_ilirtking(ask_eshvapiumbitklingTskipl.certification.certification_status.C method), 394 method), 405
- to_dict() (ask_smapi_model.v1.skill.action.Action to_dict() (ask_smapi_model.v1.skill.certification.certification_summar_method), 515 method), 405
- to_dict() (ask_smapi_model.v1.skill.agreement_type.Agreement_type.Agreement_type.(ask_smapi_model.v1.skill.certification.distribution_info.Dist method), 516 method), 406
- to_dict() (ask_smapi_model.v1.skill.alexa_hosted.hosted_oskill_intfo).HassledShilplinfanodel.v1.skill.certification.estimation_update.Es method), 395 method), 406
- to_dict() (ask_smapi_model.v1.skill.alexa_hosted.hosted_oskill_ortetod(atsk_HontepiShih)Netrallaskill.certification.list_certifications_res_ method), 395 method), 407
- to_dict() (ask_smapi_model.v1.skill.alexa_hosted.hosted_oskill_opennikaidm_shluspedskilldlerhiskillnertification.publication_failure.Pamethod), 396

 method), 408
- to_dict() (ask_smapi_model.v1.skill.alexa_hosted.hosted_oskdll_opennitsiden_smapis_iHodteddSkilkHexmisisfionStatuseview_tracking_info.

 method), 408
- to_dict() (ask_smapi_model.v1.skill.alexa_hosted.hosted_oskill_opennii{saidm_stypppiHmxtddSkillsRaihnisstificTiypen.review_tracking_info_method), 396 method), 409
- to_dict() (ask_smapi_model.v1.skill.alexa_hosted.hosted_oskill_arep@sitasty_HovatpilShillRepdsikithycreate_skill_request.CreateSkillRemethod), 397

 method), 517
- to_dict() (ask_smapi_model.v1.skill.alexa_hosted.hosted_oskill_orepositosk_smadein_tinulsldlosteskSlkiblRaposskillyCorplansiaCsreateSkillF method), 397

 method), 518
- to_dict() (ask_smapi_model.v1.skill.alexa_hosted.hosted_oskill_arep@sitasty_smaqrin_inalsl_elistlHkkilleclSkilleRspids_itoitylCpedkangal_sleipnes method), 398 method), 518
- to_dict() (ask_smapi_model.v1.skill.alexa_hosted.hosted_oskill_arep()si(orky_smedein_trialsl_elev)luskilHoxaled\(Skiillh\)RaposfitomyGoedestaials_Remethod), 398

 method), 410
- to_dict() (ask_smapi_model.v1.skill.alexa_hosted.hosted_oskill_crep()si(osk_sinfapii_asted@kvillRkiplo.sivaty.infons.dialog_act.DialogAct method), 398 method), 410 to_dict() (ask_smapi_model.v1.skill.alexa_hosted.hosted_oskill_crun(t)m(asH_osted@killRkidnlivdeskill.evaluations.dialog_act_type.Dialo
- method), 399 method), 410
 to_dict() (ask_smapi_model.v1.skill.beta_test.beta
- method), 402 method), 411
- to_dict() (ask_smapi_model.v1.skill.beta_test.status.Status_dict() (ask_smapi_model.v1.skill.evaluations.multi_turn.MultiTurn method), 403 method), 411
- to_dict() (ask_smapi_model.v1.skill.beta_test.test_bodytRestBiody() (ask_smapi_model.v1.skill.evaluations.profile_nlu_request.Primethod), 403 method), 412
- to_dict() (ask_smapi_model.v1.skill.beta_test.testers.intitation_statu(daskitsmaps_tatadel.v1.skill.evaluations.profile_nlu_response.lead), 399

 method), 412
- to_dict() (ask_smapi_model.v1.skill.beta_test.testers.list_desters_tresp(anske_kinstFis_terxRedsphnkill.evaluations.profile_nlu_selected_i method), 400 method), 413
- method), 400

 to_dict() (ask_smapi_model.v1.skill.beta_test.testers.te
- to_dict() (ask_smapi_model.v1.skill.beta_test.testers.tester_with_details!.skill.evaluations.resolutions_per_authorough), 401 method), 414
- to_dict() (ask_smapi_model.v1.skill.beta_test.testers.testers.testers_dlist_ff(s)te(asklis_tmapi_model.v1.skill.evaluations.resolutions_per_authorough), 401 method), 414
- to_dict() (ask_smapi_model.v1.skill.build_details.BuildDetailsct() (ask_smapi_model.v1.skill.evaluations.resolutions_per_authormethod), 516

 method), 415

 to_dict() (ask_smapi_model.v1.skill.build_stap_PuildStap_dict() (ask_smapi_model.v1.skill.evaluations_slet_Slet_)
- to_dict() (ask_smapi_model.v1.skill.build_step.BuildStepo_dict() (ask_smapi_model.v1.skill.evaluations.slot.Slot method), 517 method), 415

- to_dict() (ask_smapi_model.v1.skill.evaluations.slot_rexedutionstSlotResso_latinospsi_model.v1.skill.interaction_model.catalog.catalog method), 416 method), 425
- to_dict() (ask_smapi_model.v1.skill.export_response.ExportResponse(ask_smapi_model.v1.skill.interaction_model.catalog.catalog method), 519 method), 425
- to_dict() (ask_smapi_model.v1.skill.export_response_skill.ExportRespankseSkillpi_model.v1.skill.interaction_model.catalog.catalog method), 519 method), 426
- to_dict() (ask_smapi_model.v1.skill.history.confidence.Confidence() (ask_smapi_model.v1.skill.interaction_model.catalog.catalog method), 416 method), 426
- to_dict() (ask_smapi_model.v1.skill.history.confidence_tbin_Gonfidencesmapi_model.v1.skill.interaction_model.catalog.definition_method), 417 method), 427
- to_dict() (ask_smapi_model.v1.skill.history.dialog_act.DialogAct() (ask_smapi_model.v1.skill.interaction_model.catalog.last_up method), 417 method), 427
- to_dict() (ask_smapi_model.v1.skill.history.dialog_act_tname.DialogAasNasmapi_model.v1.skill.interaction_model.catalog.list_cat method), 418 method), 428
- to_dict() (ask_smapi_model.v1.skill.history.intent.Intento_dict() (ask_smapi_model.v1.skill.interaction_model.catalog.update_method), 418 method), 428
- to_dict() (ask_smapi_model.v1.skill.history.intent_confiden@ibin.(IntenstComfialein_anBabel.v1.skill.interaction_model.catalog_value_method), 419

 method), 434
- to_dict() (ask_smapi_model.v1.skill.history.intent_requ**ext_In**tentRequestk_smapi_model.v1.skill.interaction_model.delegation_stra method), 419 method), 434
- to_dict() (ask_smapi_model.v1.skill.history.intent_request_locades(IntenskRequest_mocalesv1.skill.interaction_model.dialog.Dialog method), 420 method), 435
- to_dict() (ask_smapi_model.v1.skill.history.intent_requests_httentReq(assks_smapi_model.v1.skill.interaction_model.dialog_intents.html
 method), 421

 method), 435
- to_dict() (ask_smapi_model.v1.skill.history.interaction_type_Interdicti(ask_ypenapi_model.v1.skill.interaction_model.dialog_intents_method), 421 method), 436
- to_dict() (ask_smapi_model.v1.skill.history.locale_in_querydiocale_in@akrymapi_model.v1.skill.interaction_model.dialog_prompts method), 421 method), 436
- to_dict() (ask_smapi_model.v1.skill.history.publication_states.Public(atskn_States_model.v1.skill.interaction_model.dialog_slot_iten method), 422 method), 437
- to_dict() (ask_smapi_model.v1.skill.history.slot.Slot to_dict() (ask_smapi_model.v1.skill.interaction_model.has_entity_resomethod), 422

 method), 438

 to_dict() (ask_smapi_model.v1.skill.history.sort_field_fire_interact_to(ask_smapi_model.v1.skill.history.sort_field_fire_inter
- to_dict() (ask_smapi_model.v1.skill.history.sort_field_foro_indent_requask_tsppesSio_ntFideld_ForshiblninRerpuesioFnypeodel.intent.Intent method), 422 method), 438
- to_dict() (ask_smapi_model.v1.skill.image_attributes.Image_Attributes.Imag
- to_dict() (ask_smapi_model.v1.skill.image_dimension.ImageDimension_model.v1.skill.interaction_model.interaction_model.interaction_model.interaction_model.v1.skill.interaction_model.v1
- to_dict() (ask_smapi_model.v1.skill.image_size.ImageStze_dict() (ask_smapi_model.v1.skill.interaction_model.is_greater_than method), 520 method), 440
- to_dict() (ask_smapi_model.v1.skill.image_size_unit.Image_SizeUtn(t) (ask_smapi_model.v1.skill.interaction_model.is_greater_than method), 521 method), 440
- to_dict() (ask_smapi_model.v1.skill.import_response.IntportResponse(ask_smapi_model.v1.skill.interaction_model.is_in_duration.

 method), 521

 method), 441
- to_dict() (ask_smapi_model.v1.skill.import_response_skidl_laiportR
- to_dict() (ask_smapi_model.v1.skill.instance.Instance to_dict() (ask_smapi_model.v1.skill.interaction_model.is_less_than.Isl
 method), 522

 method), 442
- to_dict() (ask_smapi_model.v1.skill.interaction_model.cataloga
- to_dict() (ask_smapi_model.v1.skill.interaction_model.cotaldogacatalogaskntstnya@atalogaskntstnyawa.
- to_dict() (ask_smapi_model.v1.skill.interaction_model.catal@gartalogushysmtapitanloglelpult.skill.interaction_model.is_not_in_set.Is method), 424 method), 443

- to_dict() (ask_smapi_model.v1.skill.interaction_model.tangaiaget_modakl_angaiaget_modaklangaiaget_mo
- to_dict() (ask_smapi_model.v1.skill.interaction_model.prompt.Promptask_smapi_model.v1.skill.manifest.connections_payload.Commethod), 444

 method), 451
- to_dict() (ask_smapi_model.v1.skill.interaction_model.prompt_cite(n)s.(Arsburgptlapin_smodel.v1.skill.manifest.critical_data_handling.C method), 445 method), 452
- to_dict() (ask_smapi_model.v1.skill.interaction_model.prompt_cite(n)s_(trspke_sPrrapip*thedesTsypeskill.manifest.custom_apis.CustomApis method), 445 method), 452
- to_dict() (ask_smapi_model.v1.skill.interaction_model.<u>slot_diefirit(\partition(\partition(\partition)), 453</u>

 method), 445

 method), 453
- to_dict() (ask_smapi_model.v1.skill.interaction_model.xlot_dypetSlotTupk_smapi_model.v1.skill.manifest.custom_interface.Custom_method), 446 method), 453
- to_dict() (ask_smapi_model.v1.skill.interaction_model.xlot_didatio(aSkot\$\nliplintimadel.v1.skill.manifest.data_protection_provider method), 447 method), 453
- to_dict() (ask_smapi_model.v1.skill.interaction_model.vadueicatalog(Wskus@apilogodel.v1.skill.manifest.display_interface.Display method), 448 method), 454
- to_dict() (ask_smapi_model.v1.skill.interaction_model.valueisapplietAkkluaBapplietAkkluaBapplietakkl
- to_dict() (ask_smapi_model.v1.skill.interaction_model.version_cataloguskpdatapt_analogUspdskill.manifest.display_interface_templa method), 429 method), 455
- to_dict() (ask_smapi_model.v1.skill.interaction_model.version.cattaloguskalsms.pGatabaleValluskill.manifest.distribution_countries.Di method), 429 method), 462
- to_dict() (ask_smapi_model.v1.skill.interaction_model.version_wat(4)oguskersianpidatadehtdlagNersianiPestalistribution_mode.Distribution_method), 430

 method), 462
- to_dict() (ask_smapi_model.v1.skill.interaction_model.version.cirp(v)_(xxxkr_cxnlapintbloodedev1.skill.manifest.event_name.EventName method), 430 method), 462
- to_dict() (ask_smapi_model.v1.skill.interaction_model.versioniditaks,Kinsks_smapi_model.v1.skill.manifest.event_name_type.EventN method), 431 method), 471
- to_dict() (ask_smapi_model.v1.skill.interaction_model.versionidist()re(sprekn_sentainst Recupiel.sel.skill.manifest.event_publications.Event method), 431 method), 471
- to_dict() (ask_smapi_model.v1.skill.interaction_model.tersion_oraltie_(scske_ismodpil_un&dkernli.skill.manifest.flash_briefing_apis.Flash_method), 432

 method), 472
- to_dict() (ask_smapi_model.v1.skill.interaction_model.versioni.cval(ue_coskersmapi_meoVdelueEskilhanNnifest.flash_briefing_content_tymethod), 432 method), 472
- to_dict() (ask_smapi_model.v1.skill.interaction_model.versionicver
- to_dict() (ask_smapi_model.v1.skill.interaction_model.versionicversionusike_innov/pir_sinovdtedmsd.skill.manifest.flash_briefing_update_free_method), 433 method), 473
- to_dict() (ask_smapi_model.v1.skill.interface_definition:_bnterface_Definitkossmapi_model.v1.skill.manifest.gadget_controller_interface_method), 523 method), 473
- to_dict() (ask_smapi_model.v1.skill.interface_intent.Interface_intent) (ask_smapi_model.v1.skill.manifest.gadget_support.GadgetState(t)) (ask_smapi_model.v1.skill.manifest.gadget_state(t)) (ask_smapi_
- to_dict() (ask_smapi_model.v1.skill.last_update_request.dastLpdateReshuesnapi_model.v1.skill.manifest.game_engine_interface.C method), 524 method), 474
- to_dict() (ask_smapi_model.v1.skill.list_skill_response.tistSkillRetp(nsk_smapi_model.v1.skill.manifest.health_alias.HealthAlias method), 524 method), 474
- to_dict() (ask_smapi_model.v1.skill.manifest.alexa_for_tms:thesst_apisaskexallapBusintestsApiskill.manifest.health_apis.HealthApis method), 449 method), 475
- to_dict() (ask_smapi_model.v1.skill.manifest.alexa_for_tbusitiess_interfacesAlapi_fnodukink.skihltemfanifest.health_interface.HealthInterface), 476

 method), 476
- to_dict() (ask_smapi_model.v1.skill.manifest.alexa_pre\(\text{presentationst_apl_insterfacepAlmonPolesenskillomAplfesterfaceh_protocol_version.} \)

 method), 476
- to_dict() (ask_smapi_model.v1.skill.manifest.audio_interface:AutdioInterface:A

- to_dict() (ask_smapi_model.v1.skill.manifest.house_hold_olistiHouseHabil_ismapi_model.v1.skill.manifest.skill_manifest_envelope.S method), 477 method), 491
- to_dict() (ask_smapi_model.v1.skill.manifest.interface.lnterface.lnterfacet() (ask_smapi_model.v1.skill.manifest.skill_manifest_events.Ski method), 478 method), 492
- to_dict() (ask_smapi_model.v1.skill.manifest.lambda_endpointdtatmb(lask_ndpoint_model.v1.skill.manifest.skill_manifest_localized_method), 478 method), 492
- to_dict() (ask_smapi_model.v1.skill.manifest.lambda_regionel.ambda@regionel.ambda
- to_dict() (ask_smapi_model.v1.skill.manifest.localized_tlasltbody.g(astfoshaqnilizeddtdushBrkidfingInffest.skill_manifest_privacy_a method), 479 method), 494
- to_dict() (ask_smapi_model.v1.skill.manifest.localized_tda<u>sht</u>briteftng(<u>askfosintempis_hoodellizedlFklillsmBniefersg.kkfblltemas</u>nifest_publishing method), 480 method), 496
- to_dict() (ask_smapi_model.v1.skill.manifest.localized_www.sixi_intfd,Loakiz.edlMpisimbofel.v1.skill.manifest.smart_home_protocol.Sn method), 481 method), 496
- to_dict() (ask_smapi_model.v1.skill.manifest.manifest_godgat_stupp)o(tasklasnifapti_modelsvippkill.manifest.ssl_certificate_type.SSLC method), 481 method), 497
 to_dict() (ask_smapi_model.v1.skill.manifest.music_alitxoMaisicAl(as(ask_smapi_model.v1.skill.manifest.up_channel_items.UpCha
- method), 482

 method), 497

 to dict() (ask smani model vI skill manifest music apiscMasiacApis (ask smani model vI skill manifest version Version)
- to_dict() (ask_smapi_model.v1.skill.manifest.music_aptsdM_rdsicApts) (ask_smapi_model.v1.skill.manifest.version.Version method), 483 method), 498
- to_dict() (ask_smapi_model.v1.skill.manifest.music_capability.Music Caspabinitpi_model.v1.skill.manifest.video_apis.VideoApis method), 483 method), 498
- to_dict() (ask_smapi_model.v1.skill.manifest.music_contentdname(M(uskContentlNamdel.v1.skill.manifest.video_apis_locale.VideoAmethod), 483

 method), 498

 to_dict() (ask_smapi_model.v1.skill.manifest.music_contentdname(M(uskContentlNamdel.v1.skill.manifest.video_apis_locale.VideoAmethod), 499
- to_dict() (ask_smapi_model.v1.skill.manifest.music_contentdtype.MukiusContentiTypedel.v1.skill.manifest.video_app_interface.Video_method), 484 method), 499
- to_dict() (ask_smapi_model.v1.skill.manifest.music_feature_MusicFeature_smapi_model.v1.skill.manifest.video_catalog_info.Video_method), 484 method), 499
- to_dict() (ask_smapi_model.v1.skill.manifest.music_interfaces.Music[nskrfsneespi_model.v1.skill.manifest.video_country_info.Video_method), 485 method), 500
- to_dict() (ask_smapi_model.v1.skill.manifest.music_requestdMusic(Re(quelstsmapi_model.v1.skill.manifest.video_region.VideoRegionmethod), 485 method), 500
- to_dict() (ask_smapi_model.v1.skill.manifest.music_wordsmarkaMusic(Wskrdsmarki_model.v1.skill.manifest.viewport_mode.Viewport_method), 485 method), 501
- to_dict() (ask_smapi_model.v1.skill.manifest.permission_citedniscRetmixsikn_ltampsi_model.v1.skill.manifest.viewport_shape.Viewport_method), 486 method), 501
- to_dict() (ask_smapi_model.v1.skill.manifest.permission_onariecRe(m)(sask_nshampi_model.v1.skill.manifest.viewport_specification.Viewport_nshampi_model.v1.skill.manifest.viewport_specification.Viewport_nshampi_model.v1.skill.manifest.viewport_specification.Viewport_nshampi_model.v1.skill.manifest.viewport_specification.Viewport_nshampi_model.v1.skill.manifest.viewport_specification.Viewp
- method), 487

 method), 502

 to dict() (ask smani model vI skill manifest request Régnesti ct() (ask smani model vI skill metrics metric Metric
- to_dict() (ask_smapi_model.v1.skill.manifest.request.Requestict() (ask_smapi_model.v1.skill.metrics.metric.Metric method), 488 method), 503
- $\texttt{to_dict()} \ (ask_smapi_model.v1.skill.manifest.request_ntome_\textit{Rieqtte\$t}) Nassle_smapi_model.v1.skill.metrics.period.Period.method), 488 \\ method), 503$
- to_dict() (ask_smapi_model.v1.skill.manifest.skill_manifest_SkillManifest_smapi_model.v1.skill.metrics.skill_type.SkillType method), 489 method), 504
- method), 489 method), 504
 to_dict() (ask_smapi_model.v1.skill.manifest.skill_manifest_dipist_Skill_MkkniferatAipistnodel.v1.skill.metrics.stage_for_metric.StageFor
- method), 490

 to_dict() (ask_smapi_model.v1.skill.manifest.skill_manifest_ciustom)_(assk_Skillyfiz_misesteCustokillaskivate.accept_status.AcceptStatus_method), 490

 method), 505
- to_dict() (ask_smapi_model.v1.skill.manifest.skill_manifest_cindpoint(Skkll_MannifestDoddpoint\kill.private.list_private_distribution_a method), 491 method), 505

- to_dict() (ask_smapi_model.v1.skill.private_private_distrib_ution_ta(c)c@unk_Rrivate_Distrib_vtlcskAlcsoamdardized_error.StandardizedE method), 506 method), 531
- to_dict() (ask_smapi_model.v1.skill.publication_method_Dublication_Mtsthodnapi_model.v1.skill.standardized_error_code.Standard method), 525 method), 532
- to_dict() (ask_smapi_model.v1.skill.reason.Reason to_dict() (ask_smapi_model.v1.skill.status.Status method), 525 method), 533
- to_dict() (ask_smapi_model.v1.skill.regional_ssl_certificateaRegtonal[&&&Certificateadel.v1.skill.submit_skill_for_certification_req method), 526 method), 533
- to_dict() (ask_smapi_model.v1.skill.resource_import_statuscRestaturce(ImpostsSapiusnodel.v1.skill.update_skill_with_package_requemethod), 526 method), 533
- to_dict() (ask_smapi_model.v1.skill.resource_status.ResourceiStatus) (ask_smapi_model.v1.skill.upload_response.UploadResponse method), 527 method), 534
- to_dict() (ask_smapi_model.v1.skill.response_status.Response_status(ask_smapi_model.v1.skill.validation_data_types.ValidationL method), 527 method), 534
- to_dict() (ask_smapi_model.v1.skill.simulations.alexa_\text{executiont_infoaslexsnExpcutiontbhfol.skill.validation_details.ValidationDetails.method), 506

 method), 537
- to_dict() (ask_smapi_model.v1.skill.simulations.alexa_tesp_orise. Alex (alexa sponse i _ model.v1.skill.validation_endpoint.ValidationEndmethod), 507

 method), 537
- to_dict() (ask_smapi_model.v1.skill.simulations.alexa_tesperiise_tco)n(ansk_d.kexapie_spodse.Cbrskilltvalidation_feature.ValidationFeature.wind), 507

 method), 538
- to_dict() (ask_smapi_model.v1.skill.simulations.device.Devidect() (ask_smapi_model.v1.skill.validations.response_validation.Remethod), 507 method), 512
- to_dict() (ask_smapi_model.v1.skill.simulations.input.Input_dict() (ask_smapi_model.v1.skill.validations.response_validation_inmethod), 508 method), 513
- to_dict() (ask_smapi_model.v1.skill.simulations.invocation_deaptest)Ihnok_asimaPie_qmestel.v1.skill.validations.response_validation_s method), 508 method), 513
- to_dict() (ask_smapi_model.v1.skill.simulations.invocation_drasportse_lasko_cationpiRespondse_1.skill.validations.validations_api_requemethod), 508

 method), 513
- to_dict() (ask_smapi_model.v1.skill.simulations.metricstMetricst() (ask_smapi_model.v1.skill.validations.validations_api_respondented), 509

 method), 514
- to_dict() (ask_smapi_model.v1.skill.simulations.sessiont_Sessiont() (ask_smapi_model.v1.skill.validations.validations_api_respondent), 509 method), 514
- to_dict() (ask_smapi_model.v1.skill.simulations.sessiont_vnode.Sessiont_vnodel.v1.skill.validations.validations_api_respondent.d), 509

 method), 515
- to_dict() (ask_smapi_model.v1.skill.simulations.simulation_dressult.(Sin(madktismRpis_uhodel.v1.skill.withdraw_request.WithdrawRequemethod), 510 method), 538
- to_dict() (ask_smapi_model.v1.skill.simulations.simulationsdapit_req(wask_SimulationsdepiNesquagat_type.StageType method), 510 method), 541
- to_dict() (ask_smapi_model.v1.skill.simulations.simulationsdapit_respanse2_type.StageV2Type method), 511 method), 541
- to_dict() (ask_smapi_model.v1.skill.simulations.simulationsdapit_re)spankes.ptapis_riindulatloresApiR_expoonsseStretnusvendor.Vendor method), 511 method), 539
- to_dict() (ask_smapi_model.v1.skill.skill_interaction_model.SkidlInteraction_model.SkidlInteraction_model.v1.vendor_management.vendors.Vendors method), 528 method), 539
- to_dict() (ask_smapi_model.v1.skill.skill_interaction_models_status.Skill(askrasckonMddklsptplication.Application method), 528 method), 311
- to_dict() (ask_smapi_model.v1.skill_status.SkillStatus_str() (ask_sdk_model.canfulfill.can_fulfill_intent.CanFulfillIntent method), 529 method), 66
- method), 529 method), 66
 to_dict() (ask_smapi_model.v1.skill_summary.SkillSumertary() (ask_sdk_model.canfulfill_can_fulfill_intent_request.CanFulfill_
- method), 530
 method), 67
 to_dict() (ask_smapi_model.v1.skill_summary_apix_SkidlSurnin(arylApidk_model.canfulfill.can_fulfill_intent_values.CanFulfillI
- to_dict() (ask_smapi_model.v1.skill.ssl_certificate_payload_\$\text{SEC}r(ifskaralkayhoadel.canfulfill.can_fulfill_slot.CanFulfillSlot method)}, 531 method), 67

```
to_str() (ask_sdk_model.canfulfill.can_fulfill_slot_values.CastFulfill.ShotVahlesmodel.intent.Intent method), 317
                                                                                                          to_str() (ask_sdk_model.intent_confirmation_status.IntentConfirmation
                 method), 68
to_str() (ask_sdk_model.canfulfill.can_understand_slot_values.Camdilmold);stdrildSlotValues
                                                                                                          to_str() (ask_sdk_model.intent_request.IntentRequest
                 method), 68
to_str() (ask_sdk_model.cause.Cause method), 312
                                                                                                                            method), 318
to_str() (ask_sdk_model.connection_completed.Connection<u>Comp(etedsk_sdk_model.interfaces.alexa.presentation.apl.alexa_presen</u>
                 method), 312
                                                                                                                            method), 79
to_str() (ask_sdk_model.context.Context method), to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.align.Align
                  313
                                                                                                                            method), 80
to_str() (ask_sdk_model.device.Device method), 314 to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.animate_iten
to_str() (ask_sdk_model.dialog.confirm_intent_directive.ConfirmImmtethutDdi);e&tive
                                                                                                          to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.animate_iten
                 method), 69
to_str() (ask_sdk_model.dialog.confirm_slot_directive.ConfirmSlotDihect)y&1
                 method), 69
                                                                                                          to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.animated_op
to_str() (ask_sdk_model.dialog.delegate_directive.DelegateDirectivethod), 81
                 method), 70
                                                                                                          to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.animated_pre
to_str() (ask_sdk_model.dialog.dynamic_entities_directive.DynamicEntit)esDirective
                                                                                                          to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.animated_tra
                 method), 70
to_str() (ask_sdk_model.dialog.elicit_slot_directive.ElicitSlotDirectiveod), 83
                 method), 70
                                                                                                          to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.audio_track.a
                            (ask_sdk_model.dialog_state.DialogState
                                                                                                                            method), 83
to_str()
                                                                                                          to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.auto_page_c
                 method), 314
to_str() (ask_sdk_model.directive.Directive method),
                                                                                                                            method), 84
                                                                                                          to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.clear_focus_
                 317
to_str()
                              (ask_sdk_model.er.dynamic.entity.Entity
                 method), 71
                                                                                                          to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.command.Co
to_str() (ask_sdk_model.er.dynamic.entity_list_item.EntityListItemmethod), 86
                                                                                                          to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.component_e
                 method), 71
to_str() (ask_sdk_model.er.dynamic.entity_value_and_synonyms.Entibydd)lueAndSynonyms
                                                                                                          to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.component_s
                 method), 72
to_str() (ask_sdk_model.er.dynamic.update_behavior.UpdateBehaviathod), 87
                 method), 72
                                                                                                          to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.component_v
to_str() (ask_sdk_model.events.skillevents.account_linked_body.Avneohwodb.inRedBody
                                                                                                          to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.component_v
                 method), 73
to_str() (ask_sdk_model.events.skillevents.account_linked_requestm\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint\tautumodint
                                                                                                          to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.component_v
                 method), 74
to_str() (ask_sdk_model.events.skillevents.permission.Permissionmethod), 89
                                                                                                          to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.component_v
                 method), 74
to_str() (ask_sdk_model.events.skillevents.permission_accepted_neaptleotlPermissionAcceptedRequest
                                                                                                          to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.component_v
to_str() (ask_sdk_model.events.skillevents.permission_body.Permissionbody)0
                                                                                                          to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.component_v
                 method), 75
to_str() (ask_sdk_model.events.skillevents.permission_changed_requestAppAnissionChangedRequest
                                                                                                          to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.component_v
                 method), 76
\verb|to_str()| (ask\_sdk\_model.events.skillevents.proactive\_subscription\_mathnd@d2 body.ProactiveSubscriptionChangedBody)| \\
                                                                                                          to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.component_v
                 method), 76
to_str() (ask_sdk_model.events.skillevents.proactive_subscriptionmethneded Pequest.ProactiveSubscriptionChangedRequest
                                                                                                          to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.component_v
to_str() (ask_sdk_model.events.skillevents.proactive_subscriptionmedboodlPxOdctiveSubscriptionEvent
                                                                                                          to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.component_v
to_str() (ask_sdk_model.events.skillevents.skill_disabled_request.skillbdisabledRequest
                                                                                                          to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_meditation.apl.control_me
to_str() (ask_sdk_model.events.skillevents.skill_enabled_request.SkellEnd)bledRequest
```

to_str() (ask_sdk_model.interfaces.alexa.presentation.apl.execute_com

method), 78

- method), 95 method), 112
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apkhightight_(nsklesHtightightight) (ask_sdk_model.interfaces.alexa.presentation.aplt.alexa_presentation), 113
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apkidket_commaskd_kdle_Goodbrlaimderfaces.alexa.presentation.aplt.auto_page_omethod), 96

 method), 114
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apkmedia_command.Command.Command.Command, 96 method), 115
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apkm_oster_trun(sfxkr_nsdkr_opedel.Mtengaran.xflexnPpmepentyation.aplt.execute_con method), 97 method), 116
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apkopæn_rur]_(aashansdkduQpkellihd@fananxanlexa.presentation.aplt.idle_comma method), 97 method), 116
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apkpastable()_daskn_sdkl_Pawdellel@enfaces.dexa.presentation.aplt.parallel_commethod), 98

 method), 117
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apk_plsy_mextlanskondhamddelhiyMerglinaExonlmanpresentation.aptt.position.Pos method), 99 method), 117
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apkposttion)P(askiostlk_model.interfaces.alexa.presentation.aplt.render_docimethod), 99 method), 118
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apkrepder_ddashnesdkines
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apkrepdered_(dask_undeh_th_modeld_RenedfareelDadenunpmeSeanteation.aplt.scroll_commethod), 100 method), 119
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apkr<u>otate_tna(usfb_rodkp.mpek</u>edyiRtetcftedexanb@mupPersepetctnjon.aplt.send_event_ method), 101 method), 120
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apkruntime.R(anskmadk_model.interfaces.alexa.presentation.aplt.sequential_c method), 101 method), 122
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apks<u>c</u>ele<u>r</u>trans<u>dkroppedte</u>). Socieleflicens.sfloxalPprepsentyation.aplt.set_page_comethod), 102 method), 122
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apkscroth_tomaknskscmll@drimmemfdces.alexa.presentation.aplt.set_value_comethod), 102

 method), 123
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apkscroth_to_(nslexsdkommodedl.iskteofliTeebudlexsGapnesanthtion.aplt.target_profiteebudlexsGapnesanth
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apksend_re(\rangle n(\taux\) or tax\) or tax\) (ask_sdk_model.interfaces.alexa.presentation.apksend_re(\rangle n(\tax\) or tax\) or tax\) (ask_sdk_model.interfaces.alexa.presentation.apksend_re(\rangle n(\tax\) or tax\) (ask_sdk_model.interfaces.alexa.presentation.apksend.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presentation.presenta
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apkseqtentipk(askmsdk_ndh&dqlientinfbCommland.presentation.html.alexa_presemethod), 105 method), 125
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apksetfactus (ask_nodel.interfaces.alexa.presentation.apksetfactus (ask_nodel.interfaces.alexa.presentation.apksetfacetus (ask_nodel.interfaces.alexa.presentation.apksetfacetus (ask_nodel.interfaces.alexa.presentation.apksetfacetus (ask_nodel.interfaces.alexa.presentation.apksetfacetus (ask_nodel.interfaces.alexa.presentation.apksetfacetus (ask_nodel.interfaces.alexa.presentation.apksetfacetus (ask_nodel.interfaces.alexa.presentation.apksetfacetus (ask_nodel.interfaces.alexa.presentation.apksetfacetus (ask_nodel.interfaces.alexa.presentation.alexa.presenta
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apkset_page_(askn_sdk_drsotRdgerCorfamasnallexa.presentation.html.handle_mesmethod), 107 method), 126
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apksetstate)_(ask_mxalkd_iSetSahiteCoofannasiadlexa.presentation.html.message_remethod), 108

 method), 127
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apksetval(ie (aokusdhah8udVulne@fannsamkexa.presentation.html.runtime.Run method), 108 method), 127
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apkskew_rtkansdkraporteslShewTaraessfalenaP.prpsetsyation.html.start_direct method), 109 method), 128
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apksp&takc_tten(askonsubka.mbBpk.inkldeefaCamunhexaclpresentation.html.start_requesemethod), 110 method), 128
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apkspetikr_list(askm_model.interfaces.alexa.presentation.html.start_requemethod), 111 method), 128
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apktrastsfo(n)n(apslopedky_iTivadesformerFraces.are), 111 method), 129
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apkus&t_xeven(dslsestlkentodel.interfaces.alexa.presentation.html.transformer method), 112 method), 130
- to_str() (ask_sdk_model.interfaces.alexa.presentation.apkvideor_squ(nask\Vidbo_Snovdeek.interfaces.amazonpay.model.request.authorize

- method), 131 method), 152
- to_str() (ask_sdk_model.interfaces.amazonpay.model.request.base)_dundzoodkpanyo_dealtintEngseAsnanomBapEnnitydel.v1.provider_cred method), 132 method), 152
- to_str() (ask_sdk_model.interfaces.amazonpay.model.request.bill(ng(ask_readk_ento_delrihtetefaBiblimgAgrapanemAdholibultes lease_environmethod), 133 method), 152
- to_str() (ask_sdk_model.interfaces.amazonpay.model.request.bill(ng(ask_rsalkentotlephinBellfinge\squeonqnfkypmodel.v1.seller_billing_method), 133

 method), 153
- to_str() (ask_sdk_model.interfaces.amazonpay.model.requestpayme(utslacsidkn_iPhayleleint/krfianes.amazonpay.model.v1.seller_order_a method), 134 method), 154
- to_str() (ask_sdk_model.interfaces.amazonpay.model.requess.price).Raiske_sdk_model.interfaces.amazonpay.model.v1.state.State method), 134 method), 154
- to_str() (ask_sdk_model.interfaces.amazonpay.model.request.prov)d(arslattsdb_uneodetaviiderfatesibuntesconpay.request.charge_amazon, method), 135

 method), 155
- to_str() (ask_sdk_model.interfaces.amazonpay.model.request.provideaslcredkt_Prodedlen@redices.amazonpay.request.setup_amazon_pmethod), 135 method), 156
- to_str() (ask_sdk_model.interfaces.amazonpay.model.request_tedler_(bilkingllagmoebeleinttaftributam&ellapBillingr\u00edgseemaat\u00edttr_ilusteet method), 136 method), 157
- to_str() (ask_sdk_model.interfaces.amazonpay.model.request.tedler_(askteribudtelsi&tedlefaCostlanAstrihptesresponse.charge_amazomethod), 137 method), 158
- to_str() (ask_sdk_model.interfaces.amazonpay.model.response.au(t)\landalisidk_daddelsiAtatfacicsationDetailsy.response.setup_amazon_method), 139

 method), 158
- to_str() (ask_sdk_model.interfaces.amazonpay.model.response.au(thoaislatisdk_statlesl_AntthquizastiamStratus)ay.v1.amazon_pay_error_nathod), 140 method), 159
- to_str() (ask_sdk_model.interfaces.amazonpay.model.response.bi(lin(gisligsdkmenotlaleinaidsfBiblinguAgroeupay.nDethilsge_amazon_pay.method), 141 method), 160
- to_str() (ask_sdk_model.interfaces.amazonpay.model.response.destinasko_sdb_estindatlanterfaces.amazonpay.v1.charge_amazon_pay.method), 142 method), 160
- to_str() (ask_sdk_model.interfaces.amazonpay.model.responst.prije(Pskicsdk_model.interfaces.amazonpay.v1.setup_amazon_pay.S method), 142 method), 161
- to_str() (ask_sdk_model.interfaces.amazonpay.model.responstr.re()a(saskensdkomoelel.RakedseEsveimannapay.v1.setup_amazon_pay_nethod), 143

 method), 162
- to_str() (ask_sdk_model.interfaces.amazonpay.model.response_state)e(Statesdk_model.interfaces.audioplayer.audio_item.AudioItem_method), 143 method), 163
- to_str() (ask_sdk_model.interfaces.amazonpay.model.vlt.autbariz(ationsklestdklsuAodhbinitatfanDetanidsoplayer.audio_item_metadata.Amethod), 145 method), 163
- to_str() (ask_sdk_model.interfaces.amazonpay.model.vltautboriz(n)ionsktstlks_AmothelriattionsStstlusdioplayer.audio_player_interface method), 146 method), 163
- to_str() (ask_sdk_model.interfaces.amazonpay.model.vlautborize)_attskbustls_Anadlok:iraAnfailnstesudioplayer.audio_player_state.Aud method), 147 method), 164
- to_str() (ask_sdk_model.interfaces.amazonpay.model.vltbi<u>llistgr@gr@askerstllaturidaleleinBilfingA.gnedinphtAetribupteon_</u>data.CaptionD method), 147 method), 164
- to_str() (ask_sdk_model.interfaces.amazonpay.model.vlt.bi<u>ll</u>istgr@gr@askenstlkdataidle.BiblionfdxgreenndiatpDaspeil.caption_type.CaptionTymethod), 148

 method), 165
- to_str() (ask_sdk_model.interfaces.amazonpay.model.vltbi<u>ll</u>istgr_dgr@askerstllstntaddbiblinegfagesemulitfilatysr.clear_behavior.ClearBo method), 149 method), 165
- to_str() (ask_sdk_model.interfaces.amazonpay.model.vkbi<u>llistgr@gr@askerstlkyproBillingAffreesmandTypl</u>ayer.clear_queue_directive.org. method), 149 method), 165
- to_str() (ask_sdk_model.interfaces.amazonpay.model.vk_destination(Dedstindktion) del.interfaces.audioplayer.current_playback_state method), 150 method), 166
- to_str() (ask_sdk_model.interfaces.amazonpay.model.vk.pay\tent(\a(\text{tiskn_Rdkynneodl\(\text{k}\) interfaces.audioplayer.error.Error method), 151 method), 166
- to_str() (ask_sdk_model.interfaces.amazonpay.model.vk.pricetRrtde(ask_sdk_model.interfaces.audioplayer.error_type.ErrorType method), 151 method), 166
- to_str() (ask_sdk_model.interfaces.amazonpay.model.vk.prosider()aktriskutsek/pmoddeiAnterfbatessaudioplayer.play_behavior.PlayBeh

- method), 167 method), 185
- to_str() (ask_sdk_model.interfaces.audioplayer.play_directivetPlayDirectivet_model.interfaces.custom_interface_controller.event_play_directivetPlayDirectivet_model.interfaces.custom_interface_controller.event_play_directivet_PlayDirectivet_MayDirectivet_MayDirectivet_model.interfaces.custom_interface_controller.event_play_directivet_MayDirectivet_May
- to_str() (ask_sdk_model.interfaces.audioplayer.playback_faikda_tequest_RllkybnoklFhihedRequesstustom_interface_controller.events_ method), 168 method), 186
- to_str() (ask_sdk_model.interfaces.audioplayer.playback_<u>fin</u>isthed_reqslestdklayloadel.Finiesfiaddeequuetstm_interface_controller.expirat method), 169 method), 187
- to_str() (ask_sdk_model.interfaces.audioplayer.playback_onestly_(fin(slskdsdkqmestl#llin)leafdkd*eanlyFinishtdeRfequestontroller.expired method), 170 method), 188
- to_str() (ask_sdk_model.interfaces.audioplayer.playback_ostarted()re(pokstsklkayhadkSianterflRecquesstom_interface_controller.filter_n method), 170 method), 188
- to_str() (ask_sdk_model.interfaces.audioplayer.playback_ostopped_)reqslessdklayboakelSntppfedeRsquuessom_interface_controller.header. method), 171 method), 189
- to_str() (ask_sdk_model.interfaces.audioplayer.player_tactivity.Playensktisdky_model.interfaces.custom_interface_controller.send_d method), 171 method), 189
- to_str() (ask_sdk_model.interfaces.audioplayer.stop_directivetStap)D(irsk_tisdk_model.interfaces.custom_interface_controller.start_e method), 172 method), 190
- to_str() (ask_sdk_model.interfaces.audioplayer.stream.Stream.tr() (ask_sdk_model.interfaces.custom_interface_controller.stop_enethod), 172 method), 190
- to_str() (ask_sdk_model.interfaces.automotive_automotive_state.Aut(anhtisdlStatodel.interfaces.display.back_button_behavior.Back_method), 173

 method), 191
- to_str() (ask_sdk_model.interfaces.connections.connecttoms_srequest(askn_msdktimmxRdqnestfaces.display.body_template1.BodyTemplate1.bodyTempla
- to_str() (ask_sdk_model.interfaces.connections.connections_sresponses&ondk_thouled.interfaces.display.body_template2.BodyTemplate2.bodyTemplate2.bodyTemplate2.bodyTemplate3.body_template
- to_str() (ask_sdk_model.interfaces.connections.connections_sylati(s).Coskn_exdko_ms&del.interfaces.display.body_template3.BodyTemplate3.method), 183 method), 193
- to_str() (ask_sdk_model.interfaces.connections.entities.basesentity.Rask_Entitymodel.interfaces.display.body_template6.BodyTemplate6.dotyTemplate6.basesentity.Rask_Entitymodel.interfaces.display.body_template6.BodyTemplate6.basesentity.Rask_Entitymodel.interfaces.display.body_template6.BodyTemplate6.basesentity.Rask_Entitymodel.interfaces.display.body_template6.BodyTemplate6.BodyTemplate6.basesentity.Rask_Entitymodel.interfaces.display.body_template6.BodyTempl
- to_str() (ask_sdk_model.interfaces.connections.entities.postad_address.lP_ostle_model.interfaces.display.body_template7.BodyTemplate7.bodyTemp
- to_str() (ask_sdk_model.interfaces.connections.entities.restantent.)Reashusdht_model.interfaces.display.display_interface.DisplayInterface), 175 method), 195
- to_str() (ask_sdk_model.interfaces.connections.requests_base_treque(uska_selRequadel.interfaces.display.display_state.DisplayState method), 176 method), 195
- to_str() (ask_sdk_model.interfaces.connections.requeststprint_imkigkaskqudki_fhcidelnintgeRuqusedisplay.element_selected_request.Elemethod), 177

 method), 195

 to_str() (ask_sdk_model_interfaces_connections_requeststprint_redf) requeststprint_redf) requeststprint_redf).
- to_str() (ask_sdk_model.interfaces.connections.requeststpr<u>in</u>st_pdf)_re(**qsks_t_sHki_mnPdHRntanfst**:es.display.hint.Hint method), 177 method), 196
- to_str() (ask_sdk_model.interfaces.connections.requestst.printtwell)_taske_schquastdPkintWghPergdRspdayshint_directive.HintDirective method), 178 method), 196
- to_str() (ask_sdk_model.interfaces.connections.requests_xsh_edule()fdodk_estlkb_hishdednin_terfaces.dibsp_lregimans&dhedniedeFoodEstablish method), 179 method), 197 to_str() (ask_sdk_model.interfaces.connections.requests_xsh_edule()tdxiske_sdk_mtiale_hiquefstc&sheispleffxixiRgse_instiancRdqueseInstar
- method), 179
 method), 197
 to_str() (ask_sdk_model.interfaces.connections.send_requestdirectivestliveslSendRequestDirectives.display.image_size.ImageSize
- to_str() (ask_sdk_model.interfaces.connections.send_request_dire\tallertare\
- to_str() (ask_sdk_model.interfaces.connections.send_response_dtrectisk_SehkdRumpehisuDriftecetisedisplay.list_item.ListItem method), 184 method), 198
- to_str() (ask_sdk_model.interfaces.connections.v1.start_connection(dike_stilke_stadtCintaefairesDispdtiy.bist_template1.ListTemplate1.method), 180

 method), 199
- to_str() (ask_sdk_model.interfaces.custom_interface_contr<u>o</u>lleræhdkaskt_Edddpnintel.interfaces.display.list_template2.ListTemplate2.

 method), 184

 method), 199
- to_str() (ask_sdk_model.interfaces.custom_interface_comoro_lterreventaEke_sadk_model.interfaces.display.plain_text.PlainText

- method), 200 method), 215
 to_str() (ask_sdk_model.interfaces.display.plain_text_hims_PlatinText_fdiskt_sdk_model.interfaces.playbackcontroller.previous_commo
- method), 200 method), 216
- to_str() (ask_sdk_model.interfaces.display.render_temptate_stire.dtjv(aRlendthrImpell.timDirfactivessystem.error.Error method), 200 method), 216
- to_str() (ask_sdk_model.interfaces.display.rich_text.RichTexttr() (ask_sdk_model.interfaces.system.error_cause.ErrorCause method), 201 method), 217
- to_str() (ask_sdk_model.interfaces.display.template.Templatetr() (ask_sdk_model.interfaces.system.error_type.ErrorType method), 202 method), 217
- to_str() (ask_sdk_model.interfaces.display.text_content.Text&mt(n)t (ask_sdk_model.interfaces.system.exception_encountered_requested), 202 method), 218
- to_str() (ask_sdk_model.interfaces.display.text_field.TextEiektr() (ask_sdk_model.interfaces.system.system_state.SystemState method), 203 method), 218
- to_str() (ask_sdk_model.interfaces.gadget_controller.set_dight_directive.Comp method), 204 method), 219
- to_str() (ask_sdk_model.interfaces.game_engine.input_hon_dbarr_e(v)e(usk_equks_tnInput_lihttntflaceExveidReapppstaunch_directive.LaunchL method), 205 method), 220
- to_str() (ask_sdk_model.interfaces.game_engine.start_inputs|hank|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|le(naski_redkiven&thelt.Input|l
- method), 220

 to_str() (ask_sdk_model.interfaces.game_engine.stop_irtput_strandbek_adkreadkyn&tdopl.inpterfftwedleideiraptiveideo_app_interface.Video
 method), 206

 method), 220
- to_str() (ask_sdk_model.interfaces.geolocation.access.Accesstr() (ask_sdk_model.interfaces.videoapp.video_item.VideoItem method), 206 method), 221
- method), 206 method), 221
 to_str() (ask_sdk_model.interfaces.geolocation.altitude.\(\text{Adtitude}\) () (ask_sdk_model.interfaces.viewport.apl.current_configuration.
- method), 207 method), 222 to_str() (ask_sdk_model.interfaces.geolocation.coordinate_Corordinates_sdk_model.interfaces.viewport.apl.viewport_configuration
- method), 207 method), 222
 to_str() (ask_sdk_model.interfaces.geolocation.geolocation_sinterfacedealinearingleaces.viewport.apl_viewport_state.APLViewport_state.APLViewport_state.APLViewport_state.apl_vie
- method), 208 method), 227
 to_str() (ask_sdk_model.interfaces.geolocation.geolocation_state(Geolocation_state).interfaces.viewport.aplt.character_format.Cha
- method), 209 method), 223 to_str() (ask_sdk_model.interfaces.geolocation.headingtHeading() (ask_sdk_model.interfaces.viewport.aplt.inter_segment.InterSe
- method), 209 method), 223
 to_str() (ask_sdk_model.interfaces.geolocation.location_services(Locationsbermioekel.interfaces.viewport.aplt.viewport_profile.View
- method), 210 method), 223
 to_str() (ask_sdk_model.interfaces.geolocation.speed.Speed_str() (ask_sdk_model.interfaces.viewport.aplt_viewport_state.APLT
- method), 210 method), 228 to_str() (ask_sdk_model.interfaces.geolocation.status.Statusstr() (ask_sdk_model.interfaces.viewport.experience.Experience
- method), 210
 method), 228
 to_str() (ask_sdk_model.interfaces.messaging.message_treceisted_(request_Mks_sngdRleintienfdResquiess)port.keyboard.Keyboard
 method), 211
 method), 229
- to_str() (ask_sdk_model.interfaces.monetization.v1.in_skil_product(hrskkillRrododel.interfaces.viewport.mode.Mode

 method) 212

 method) 229
- method), 212 method), 229
 to_str() (ask_sdk_model.interfaces.monetization.v1.purchasestres(i)t.(Ruskc|sdke|Rusdel.interfaces.viewport.presentation_type.Pres
- method), 212
 method), 229
 to_str() (ask_sdk_model.interfaces.navigation.assistance.caneounte_(makd_srbg_uhatileh.iAttenfance:RicoufReguslatipenShape method), 213
 method), 230
- to_str() (ask_sdk_model.interfaces.navigation.navigation<u>oinserface</u>; Nuski galkonindedfinderfaces.viewport.size.continuous_viewport_ method), 213

 method), 224
- method), 213

 method), 224

 to_str() (ask_sdk_model.interfaces.playbackcontroller.next_comm(andusks_sudbl_madelstrikerftCommiemplinswiddRdipwrette_viewport_size
 method), 214

 method), 225
- to_str() (ask_sdk_model.interfaces.playbackcontroller.pausestantmdask_isslkedn_oelqlientdrfauseCvinempordIsizneedReapnorst_size.Viewport method), 215 method), 225
- to_str() (ask_sdk_model.interfaces.playbackcontroller.ptay_somentandaksssedd_maqledsimPlayGosnaricanplorsutedBleGioesth

- *method*), 230 method), 242
- to_str() (ask_sdk_model.interfaces.viewport.typed_viewportsstate.)Typskl\vidwpnrtSehrervices.gadget_controller.set_light_paramete method), 231 method), 242
- to_str() (ask_sdk_model.interfaces.viewport.video.code&sc<u>C</u>cadexs() (ask_sdk_model.services.gadget_controller.trigger_event_type. *method*), 226 method), 243
- to_str() (ask_sdk_model.interfaces.viewport.viewport_state_biov@rf8sktesdk_model.services.game_engine.deviation_recognizer.Do method), 232 method), 243
- to_str() (ask_sdk_model.interfaces.viewport.viewport_state_state_vtde&.Vtdeb_sdk_model.services.game_engine.event.Event method), 232 method), 244
- to_str() (ask_sdk_model.interfaces.viewport.viewport_video_&/iewp)o(tMklesalk_model.services.game_engine.event_reporting_type.E method), 244 *method*), 233
- $to_str()$ (ask_sdk_model.launch_request.LaunchRequest $to_str()$ (ask_sdk_model.services.game_engine.input_event.InputEvent method), 245 *method*), 319
- to_str() (ask_sdk_model.permission_status.PermissionStatus.str() (ask_sdk_model.services.game_engine.input_event_action_typ method), 319 method), 245
- $(ask_sdk_model.permissions.Permissions \ to_str() (ask_sdk_model.services.game_engine.input_handler_event.In_location (ask_sdk_model.services.game_engine.input_handler_event.game_engine.game_engin$ to_str() method), 320method), 246
- to_str() (ask_sdk_model.person.Person method), 320 to_str() (ask_sdk_model.services.game_engine.pattern.Pattern to_str() (ask_sdk_model.request.Request method), method), 246
- 324 to_str() (ask_sdk_model.services.game_engine.pattern_recognizer.Patt to_str() (ask_sdk_model.request_envelope.RequestEnvelope method), 247
- to_str() (ask_sdk_model.services.game_engine.pattern_recognizer_and method), 324
- to_str() (ask_sdk_model.response.Response method), method), 248 to_str() (ask_sdk_model.services.game_engine.progress_recognizer.Pro
- to_str() (ask_sdk_model.response_envelope.ResponseEnvelope method), 248 to_str() (ask_sdk_model.services.game_engine.recognizer.Recognizer
- method), 325
- to_str() (ask_sdk_model.scope.Scope method), 326 method), 249 $\verb|to_str()| (ask_sdk_model.services.device_address.address.address.d)| (ask_sdk_model.services.list_management.alexa_list.AlexaList)| (ask_sdk_model.services.list_management.alexa_list.AlexaLi$ method), 250
- to_str() (ask_sdk_model.services.device_address.error.Error_str() (ask_sdk_model.services.list_management.alexa_list_item.Alex method), 235 *method*), 251
- to_str() (ask_sdk_model.services.device_address.short_addresssS(no(tt\)tdsdds_model.services.list_management.alexa_list_metadata method), 251 method), 235
- to_str() (ask_sdk_model.services.directive.directive.Directive.tr() (ask_sdk_model.services.list_management.alexa_lists_metadat method), 251 *method*), 236
- to_str() (ask_sdk_model.services.directive.error.Error to_str() (ask_sdk_model.services.list_management.create_list_item_red method), 237 method), 252
- method), 252 method), 237
- to_str() (ask_sdk_model.services.directive.send_directive<u>ore</u>puest, **SeadDisdktiveRedusest**vices.list_management.error.Error method), 237 method), 253
- to_str() (ask_sdk_model.services.directive.speak_directive.<u>SpeakDirastkye</u>sdk_model.services.list_management.forbidden_error.For *method*), 238 method), 253
- to_str() (ask_sdk_model.services.endpoint_enumerationt.en<u>dpoint/clupsb_ibidk_Endpolist&vipabillisty_</u>management.links.Links method), 253 method), 239
- to_str() (ask_sdk_model.services.endpoint_enumeration<u>t.endpoint()ehaske salkiomo</u>ndespoenseidesdjestintleinagnementohikte_slpoodssd.istBody *method*), 239 method), 254
- to_str() (ask_sdk_model.services.endpoint_enumerationt_endpoint_)infastEndfko_intldfb.services.list_management.list_created_event_i method), 254 method), 240
- to_str() (ask_sdk_model.services.endpoint_enumerationterrantertar()r(ask_sdk_model.services.list_management.list_deleted_event_i method), 240 method), 255
- to_str() (ask_sdk_model.services.gadget_controller.animationt_step_.Aasikn_atlbn_bteqbel.services.list_management.list_item_body.ListI method), 256method), 241
- to_str() (ask_sdk_model.services.gadget_controller.light_ca<u>n</u>tsrtation.[aisthts4tkinnaoidel.services.list_management.list_item_state.ListI

- method), 256 method), 276
- to_str() (ask_sdk_model.services.list_management.list_ttemss_cre(t)e(t)skventk_request_slasvItemsscoreatevtE_venetRequestant_audience.Remethod), 256

 method), 277
- to_str() (ask_sdk_model.services.list_management.list_item.s_delene(la.evestdkreapodest.Listvikeen.spDalattidEvertiNeapodest.ant_audience_t method), 257

 method), 277
- to_str() (ask_sdk_model.services.list_management.list_item_ss_tupdated_skv_edk_maqdests&isiltesnps&pdtited_EventRelqil&stage.SkillStag method), 258 method), 277
- to_str() (ask_sdk_model.services.list_management.list_statestistStru(ask_sdk_model.services.reminder_management.alert_info.Ale method), 261 method), 278
- to_str() (ask_sdk_model.services.list_management.list_typd_asedr_ev)e(askeqdk_snLadstUpelasticdeEvremRulpre_snanagement.alert_info_spo method), 261 method), 278
- to_str() (ask_sdk_model.services.list_management.statuts.Statuts() (ask_sdk_model.services.reminder_management.error.Error method), 262 method), 279
- to_str() (ask_sdk_model.services.list_management.update_list_item_(ask_upddeelsistNiensRequiesder_management.event.Event method), 262 method), 279
- to_str() (ask_sdk_model.services.list_management.update_list_recpueatUpdate_histNexpresites.reminder_management.get_reminder_method), 263

 method), 280
- to_str() (ask_sdk_model.services.lwa.access_token_reqtuest_Atcess_token_redtuest_del.services.reminder_management.get_reminders method), 264 method), 281
- to_str() (ask_sdk_model.services.lwa.access_token_responsesAccessClaskensRksponsel.services.reminder_management.push_notificate method), 264 method), 281
- to_str() (ask_sdk_model.services.lwa.error.Error to_str() (ask_sdk_model.services.reminder_management.push_notificate method), 265 method), 281
- to_str() (ask_sdk_model.services.monetization.entitled_statesEntitled&skt_esdk_model.services.reminder_management.recurrence.Remethod), 266 method), 282
- to_str() (ask_sdk_model.services.monetization.entitlemeno_reason).Entitlemeno_reason.Entitlem
- to_str() (ask_sdk_model.services.monetization.error.Erroo_str() (ask_sdk_model.services.reminder_management.recurrence_fr method), 267 method), 283
- to_str() (ask_sdk_model.services.monetization.in_skill_productdn\\$kidd\rangle\controler.gemodel.services.reminder_management.reminder.Rem method), 268 method), 284
- to_str() (ask_sdk_model.services.monetization.in_skill_pxoductrtvpu(stsktiodk_neopohserkri8killPnoiduletT_naasaagionesResqninsder_creamethod), 268 method), 285
- to_str() (ask_sdk_model.services.monetization.in_skill_products_tresports_edk_ShibheloxhavtisRespontsader_management.reminder_delomethod), 269

 method), 285

 to str() (ask_sdk_model.services.monetization.motel.deth_Motel.eth_(ask_sdk_model.services.monetization.motel.deth_Motel.eth_(ask_sdk_model.services.monetization.motel.deth_Motel.eth_(ask_sdk_model.services.monetization.motel.deth_Motel.eth_(ask_sdk_model.services.monetization.motel.deth_Motel.eth_(ask_sdk_model.services.monetization.motel.deth_Motel.eth_(ask_sdk_model.services.monetization.motel.deth_Motel.eth_(ask_sdk_model.services.monetization.motel.deth_Motel.eth_(ask_sdk_model.services.monetization.motel.deth_(ask_sdk_model.services.monetization.motel.deth_(ask_sdk_model.services.monetization.motel.deth_(ask_sdk_model.services.monetization.motel.deth_(ask_sdk_model.services.motel.det
- to_str() (ask_sdk_model.services.monetization.metadata.Metadata) (ask_sdk_model.services.reminder_management.reminder_delemethod), 269 method), 285
- to_str() (ask_sdk_model.services.monetization.product_txpesProduct_txpesdk_model.services.reminder_management.reminder_requested), 272 method), 287
- to_str() (ask_sdk_model.services.monetization.purchasabbe_state(Pu(xskasxdklesstadel.services.reminder_management.reminder_resp method), 272 method), 288
- to_str() (ask_sdk_model.services.monetization.purchase_mode.Purchase_Mdde_model.services.reminder_management.reminder_star method), 272 method), 289
- to_str() (ask_sdk_model.services.monetization.result_set.Results&t) (ask_sdk_model.services.reminder_management.reminder_state method), 273 method), 289
- to_str() (ask_sdk_model.services.monetization.status.Status_str() (ask_sdk_model.services.reminder_management.reminder_upatenthod), 273 method), 290
- to_str() (ask_sdk_model.services.monetization.transactions_Etans@c(tasks_sdk_model.services.reminder_management.spoken_text.Sp method), 274 method), 290
- to_str() (ask_sdk_model.services.proactive_events.create<u>oprotactive_ask_nsdkequosheCservieRevrentReaquest</u>nent.status.Status method), 275 method), 291
- to_str() (ask_sdk_model.services.proactive_events.errortErrestr() (ask_sdk_model.services.reminder_management.trigger.Trigge method), 275 method), 291
- to_str() (ask_sdk_model.services.proactive_events.event.Eventr() (ask_sdk_model.services.reminder_management.trigger_type.T

```
method), 292
                                                                                                                                                                                                   method), 308
to_str() (ask_sdk_model.services.skill_messaging.error.Errostr() (ask_sdk_model.ui.plain_text_output_speech.PlainTextOutputS
                           method), 292
                                                                                                                                                                                                   method), 309
to_str() (ask_sdk_model.services.skill_messaging.send_xki<u>ll_stræskivginsk_radhuontoSehdtSkilldtM_doshq</u>iniqRelprdSehavior
                           method), 293
                                                                                                                                                                                                    method), 309
to_str() (ask_sdk_model.services.ups.distance_units.Distance&Units)
                                                                                                                                                                                                                            (ask_sdk_model.ui.reprompt.Reprompt
                           method), 294
                                                                                                                                                                                                    method), 309
to_str()
                                               (ask_sdk_model.services.ups.error.Error to_str() (ask_sdk_model.ui.simple_card.SimpleCard
                           method), 295
                                                                                                                                                                                                    method), 310
to\_str() (ask_sdk_model.services.ups.error_code.Error \textcircled{End}estr() (ask_sdk_model.ui.ssml_output_speech.SsmlOutputSpeech
                                                                                                                                                                                                   method), 310
                           method), 295
to_str() (ask_sdk_model.services.ups.phone_number.PhoneNstanber (ask_sdk_model.ui.standard_card.StandardCard
                                                                                                                                                                                                   method), 310
                           method), 296
to_str() (ask_sdk_model.services.ups.temperature_unit.Famperatwre_link_sdk_model.user.User method), 332
                                                                                                                                                                       to_str() (ask_sdk_model_runtime.lwa.access_token_request.AccessToke
                           method), 296
                                     (ask_sdk_model.session.Session method),
                                                                                                                                                                                                    method), 56
to_str()
                                                                                                                                                                       \verb|to_str()| (ask\_sdk\_model\_runtime.lwa.access\_token\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessToken\_response.AccessTok
                            326
to_str() (ask_sdk_model.session_ended_error.SessionEndedErrormethod), 57
                                                                                                                                                                                                                     (ask_sdk_model_runtime.lwa.error.Error
                           method), 327
                                                                                                                                                                       to_str()
to_str() (ask_sdk_model.session_ended_error_type.SessionEndedEnerthnoElype7
                           method), 327
                                                                                                                                                                       to_str() (ask_smapi_model.v1.bad_request_error.BadRequestError
to_str() (ask_sdk_model.session_ended_reason.SessionEndedReasorthod), 540
                           method), 328
                                                                                                                                                                        to_str() (ask_smapi_model.v1.catalog.create_content_upload_url_requ
to_str() (ask_sdk_model.session_ended_request.SessionEndedRequesthod), 367
                                                                                                                                                                       to_str() (ask_smapi_model.v1.catalog.create_content_upload_url_resp
to_str() (ask_sdk_model.session_resumed_request.SessionResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedResumedRes
                                                                                                                                                                       to_str() (ask_smapi_model.v1.catalog.presigned_upload_part_items.Pr
                           method), 329
to_str() (ask_sdk_model.slot.Slot method), 330
                                                                                                                                                                                                   method), 368
to_str() (ask_sdk_model.slot_confirmation_status.SlotConfirmation)\Staskussmapi_model.v1.catalog.upload.catalog_upload_base.Ca
                                                                                                                                                                                                    method), 362
                           method), 330
to_str() (ask_sdk_model.slu.entityresolution.resolution.Res<u>o</u>bation) (ask_smapi_model.v1.catalog.upload.content_upload_file_sum
                           method), 304
                                                                                                                                                                                                    method), 363
to_str() (ask_sdk_model.slu.entityresolution.resolutionstResetutions(ask_smapi_model.v1.catalog.upload.file_upload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_status.FileUpload_statu
                           method), 304
                                                                                                                                                                                                    method), 363
to_str() (ask_sdk_model.slu.entityresolution.status.Statuso_str() (ask_smapi_model.v1.catalog.upload.get_content_upload_resp
                           method), 304
                                                                                                                                                                                                    method), 364
to_str() (ask_sdk_model.slu.entityresolution.status_code.StatusCode(ask_smapi_model.v1.catalog.upload.ingestion_status.Ingestio
                           method), 305
                                                                                                                                                                                                   method), 364
to\_str() (ask_sdk_model.slu.entityresolution.value.Valueto\_str() (ask_smapi_model.v1.catalog.upload.ingestion_step_name.Ing
                           method), 305
                                                                                                                                                                                                   method), 364
\verb|to_str()| (ask\_sdk\_model.slu.entityre solution.value\_wrapper\_\textit{Yatlue(W)} fappermapi\_model.v1. catalog.upload.location. Location (ask\_sdk\_model.slu.entityre solution.) (ask\_sdk\_model.slu.entityre solution. Location (ask\_sdk\_model.slu.entityre solution.) (ask\_sdk\_model.slu.enti
                           method), 306
                                                                                                                                                                                                   method), 365
to_str() (ask_sdk_model.status.Status method), 330
                                                                                                                                                                       to_str() (ask_smapi_model.v1.catalog.upload.pre_signed_url.PreSigne
to_str() (ask_sdk_model.supported_interfaces.SupportedInterfacesnethod), 365
                           method), 331
                                                                                                                                                                        to_str() (ask_smapi_model.v1.catalog.upload.pre_signed_url_item.Pre
to_str() (ask_sdk_model.task.Task method), 332
                                                                                                                                                                                                    method), 366
to_str() (ask_sdk_model.ui.ask_for_permissions_consent<u>ca</u>xd.A.$\Pax\Pe<u>rmissions6dodsehtCatad</u>log.upload.upload_ingestion_step.U
                           method), 306
                                                                                                                                                                                                   method), 366
to_str() (ask_sdk_model.ui.card.Card method), 307
                                                                                                                                                                        to_str() (ask_smapi_model.v1.catalog.upload.upload_status.UploadSta
to_str() (ask_sdk_model.ui.image.Image method),
                                                                                                                                                                                                   method), 367
                            307
                                                                                                                                                                        to_str() (ask_smapi_model.v1.error.Error method),
to_str() (ask_sdk_model.ui.link_account_card.LinkAccountCard 540
                           method), 307
                                                                                                                                                                        to_str() (ask_smapi_model.v1.isp.associated_skill_response.Associated
```

method), 369

to_str() (ask_sdk_model.ui.output_speech.OutputSpeech

```
to_str() (ask_smapi_model.v1.isp.create_in_skill_product<u>o_res</u>quest).Cuestte_Infili_Product_I_eispectax_information.TaxInformation
                          method), 369
                                                                                                                                                                                        method), 390
to_str() (ask_smapi_model.v1.isp.currency.Currency to_str() (ask_smapi_model.v1.isp.tax_information_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_category.TaxInformation_ca
                         method), 370
                                                                                                                                                                                        method), 390
to_str() (ask_smapi_model.v1.isp.custom_product_prompts_&ustom_RnoklustRnoin_uputsdel.v1.isp.update_in_skill_product_request.Upd
                         method), 370
                                                                                                                                                                                        method), 390
to_str() (ask_smapi_model.v1.isp.distribution_countriest.Distribution(Cash_ustniessi_model.v1.link.Link method), 540
                                                                                                                                                              to_str() (ask_smapi_model.v1.links.Links method),
                         method), 377
to_str() (ask_smapi_model.v1.isp.editable_state.EditableState
                                                                                                                                                                                     541
                          method), 378
                                                                                                                                                              to_str() (ask_smapi_model.v1.skill.account_linking.access_token_schen
\verb|to_str()| (ask\_smapi\_model.v1.isp.in\_skill\_product\_definition.InSkill \verb|Phrod)|| c3D | efinition | effective the strong product | effective the strong 
                                                                                                                                                              to_str() (ask_smapi_model.v1.skill.account_linking.account_linking_re
                         method), 379
to_str() (ask_smapi_model.v1.isp.in_skill_product_definition_respnoetholh)$$\text{SMIP} roductDefinitionResponse
                         method), 379
                                                                                                                                                              to_str() (ask_smapi_model.v1.skill.account_linking.account_linking_re
to_str() (ask_smapi_model.v1.isp.in_skill_product_summary.InSkill@hodl)ctSummary
                          method), 381
                                                                                                                                                              to_str() (ask_smapi_model.v1.skill.account_linking.account_linking_ty
to_str() (ask_smapi_model.v1.isp.in_skill_product_summary_respnateclalsRXWProductSummaryResponse
                                                                                                                                                                                                         (ask_smapi_model.v1.skill.action.Action
                         method), 381
                                                                                                                                                              to_str()
to_str() (ask_smapi_model.v1.isp.isp_summary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSummary_links.IspSum
                         method), 381
                                                                                                                                                              to_str() (ask_smapi_model.v1.skill.agreement_type.AgreementType
to_str() (ask_smapi_model.v1.isp.list_in_skill_product.ListInSkillPreatland(), 516
                         method), 382
                                                                                                                                                              to_str() (ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_info.Host
to_str() (ask_smapi_model.v1.isp.list_in_skill_product_response.bistln&k)!ProductResponse
                                                                                                                                                              to_str() (ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_metadata
                         method), 382
to_str() (ask_smapi_model.v1.isp.localized_privacy_and_complianethbd)all\(\frac{2}{2}\)\(\text{d}\)PrivacyAndCompliance
                         method), 382
                                                                                                                                                              to_str() (ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_permissic
to_str() (ask_smapi_model.v1.isp.localized_publishing_informationellocallizedPublishingInformation
                                                                                                                                                              to_str() (ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_permissic
                         method), 384
to_str() (ask_smapi_model.v1.isp.marketplace_pricing.MarketplamePhioding396
                         method), 384
                                                                                                                                                              to_str() (ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_permissic
to_str() (ask_smapi_model.v1.isp.price_listing.PriceListing
                                                                                                                                                                                        method), 396
                          method), 384
                                                                                                                                                              to_str() (ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_repositor
to_str() (ask_smapi_model.v1.isp.privacy_and_compliance.Privacy_ethde_pmpTiance
                                                                                                                                                              method), 385
to_str() (ask_smapi_model.v1.isp.product_response.ProductResponsethod), 397
                                                                                                                                                              to_str() (ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_repositor
                         method), 385
to_str() (ask_smapi_model.v1.isp.product_type.ProductType
                                                                                                                                                                                        method), 398
                         method), 386
                                                                                                                                                              to_str() (ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_repositor
to_str() (ask_smapi_model.v1.isp.publishing_information.Publishingthqfd);matton
                         method), 386
                                                                                                                                                              to_str() (ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_repositor
to_str() (ask_smapi_model.v1.isp.purchasable_state.Purchasable_state.od), 398
                         method), 387
                                                                                                                                                              to_str() (ask_smapi_model.v1.skill.alexa_hosted.hosted_skill_runtime.l
to_str()
                                                     (ask_smapi_model.v1.isp.stage.Stage
                                                                                                                                                                                        method), 399
                                                                                                                                                              to_str() (ask_smapi_model.v1.skill.beta_test.beta_test.BetaTest
                         method), 387
                                                  (ask\_smapi\_model.v1.isp.status.Status
                                                                                                                                                                                        method), 402
to_str()
                                                                                                                                                              to_str() (ask_smapi_model.v1.skill.beta_test.status.Status
                         method), 387
to_str() (ask_smapi_model.v1.isp.subscription_information.Subscripthoodlyftration
                                                                                                                                                              to_str() (ask_smapi_model.v1.skill.beta_test.test_body.TestBody
                          method), 388
to_str() (ask_smapi_model.v1.isp.subscription_payment_frequency.subscription_paymentFrequency
                                                                                                                                                              to_str() (ask_smapi_model.v1.skill.beta_test.testers.invitation_status.In
                         method), 388
\verb|to_str()| (ask\_smapi\_model.v1. isp. summary\_market place\_pricing. \textit{Sweethword}); \textit{yMod} rket place Pricing (ask\_smapi\_model.v1. isp. summary\_market place\_pricing) (ask\_smapi\_model.v1. isp. sum
                                                                                                                                                              to_str() (ask_smapi_model.v1.skill.beta_test.testers.list_testers_respond
to_str() (ask_smapi_model.v1.isp.summary_price_listing.SummaryPrice_listing
```

to_str() (ask_smapi_model.v1.skill.beta_test.testers.tester.Tester

method), 389

- method), 400 method), 414
- to_str() (ask_smapi_model.v1.skill.beta_test.testers.testero_wisth_rdetdidskTestrapWithDetdids.skill.evaluations.resolutions_per_authormethod), 401 method), 414
- to_str() (ask_smapi_model.v1.skill.beta_test.testers.testers_list_feste(maskis_tmapi_model.v1.skill.evaluations.resolutions_per_author method), 401 method), 415
- to_str() (ask_smapi_model.v1.skill.build_details.BuildDetailstr() (ask_smapi_model.v1.skill.evaluations.resolutions_per_authormethod), 516 method), 415
- to_str() (ask_smapi_model.v1.skill.build_step.BuildStepto_str() (ask_smapi_model.v1.skill.evaluations.slot.Slot method), 517 method), 415
- to_str() (ask_smapi_model.v1.skill.build_step_name.BuildStepName(ask_smapi_model.v1.skill.evaluations.slot_resolutions.SlotResolution), 517 method), 416
- to_str() (ask_smapi_model.v1.skill.certification.certification_sresponsaske_stifuquitimodelspdnskill.export_response.ExportResponse method), 404 method), 519
- to_str() (ask_smapi_model.v1.skill.certification.certification.srexul). (ask_smapi_model.v1.skill.export_response_skill.ExportRespon method), 404

 method), 519

 to_str() (ask_smapi_model.v1.skill.certification.ce
- to_str() (ask_smapi_model.v1.skill.certification.certificationsstatus.Caskifsandipin_Shotlesl.v1.skill.history.confidence.Confidence method), 405 method), 417
- to_str() (ask_smapi_model.v1.skill.certification.certification_stan(nangsEesthifipai_timnStahnlaskill.history.confidence_bin.ConfidenceB method), 405

 method), 417
- to_str() (ask_smapi_model.v1.skill.certification.distribution_sinfo.Distribusion_fined) 406

 method) 406
- method), 406 method), 417
 to_str() (ask_smapi_model.v1.skill.certification.estimation_uptdate) Katshn_asinompli prhasteel.v1.skill.history.dialog_act_name.DialogAct.
- method), 406

 to_str() (ask_smapi_model.v1.skill.certification.list_certifications()rdsplon_serulipitGnordfileathosksRdsipton_serulipitGnordfi
- method), 407 method), 418
 to_str() (ask_smapi_model.v1.skill.certification.publication_stribute.PasklisartipiEnibabed.v1.skill.history.intent_confidence_bin.Intent
- method), 408

 method), 419

 to_str() (ask_smapi_model.v1.skill.certification.review_tracking_(nf(aRkviemaffriarkintellafo.skill.history.intent_request.IntentRequest
- method), 408

 method), 419

 to_str() (ask_smapi_model.v1.skill.certification.review_tracking_infoaskinsmapi_ReviewTilaskihlglisfoSy.imnteouty_request_locales.Inten
- method), 409

 method), 420

 to_str() (ask_smapi_model.v1.skill.create_skill_request.CoreateSkillReghestmapi_model.v1.skill.history.intent_requests.IntentRequest
- method), 517

 method), 421
- to_str() (ask_smapi_model.v1.skill.create_skill_response.CreateSkill_Rskpomsepi_model.v1.skill.history.interaction_type.Interaction/method), 518 method), 421
- to_str() (ask_smapi_model.v1.skill.create_skill_with_packaget_requestsCreateskill*NiltHRdckkideResquestlocale_in_query.LocaleInQuestsCreateskideResquestlocale_in_query.LocaleInQuesthod), 518

 method), 421

 to_str() (ask_smapi_model.v1.skill.evaluations.confirmationsstatus_type_compirmationslydestStatus_type_story.publication_status.Publicati
- method), 410 method), 422
 to_str() (ask_smapi_model.v1.skill.evaluations.dialog_act_Dialog_Act (ask_smapi_model.v1.skill.history.slot.Slot
- to_str() (ask_smapi_model.v1.skill.evaluations.dialog_dc6_PtdlvgAct (ask_smapi_model.v1.skill.history.slot.Slot method), 410 method), 422
- to_str() (ask_smapi_model.v1.skill.evaluations.dialog_aco_tepterDialarsAcsTryppei_model.v1.skill.history.sort_field_for_intent_reques method), 410 method), 423
- to_str() (ask_smapi_model.v1.skill.evaluations.intent.Intent_str() (ask_smapi_model.v1.skill.image_attributes.ImageAttributes method), 411 method), 520
- to_str() (ask_smapi_model.v1.skill.evaluations.multi_tutro_MsultiT(u)r(ask_smapi_model.v1.skill.image_dimension.ImageDimension method), 411 method), 520
- to_str() (ask_smapi_model.v1.skill.evaluations.profile_rdto_requests, RasfilesVlaftiegomedel.v1.skill.image_size.ImageSize method), 412 method), 520
- to_str() (ask_smapi_model.v1.skill.evaluations.profile_nlm_response(RshfistenshlpiRenspobelse1.skill.image_size_unit.ImageSizeUnit method), 412 method), 521
- to_str() (ask_smapi_model.v1.skill.evaluations.profile_rtlro_swtertext_(instensible policytext) (instensible policytext)
- to_str() (ask_smapi_model.v1.skill.evaluations.resolutions_per_rainthaskysinterpis_RandelutibnskHeriAuthor_itrekpennsse_skill.ImportRespo

- method), 522 method), 441
- to_str() (ask_smapi_model.v1.skill.instance.Instance to_str() (ask_smapi_model.v1.skill.interaction_model.is_less_than.IsLemethod), 522 method), 442
- to_str() (ask_smapi_model.v1.skill.interaction_model.catalogstrata
- to_str() (ask_smapi_model.v1.skill.interaction_model.catologicatalogiskninya@italodEhniltyskill.interaction_model.is_not_in_duration_method), 424 method), 443
- to_str() (ask_smapi_model.v1.skill.interaction_model.catologstrata)dashpsmtdpitanloglelpult.skill.interaction_model.is_not_in_set.IsN method), 424 method), 443
- to_str() (ask_smapi_model.v1.skill.interaction_model.catologtcataldaskemnapiahogdkehv1.skill.interaction_model.language_model. method), 425 method), 444
- to_str() (ask_smapi_model.v1.skill.interaction_model.cata<u>log</u>tcatalogstcat
- to_str() (ask_smapi_model.v1.skill.interaction_model.catalogstratalogstratus\text{pia_tanlogstratus}kill.interaction_model.prompt_items.Prompt_items
- to_str() (ask_smapi_model.v1.skill.interaction_model.catalogstrata
- to_str() (ask_smapi_model.v1.skill.interaction_model.catalogstdeftnitionsk_danapDefinoidialnDaskill.interaction_model.slot_definition.Sl method), 427 method), 445
- to_str() (ask_smapi_model.v1.skill.interaction_model.cotologtlast).uprdkitesimeapiestddesltUpskilleReterestion_model.slot_type.SlotType.method), 427

 method), 446
- to_str() (ask_smapi_model.v1.skill.interaction_model.catologilist()catalogsmespionnedelsvCakilbyResposioe_model.slot_validation.S method), 428 method), 447
- to_str() (ask_smapi_model.v1.skill.interaction_model.cotologtupdateastpUpdateasduestill.interaction_model.value_catalog.Vamethod), 428

 method), 448
- to_str() (ask_smapi_model.v1.skill.interaction_model.catalogtwa(ive(askpyshing)GanadagNaluxNillpipHeraction_model.value_supplier.Vamethod), 434 method), 448
- to_str() (ask_smapi_model.v1.skill.interaction_model.dælegastron_(str(atdgys_nypri_DebelgdtvdnsStillLitege*Teyprion_model.version.catalog_method), 434

 method), 429
- to_str() (ask_smapi_model.v1.skill.interaction_model.diabogsDialog(ask_smapi_model.v1.skill.interaction_model.version.catalog_method), 435 method), 429
- to_str() (ask_smapi_model.v1.skill.interaction_model.diabogs_interpts(diskalsoghpie_mmodel.v1.skill.interaction_model.version.catalog_method), 435 method), 430
- to_str() (ask_smapi_model.v1.skill.interaction_model.dialogs_intents(asko_smptspP_model.v1.skill.interaction_model.version.input_somethod), 436 method), 430
- to_str() (ask_smapi_model.v1.skill.interaction_model.diabogs_prothp(s.skill.interaction_model.version.links.Lin. method), 436 method), 431
- to_str() (ask_smapi_model.v1.skill.interaction_model.diabogs_klot()iteask_DinlogiShooklehns1.skill.interaction_model.version.list_responsethod), 437 method), 431
- to_str() (ask_smapi_model.v1.skill.interaction_model.httso_enstity_(resalstion_apiatohoddasEnstity|RestellationidM_anobdel.version.value_sca method), 438 method), 432
- to_str() (ask_smapi_model.v1.skill.interaction_model.intent.shrtent) (ask_smapi_model.v1.skill.interaction_model.version.value_sc method), 438 method), 432
- to_str() (ask_smapi_model.v1.skill.interaction_model.interaction_model.interaction_model.version_model.version_model.version_wethod), 439

 method), 433
- to_str() (ask_smapi_model.v1.skill.interaction_model.interaction()m(akkl_swhapinantakelactiokilM.indkelSarteoma_model.version.version_imethod), 439

 method), 433
- to_str() (ask_smapi_model.v1.skill.interaction_model.ist_greater_thdasks_Graatir_Thadel.v1.skill.interface_definition.InterfaceDefinition.definition.interfaceDefiniti
- to_str() (ask_smapi_model.v1.skill.interaction_model.ist_greater_thansbrsverqupil_modeGreateilT.htmGaEequindfent.InterfaceIntent method), 440 method), 523
- to_str() (ask_smapi_model.v1.skill.interaction_model.ist_in_dttratipn(dsltn&maptionodel.v1.skill.last_update_request.LastUpdateReq method), 441 method), 524
- to_str() (ask_smapi_model.v1.skill.interaction_model.ist<u>in_set</u>.dlnSetsk_smapi_model.v1.skill.list_skill_response.ListSkillRespons

method), 525 method), 474

method), 462

- to_str() (ask_smapi_model.v1.skill.manifest.alexa_for_businests_apistakkexmboppBusindestsApiskill.manifest.health_apis.HealthApis method), 449

 method), 475
- to_str() (ask_smapi_model.v1.skill.manifest.alexa_for_businestsr_in)textsr_i
- to_str() (ask_smapi_model.v1.skill.manifest.alexa_presentationr_apl_(inskerfunepA_lemonPelesenskillomAplfestehfendeh_protocol_version.H method), 450 method), 476
- to_str() (ask_smapi_model.v1.skill.manifest.audio_interfacesAndioIntersfacesmapi_model.v1.skill.manifest.health_request.HealthRe
- to_str() (ask_smapi_model.v1.skill.manifest.connectionst.6omstect(on(ask_smapi_model.v1.skill.manifest.house_hold_list.HouseHol method), 451 method), 477
- to_str() (ask_smapi_model.v1.skill.manifest.connectionst_payload, ConstentionspPayload.v1.skill.manifest.interface.Interface method), 451 method), 478
- to_str() (ask_smapi_model.v1.skill.manifest.critical_data_hastdling.CrikicantOpiaHaddling.skill.manifest.lambda_endpoint.Lambda.

 method), 478

 method), 478
- to_str() (ask_smapi_model.v1.skill.manifest.custom_apis.Custom_Apiask_smapi_model.v1.skill.manifest.lambda_region.LambdaRe, method), 452 method), 478
- to_str() (ask_smapi_model.v1.skill.manifest.custom_cornnections.Cuktokn@mupictionsel.v1.skill.manifest.localized_flash_briefing_inmethod), 453 method), 479
- to_str() (ask_smapi_model.v1.skill.manifest.custom_interfacestCasto(nalsktestfaacpi_model.v1.skill.manifest.localized_flash_briefing_inmethod), 453 method), 480
- to_str() (ask_smapi_model.v1.skill.manifest.data_protections_providensharmiptentialeP.mdvidleil.manifest.localized_health_info.Localized_method), 454

 method), 480
- to_str() (ask_smapi_model.v1.skill.manifest.display_interfacetDisplayshtesnfuqri_model.v1.skill.manifest.localized_music_info.Localized
- to_str() (ask_smapi_model.v1.skill.manifest.display_interfacet_aptnl(ask_sionalpi_splaylehtelfskidl\poonl\feetigestionanifest_gadget_support.l\ method), 481

 to_str() (ask_smapi_model.v1.skill.manifest.display_interfacet_total_lask_smapi_interfacet_total
- to_str() (ask_smapi_model.v1.skill.manifest.display_interfacse_tremp[attek_vensipin_mixthelignetTheifest.atalkicsiahias.MusicAlias method), 455 method), 482
- to_str() (ask_smapi_model.v1.skill.manifest.distribution<u>t_cou</u>thtnies). **Disski_lswitapiConordlerl.esl**.skill.manifest.music_apis.MusicApis method), 462 method), 483
- method), 462 method), 483
 to_str() (ask_smapi_model.v1.skill.manifest.distribution<u>t_model.Dls</u>tr(<u>bskicmMpile</u>nodel.v1.skill.manifest.music_capability.MusicCa
- to_str() (ask_smapi_model.v1.skill.manifest.event_name.EventName(ask_smapi_model.v1.skill.manifest.music_content_name.Musi_method), 463 method), 483

method), 483

- to_str() (ask_smapi_model.v1.skill.manifest.event_name_oypestEventNashestryppi_model.v1.skill.manifest.music_content_type.Music method), 471 method), 484
- to_str() (ask_smapi_model.v1.skill.manifest.event_publicotionts:Even(tBkb\binations\cdots) to the structure of the structure
- to_str() (ask_smapi_model.v1.skill.manifest.flash_briefing_aptscRl\usblaskiefinggApinodel.v1.skill.manifest.music_interfaces.MusicInterfaces.M
- to_str() (ask_smapi_model.v1.skill.manifest.flash_briefing_content_(yqsk_FlashpB_niefing)Gdn\$killTiyypenifest.music_request.MusicRequest.music_wethod), 472 method), 485
- to_str() (ask_smapi_model.v1.skill.manifest.flash_briefing_gænæ.fflashBriefingjGenordel.v1.skill.manifest.music_wordmark.MusicWomethod), 473

 method), 485
- to_str() (ask_smapi_model.v1.skill.manifest.flash_briefing_update) f(askuesmonpilaskoldellefihgkildateHifestupenomission_items.Permissi method), 473 method), 486
- to_str() (ask_smapi_model.v1.skill.manifest.gadget_controller_interfask_GoodgetGoodebillerskildenfuveifest.permission_name.Permissi
 method), 473
 method), 487
- to_str() (ask_smapi_model.v1.skill.manifest.gadget_support.Gadget_support.Gadget_support.api_model.v1.skill.manifest.region.Region method), 474 method), 487
- to_str() (ask_smapi_model.v1.skill.manifest.game_engiruo_irsterface.(Gskn_sEmagiin_alkoteafadeskill.manifest.request.Request method), 474 method), 488
- to_str() (ask_smapi_model.v1.skill.manifest.health_alia**x.blesithA(l)a(**ask_smapi_model.v1.skill.manifest.request_name.RequestNan

method), 499

method), 500

- method), 488 method), 503
- to_str() (ask_smapi_model.v1.skill.manifest.skill_m
- to_str() (ask_smapi_model.v1.skill.manifest.skill_manifest_aptisxSkillMskn_istartpipinodel.v1.skill.metrics.stage_for_metric.StageForMethod), 490

 method), 504
- to_str() (ask_smapi_model.v1.skill.manifest.skill_manifest_csutstom)_(assk_Skill)fiamifeettCu3tokillqskivate.accept_status.AcceptStatus method), 490 method), 505
- to_str() (ask_smapi_model.v1.skill.manifest.skill_manifest_extdpoint(&kkll_Mannifest_strEnddpointskill.private.list_private_distribution_accommethod), 491

 method), 505
- to_str() (ask_smapi_model.v1.skill.manifest.skill_manifest_exted@pe(&kkll_Manapfe_strEndeel@p.ekill.private.private_distribution_account method), 491 method), 506
- to_str() (ask_smapi_model.v1.skill.manifest.skill_manifest_extents, \$K\dsM_csmifest_Expents\). \$\(\sigma\). \$
- to_str() (ask_smapi_model.v1.skill.manifest.skill_manifest_localited_privacyAnd0 method), 492 method), 525
- to_str() (ask_smapi_model.v1.skill.manifest.skill_manifest_localited_localit
- to_str() (ask_smapi_model.v1.skill.manifest.skill_manifest_prtvacy_(ask_smaplianod&kill.MailifestAniveciyAppalCostaplianResourceImmethod), 494

 method), 526
- to_str() (ask_smapi_model.v1.skill.manifest.skill_manifesto_publish)in(gsknfomapiti_modklllMahilfleseBoublish_istglufoRocationeStatus method), 496 method), 527
- to_str() (ask_smapi_model.v1.skill.manifest.smart_home_apist.Smart(Hskm_srhpipi_model.v1.skill.response_status.ResponseStatus method), 496 method), 527
- to_str() (ask_smapi_model.v1.skill.manifest.smart_home_oprotocol)S(askt_HomepProtolallv1.skill.simulations.alexa_execution_info.A_method), 497

 method), 506
- to_str() (ask_smapi_model.v1.skill.manifest.ssl_certificate_tspecSSL(asktifimatpType)del.v1.skill.simulations.alexa_response.AlexaRemethod), 497 method), 507
 to_str() (ask_smapi_model.v1.skill.manifest.up_channel_items. b/pChash_eshhepiis_model.v1.skill.simulations.alexa_response_content

method), 508

method), 509

- method), 497

 method), 507

 to str() (ask smapi model v1 skill manifest version Vertion str() (ask smapi model v1 skill simulations device Device
- to_str() (ask_smapi_model.v1.skill.manifest.version.Verxion_str() (ask_smapi_model.v1.skill.simulations.device.Device method), 498 method), 507
- to_str() (ask_smapi_model.v1.skill.manifest.video_apis.\(\frac{Video}{Apis}\) (ask_smapi_model.v1.skill.simulations.input.Input method), 498 \(method), 508\)
- method), 498 method), 508
 to_str() (ask_smapi_model.v1.skill.manifest.video_apis_tlocate.VilleoAskiskmapie_model.v1.skill.simulations.invocation_request.Invo

to_str() (ask_smapi_model.v1.skill.manifest.video_app_tinterstace.(VideoApphhapirfacedel.v1.skill.simulations.invocation_response.Inv

- to_str() (ask_smapi_model.v1.skill.manifest.video_catal<mark>og_infocVi}le(a6katshogfinf</mark>model.v1.skill.simulations.metrics.Metrics method), 499 method), 509
- to_str() (ask_smapi_model.v1.skill.manifest.video_country_istfaxVideasko_usmtrylinfmodel.v1.skill.simulations.session.Session method), 500 method), 509
- method), 500 method), 509
 to_str() (ask_smapi_model.v1.skill.manifest.video_regionNideoRegionsk_smapi_model.v1.skill.simulations.session_mode.SessionM
- to_str() (ask_smapi_model.v1.skill.manifest.viewport_mode_\text{NtewportModemapi_model.v1.skill.simulations.simulation_result.Simul method)}, 501 method), 510
- to_str() (ask_smapi_model.v1.skill.manifest.viewport_shapeshawp)o(taskapmapi_model.v1.skill.simulations.simulations_api_reques method), 501 method), 510
- to_str() (ask_smapi_model.v1.skill.manifest.viewport_specification). (iesk_psrtSpic_aifadellond.skill.simulations.simulations_api_respondent), 502 method), 511
- to_str() (ask_smapi_model.v1.skill.metrics.get_metric_data_sresponsasketsMetpic_DataResponsetsEsimulations.simulations_api_responsethod), 502 method), 511
- to_str() (ask_smapi_model.v1.skill.metrics.metric.Metrito_str() (ask_smapi_model.v1.skill.skill_interaction_model.SkillInteraction_method), 503 method), 528
- to_str() (ask_smapi_model.v1.skill.metrics.period.Periodo_str() (ask_smapi_model.v1.skill.skill_interaction_model_status.Skill

| | method), 528 | | attribute), 503 | | |
|--------|---|--|--|--|------------------------------------|
| to_str | () (ask_smapi_model.v1.skill.skill_si | tatus.SkillStatusotalS | | _model.v1.skill.me | trics.metric.Metric |
| | method), 529 | | attribute), 503 | | |
| to_str | () (ask_smapi_model.v1.skill.skill_st | ummary.SkillS uotm a r y | | ipi_model.v1.skill.i | metrics.metric.Metric |
| | method), 530 | · -61:110: / | attribute), 503 | | |
| to_str | () (ask_smapi_model.v1.skill.skill_st method), 530 | ummary_apis:SkullSum | ohassyApus k_sdk_model 230 | .interfaces.viewpo | rt.touch), |
| to_str | () (ask_smapi_model.v1.skill.ssl_cen | tificate_paylo ud.&&k C | enrtifpi<u>a</u>taBdylo ddisp.dis | stribution_countrie | es.DistributionCountries |
| | method), 531 | | attribute), 377 | | |
| to_str | () (ask_smapi_model.v1.skill.standa | rdized_error.SI@n@wk <u>di</u> | | ianifest.distributio | n_countries.Distribution(|
| | method), 531 | | attribute), 461 | | |
| to_str | () (ask_smapi_model.v1.skill.standa | rdized_error_Toxtensta | | | in |
| | method), 532 | C | ask_sdk_model.service | es.monetization.tra | ansactions), |
| to_str | • | | 273 | (-1 | · |
| | method), 533 | Transf | | (class | in |
| to_str | () (ask_smapi_model.v1.skill.submit method), 533 | _skui_jor_cernjicanon | <u>, arquark.S</u> noaatsniarjo 129 | nce e.c.i ęccapoerseege | tasi n.ntmi.transjormer), |
| to str | () (ask_smapi_model.v1.skill.update | skill with pāckages fr | eanrest:UprabateSkillWith | nPack algeR equest | in |
| | method), 533 | | | | ation.html.transformer_ty |
| to_str | () (ask_smapi_model.v1.skill.upload | _response.UploadResp | v | 1 | y — y |
| _ | method), 534 | | ormProperty | (class | in |
| to_str | () (ask_smapi_model.v1.skill.validat | | = = | , | ation.apl.transform_prope |
| | method), 534 | | 111 | • | 1 |
| to_str | () (ask_smapi_model.v1.skill.validat | tion_details.Validatj <mark>o</mark> p | Detalilss in ask_sdk_mo | del.services.remina | der_management.trigger) |
| | method), 537 | | 291 | | |
| to_str | () (ask_smapi_model.v1.skill.validat | tion_endpoint. Validati e | onEu <i>e</i> pointype | (class | in |
| | method), 537 | | | es.gadget_controll | er.trigger_event_type), |
| to_str | () (ask_smapi_model.v1.skill.validat | tion_feature.Validation | Feature | | |
| | method), 538 | Trigge | | (class | in |
| to_str | () (ask_smapi_model.v1.skill.validat | tions.response_validati | oms R <u>e</u> sopko <u>n</u> moVdeli.dation | es.reminder_mana | gement.trigger_type), |
| | method), 512 | | 292 | | |
| to_str | () (ask_smapi_model.v1.skill.validat | tions.response <u>T</u> vadistati | | ls <i>eKillidati</i> nojelenpsl <u>e</u> | _tcentė ficate_type.SSLCert |
| | method), 513 | | attribute), 497 | | |
| to_str | () (ask_smapi_model.v1.skill.validat | tions.response <u>T</u> Ta liask ti | | ita kitria in Srt<u>a</u> tuo suntrie | s.DistributionCountries |
| | method), 513 | | attribute), 377 | | |
| to_str | () (ask_smapi_model.v1.skill.validat | tions.validatio u<u>x (</u>apsi<u>k r</u> | | Requifesst .distribution | n_countries.Distribution |
| | method), 513 | | attribute), 461 | | |
| to_str | () (ask_smapi_model.v1.skill.validat | tions.validatio ī tī <u>s (apsik r</u> | = = | il bredpr<u>n</u>ma nagemer | nt.recurrence_day.Recuri |
| | method), 514 | | attribute), 283 | | 7 7 |
| to_str | () (ask_smapi_model.v1.skill.validat | tions.validatio <u>bs_apask</u> | | vouesvAgouist a ryootie sleHo | ækultat- |
| | method), 514 | | tribute), 229 | · · · · · · · · · · · · · · · · · · · | . D |
| to_str | () (ask_smapi_model.v1.skill.validat | tions.validatio <mark>ns<u> </u></mark> | | HYTHSIAIJOOM <u>E</u> SJOOIMSEIS | tsulusstribution Countries |
| | method), 515 | ann maan aat Witteld Jacob II | attribute), 377 | anifort distuibution | u accentui as Distuibecti and |
| to_str | () (ask_smapi_model.v1.skill.withdr method), 538 | aw_request.wwna uw r | хацирк 1 moaet.v1.sкии.m attribute), 461 | ianijesi.aistributioi | n_countries.Distribution |
| to str | () (ask_smapi_model.v1.stage_type | StageTyne TV (ask | smapi_model.v1.skill.m | nanifest viewnort v | node ViewnortMode |
| 00_501 | method), 541 | siageType IV (ask_ | attribute), 501 | unijesi.viewpori <u>r</u> i | noue. riewporimoue |
| to str | () (ask_smapi_model.v1.stage_v2_ty | ne StageV2Tymy I.AN | e c | | |
| 0_501 | method), 541 | pe.siage v21ypumin | (ask_sdk_core.utils.vie | ewnort ViewnortPr | rofile |
| to str | () (ask_smapi_model.v1.vendor_max | nagement vendor Vend | | eport. remporti | ~ <i>j</i> ~ |
| | method), 539 | - | DSCAPE_XLARGE | | |
| to str | () (ask_smapi_model.v1.vendor_max | | | ewport.ViewnortPr | rofile |
| | method), 539 | G | attribute), 31 | 1 | J |
| + | nahlamants (ask smani model vl | chill matrice motrio all | * * | | |

```
(ask_sdk_core.utils.viewport.ViewportProfile
                                                                                                                                                                                                                                                                     UPDATE (ask_smapi_model.v1.skill.action.Action at-
                                           attribute), 31
                                                                                                                                                                                                                                                                                                                  tribute), 515
TW (ask smapi model.v1.isp.distribution countries.Distribution to make smapi model.v1.skill.manifest.request name.RequestName
                                                                                                                                                                                                                                                                                                                  attribute), 488
                                            attribute), 377
TW (ask_smapi_model.v1.skill.manifest.distribution_countriesp\(\text{Distribution}\)\(\text{Counttrie}\)\(\text{tibution}\)\(Counttrie\)\(\text{on}\)\(Counttrie\)\(\text{on}\)\(Counttrie\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(Count\)\(\text{on}\)\(Count\)\(\text{on}\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Count\)\(Coun
                                           attribute), 461
                                                                                                                                                                                                                                                                                                                 (ask smapi model.services.skill management.skill management
TypedViewportState
                                                                                                                                                                                                                                                                                                                 method), 359
                                                                                                                                                                       (class
                                                                                                                                                                                                                                                   in
                                           ask_sdk_model.interfaces.viewport.typed_viewport.pxtate)=_beta_test_v1()
                                                                                                                                                                                                                                                                                                                  (ask_smapi_model.services.skill_management.skill_management_
TZ (ask_smapi_model.v1.isp.distribution_countries.DistributionCountmiethod), 359
                                           attribute), 377
                                                                                                                                                                                                                                                                     update_interaction_model_catalog_v1()
TZ (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributish@maptriesodel.services.skill_management.skill_management
                                           attribute), 461
                                                                                                                                                                                                                                                                                                                 method), 359
                                                                                                                                                                                                                                                                     update_interaction_model_catalog_version_v1()
U
                                                                                                                                                                                                                                                                                                                  (ask_smapi_model.services.skill_management.skill_management_
UA (ask_smapi_model.v1.isp.distribution_countries.DistributionCountmethod), 360
                                                                                                                                                                                                                                                                     update_interaction_model_slot_type_v1()
                                           attribute), 377
\verb"UA" (ask\_smapi\_model.v1.skill.manifest.distribution\_countries. Distributish \verb"Smapi-impodel.services.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.skill\_management.ski
                                                                                                                                                                                                                                                                                                                 method), 360
                                            attribute), 461
UG (ask_smapi_model.v1.isp.distribution_countries.Distribution_countries.Distribution_tender_slot_type_version_v1()
                                           attribute), 377
                                                                                                                                                                                                                                                                                                                 (ask_smapi_model.services.skill_management.skill_management]
UG (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributetheount fles
                                                                                                                                                                                                                                                                     update_isp_for_product_v1()
                                           attribute), 461
\verb|UM| (ask\_smapi\_model.v1. isp. distribution\_countries. DistributionCountries. Distributi
                                                                                                                                                                                                                                                                                                                 method), 360
                                           attribute), 377
UM (ask_smapi_model.v1.skill.manifest.distribution_countriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistributionCountriesDistribution
                                                                                                                                                                                                                                                                                                                 method), 260
                                           attribute), 461
UNAVAILABLE (ask smapi model.v1.catalog.upload.file uppoint status.FileUptondStatus
                                                                                                                                                                                                                                                                                                                  (ask_sdk_model.services.list_management.list_management_serv
                                           attribute), 363
                                                                                                                                                                                                                                                                                                                  method), 260
UNEXPECTED EMPTY OBJECT
                                           (ask_smapi_model.v1.skill.standardized_error_code.$natadardizedErlorCode
                                                                                                                                                                                                                                                                                                                 (ask_sdk_model.services.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.reminder_management.re
                                           attribute), 532
                                                                                                                                                                                                                                                                                                                 method), 286
UNEXPECTED PROPERTY
                                            (ask_smapi_model.v1.skill.standardized_error_code.stantardizedErrorCodeest_v1()
                                                                                                                                                                                                                                                                                                                  (ask_smapi_model.services.skill_management.skill_management
                                           attribute), 532
Unicast (ask_sdk_model.services.proactive_events.relevant_audienterthyde)RelevantAudienceType
                                                                                                                                                                                                                                                                     UpdateBehavior
                                                                                                                                                                                                                                                                                                                                                                                                                                (class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        in
                                            attribute), 277
\verb"uniqueCustomers" (ask\_smapi\_model.v1.skill.metrics.metric.Metr@sk\_sdk\_model.er.dynamic.update\_behavior), \\
                                           attribute), 503
\verb"UNKNOWN" (ask\_sdk\_model.interfaces.geolocation.access. Actes state \verb"InSkillProductRequest") at the product \verb"Request" and \verb"InskillProductRequest" and "InskillProductRequest" and "InskillProductRe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (class
                                                                                                                                                                                                                                                                                                                ask smapi model.v1.isp.update in skill product request),
                                           attribute), 206
UNKNOWN (ask_smapi_model.v1.skill.manifest.flash_briefing_update_frequency.FlashBriefingUpdateFrequency
                                                                                                                                                                                                                                                                      UpdateListItemRequest
                                                                                                                                                                                                                                                                                                                                                                                                                                                       (class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       in
\verb"UNKNOWN_ERROR" (ask\_sdk\_model.services.ups.error\_code.ErrorCode\&k\_sdk\_model.services.list\_management.update\_list\_item\_requestion. The property of the prop
                                           attribute), 295
                                                                                                                                                                                                                                                                     UpdateListRequest
                                                                                                                                                                                                                                                                                                                                                                                                                                          (class
UNKNOWN VIEWPORT PROFILE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        in
                                                                                                                                                                                                                                                                                                                  ask_sdk_model.services.list_management.update_list_request),
                                            (ask sdk core.utils.viewport.ViewportProfile
                                           attribute), 31
                                                                                                                                                                                                                                                                                                                                                                                                                            (class
up (ask_sdk_model.services.game_engine.input_event_actionPfpteRpalecontActionType
                                                                                                                                                                                                                                                                                                                  ask_smapi_model.v1.skill.interaction_model.catalog.update_requ
                                          attribute), 245
                                                                                                                                                                                                                                                                                                                  428
UpChannelItems
                                                                                                                                                          (class
                                           ask_smapi_model.v1.skill.manifest.up_channel_iteHps].ateSkillWithPackageRequest
                                                                                                                                                                                                                                                                                                                 ask smapi model.v1.skill.update skill with package request),
```

533

```
UPLOAD (ask_smapi_model.v1.catalog.upload.ingestion_step_name.IngestionStepName
              attribute), 364
                                                                                        ValidationDetails
                                                                                                                                               (class
                                                                                                                                                                         in
                                                                                                      ask_smapi_model.v1.skill.validation_details),
UploadIngestionStep
              ask_smapi_model.v1.catalog.upload.upload_ingestion_step) 535
                                                                                        ValidationEndpoint
                                                                                                                                                (class
UploadResponse
                                                                                                      ask smapi model.v1.skill.validation endpoint),
                                                   (class
                                                                                 in
              ask smapi model.v1.skill.upload response),
                                                                                                       537
                                                                                        ValidationFeature
                                                                                                                                               (class
                                                                                                                                                                         in
UploadStatus
                                                 (class
                                                                                 in
                                                                                                       ask smapi model.v1.skill.validation feature),
              ask_smapi_model.v1.catalog.upload.upload_status),
                                                                                                       537
                                                                                        ValidationsApiRequest
                                                                                                                                                   (class
                                                                                                                                                                         in
                                                                                                       ask_smapi_model.v1.skill.validations.validations_api_request),
UpsServiceClient
                                                      (class
                                                                                 in
              ask_sdk_model.services.ups.ups_service_client),
                                                                                        ValidationsApiResponse
                                                                                                                                                     (class
                                                                                                                                                                         in
US (ask_smapi_model.v1.isp.distribution_countries.DistributionCountriks_smapi_model.v1.skill.validations.validations_api_response),
              attribute), 377
US (ask_smapi_model.v1.skill.manifest.distribution_countriess_Distribution_Go.putRiess_ponseResult
                                                                                                                                                           (class
                                                                                                      ask smapi_model.v1.skill.validations.validations_api_response_i
              attribute), 461
          (ask_smapi_model.v1.isp.currency.Currency at-
              tribute), 370
                                                                                        ValidationsApiResponseStatus
                                                                                                                                                           (class
User (class in ask_sdk_model.user), 332
                                                                                                      ask_smapi_model.v1.skill.validations.validations_api_response_s
user id keygen()
                                                                         module
              ask_sdk_s3.object_keygen), 52
                                                                                        Value (class in ask_sdk_model.slu.entityresolution.value),
user id partition keygen()
                                                                         module
                                                                                                       305
                                                               (in
              ask_sdk_dynamodb.partition_keygen), 37
                                                                                       ValueCatalog
                                                                                                                                         (class
                                                                                                                                                                         in
USER_INITIATED (ask_sdk_model.session_ended_reason.SessionEmske_dReapsio_model.v1.skill.interaction_model.value_catalog),
              attribute), 328
                                                                                                       447
userEndedSessions
                                                                                                                                        (class
                                                                                        ValueSchema
              (ask_smapi_model.v1.skill.metrics.metric.Metric
                                                                                                      ask_smapi_model.v1.skill.interaction_model.version.value_schen
              attribute), 503
                                                                                                       431
UserEvent
                                              (class
                                                                                 in ValueSchemaName
                                                                                                                                             (class
              ask\_sdk\_model. interfaces. a lexa. presentation. apl. user\_event \c with a sk\_smapi\_model. v1. skill. interaction\_model. version. value\_schende \c with a sk\_sdk\_model. v1. skill. interaction\_model. version. value\_schende \c with a skill. value\_schende \c with a skill value\_schende \c with a 
              111
                                                                                                       432
                                              (class
                                                                                 in ValueSupplier
                                                                                                                                           (class
UserEvent
              ask_sdk_model.interfaces.alexa.presentation.aplt.user_event)sk_smapi_model.v1.skill.interaction_model.value_supplier),
utteranceText (ask smapi model.vl.skill.history.sort fiveld vfetN interprete request type.SortfixldsForIntentRequesitType
              attribute), 423
                                                                                                       ask_sdk_model.slu.entityresolution.value_wrapper),
UY (ask smapi model.v1.isp.distribution countries.DistributionCountries
                                                                                       VC (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
              attribute), 377
UY (ask smapi model.v1.skill.manifest.distribution countries.Distributioribuoe)ntriles
              attribute), 461
                                                                                       VC (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
UZ (ask smapi model.v1.isp.distribution countries.DistributionCountriesibute), 461
              attribute), 377
                                                                                       VE (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
UZ (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributioributioriblioe)nftiles
              attribute), 461
                                                                                       VE (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
                                                                                                      attribute), 461
V
                                                                                       Vendor (class in ask_smapi_model.v1.vendor_management.vendor),
VA (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
                                                                                        Vendors (class in ask_smapi_model.v1.vendor_management.vendors),
              attribute), 377
VA (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
                                                                                        VerificationException, 44
              attribute), 461
                                                                                       verifiers (django_ask_sdk.skill_adapter.SkillAdapter
ValidationDataTypes
                                                         (class
                                                                                                       attribute), 49
              ask_smapi_model.v1.skill.validation_data_types),
```

```
verify() (ask_sdk_webservice_support.verifier.AbstractVerifier
                                                                                                                                                  500
                    method), 44
                                                                                                                             VideoItem
                                                                                                                                                                                               (class
                                                                                                                                                                                                                                                 in
verify() (ask sdk webservice support.verifier.RequestVerifier
                                                                                                                                                  ask sdk model.interfaces.videoapp.video item),
                    method), 44
verify() (ask_sdk_webservice_support.verifier.TimestampYerefacegion
                                                                                                                                                                                                  (class
                    method), 45
                                                                                                                                                  ask_smapi_model.v1.skill.manifest.video_region),
verify_request_and_dispatch()
                     (ask_sdk_webservice_support.webservice_handleNWebsetviceSkitelHandler
                                                                                                                                                                                                  (class
                    method), 46
                                                                                                                                                  ask_sdk_model.interfaces.alexa.presentation.apl.video_source),
verify_signature(django_ask_sdk.skill_adapter.SkillAdapter 112
                    attribute), 49
                                                                                                                             ViewportConfiguration
                                                                                                                                                                                                                  (class
                                                                                                                                                                                                                                                 in
verify_timestamp(django_ask_sdk.skill_adapter.SkillAdapter ask_sdk_model.interfaces.viewport.apl.viewport_configuration),
                    attribute), 49
Version (class in ask_smapi_model.v1.skill.manifest.versivni)ewportMode
                                                                                                                                                                                                   (class
                                                                                                                                                  ask_smapi_model.v1.skill.manifest.viewport_mode),
VersionData
                                                                     (class
                                                                                                                    in
                                                                                                                                                  500
                    ask_smapi_model.v1.skill.interaction_model.versi\(\vertar\)i_\(\vertar\) \(\vertar\) ile
                                                                                                                                                                                                        (class
                                                                                                                                                                                                                                                 in
                                                                                                                                                  ask sdk core.utils.viewport), 30
                                                                                                                    in ViewportProfile
                                                                                                                                                                                                        (class
VersionItems
                                                                      (class
                                                                                                                                                                                                                                                 in
                    ask_smapi_model.v1.skill.interaction_model.version.version<u>usike_msh},</u> model.interfaces.viewport.aplt.viewport_profile),
vertical (ask_sdk_model.interfaces.alexa.presentation.apli@wpponev8heisible_on_screen_s@hallsable_tag_direction_enum.Compone
                                                                                                                                                  ask_smapi_model.v1.skill.manifest.viewport_shape),
                     attribute), 92
VG (ask smapi model.v1.isp.distribution countries.DistributionCountries
                                                                                                                             ViewportSize
                    attribute), 377
                                                                                                                                                                                                   (class
                                                                                                                                                                                                                                                 in
VG (ask_smapi_model.v1.skill.manifest.distribution_countries.Distributsion Clkumtridel.interfaces.viewport.size.viewport_size),
                    attribute), 461
VI (ask_smapi_model.v1.isp.distribution_countries.Distribution@Countriespecification
                                                                                                                                                                                                                  (class
                    attribute), 377
                                                                                                                                                  ask_smapi_model.v1.skill.manifest.viewport_specification),
VI (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
                    attribute), 461
                                                                                                                             ViewportState
                                                                                                                                                                                                     (class
VIDEO (ask_smapi_model.v1.isp.tax_information_category.TaxInformastionstionstionsel.interfaces.viewport.viewport_state),
                    attribute), 390
                                                                                                                                                  231
video (ask_smapi_model.v1.skill_summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\summary_apis.Skill\
                                                                                                                                                                                                     (class
                                                                                                                                                                                                                                                 in
                     attribute), 530
                                                                                                                                                  ask sdk model.interfaces.viewport.viewport video),
Video (class in ask sdk model.interfaces.viewport.viewport state villed),
                    232
                                                                                                                             visible (ask sdk model.interfaces.alexa.presentation.apl.align.Align
VideoApis
                                                                  (class
                                                                                                                                                  attribute), 80
                                                                                                                    in
                    ask_smapi_model.v1.skill.manifest.video_apis), VISIBLE (ask_sdk_model.interfaces.display.back_button_behavior.BackBa
                    498
                                                                                                                                                  attribute), 191
VideoApisLocale
                                                                                                                    in VN (ask smapi model.v1.isp.distribution countries.DistributionCountries
                                                                           (class
                    ask\_smapi\_model.v1.skill.manifest.video\_apis\_locale),
                                                                                                                                                  attribute), 377
                                                                                                                             VN (ask smapi model.v1.skill.manifest.distribution countries.Distribution
VideoAppInterface
                                                                                                                                                  attribute), 462
                                                                              (class
                                                                                                                    in
                    ask_sdk_model.interfaces.videoapp_video_app_interf(ask)_smapi_model.v1.isp.distribution_countries.DistributionCountries
                     220
                                                                                                                                                  attribute), 377
                                                                                                                   in VU (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
VideoAppInterface
                                                                              (class
                    ask_smapi_model.v1.skill.manifest.video_app_interface), attribute), 462
                                                                                                                    in W
VideoCatalogInfo
                                                                             (class
                    ask\_smapi\_model.v1.skill.manifest.video\_catalog\_\underline{inf} \\ Qask\_sdk\_model.services.reminder\_management.recurrence\_day. Recurrence\_day. \\ R
                                                                                                                                                  attribute), 283
VideoCountryInfo
                                                                             (class
                                                                                                                    in WebserviceSkillHandler
                                                                                                                                                                                                                   (class
                                                                                                                                                                                                                                                 in
```

ask_sdk_webservice_support.webservice_handler),

ask_smapi_model.v1.skill.manifest.video_country_info),

```
45
                                                         YT (ask smapi model.v1.skill.manifest.distribution countries.Distribution
WEBVTT (ask sdk model.interfaces.audioplayer.caption type.Captional symbute), 462
         attribute), 164
WEEKLY (ask_sdk_model.services.reminder_management.recurrence_freq.RecurrenceFreq
         attribute), 283
                                                         ZA (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
WEEKLY (ask_smapi_model.v1.skill.manifest.flash_briefing_update_fragwangy,FlashBriefingUpdateFrequency
         attribute), 473
                                                         ZA (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionQ
WF (ask_smapi_model.v1.isp.distribution_countries.DistributionCountriesbute), 462
         attribute), 377
                                                         ZM(ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
WF (ask_smapi_model.v1.skill.manifest.distribution_countries.Distribution_factories)
         attribute), 462
                                                         ZM(ask smapi model.v1.skill.manifest.distribution countries.Distribution
Wildcard (ask_smapi_model.v1.skill.manifest.ssl_certificate_type.SalfGertificate_Type
         attribute), 497
                                                         ZW (ask smapi model.v1.isp.distribution countries.DistributionCountries
with_traceback() (ask_sdk_webservice_support.verifier.Verification_Exception
         method), 44
                                                         ZW (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionC
withdraw_skill_from_certification_v1()
                                                                   attribute), 462
         (ask_smapi_model.services.skill_management.skill_management_service_client.SkillManagementServiceClient
         method), 361
WithdrawRequest
                                  (class
                                                     in
         ask smapi model.v1.skill.withdraw request),
WS (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
         attribute), 377
WS (ask smapi model.v1.skill.manifest.distribution countries.DistributionCountries
         attribute), 462
X
X LARGE (ask sdk model.interfaces.display.image size.ImageSize
         attribute), 198
X SMALL (ask sdk model.interfaces.display.image size.ImageSize
         attribute), 198
XHIGH (ask_sdk_core.utils.viewport.Density attribute),
XLARGE (ask sdk core.utils.viewport.Size attribute), 30
XLOW (ask sdk core.utils.viewport.Density attribute), 30
XSMALL (ask_sdk_core.utils.viewport.Size attribute), 30
XXHIGH (ask_sdk_core.utils.viewport.Density attribute),
         30
YE (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
         attribute), 377
YE (ask_smapi_model.v1.skill.manifest.distribution_countries.DistributionCountries
         attribute), 462
YEARLY (ask_smapi_model.v1.isp.subscription_payment_frequency.SubscriptionPaymentFrequency
         attribute), 388
YES (ask_sdk_model.canfulfill.can_fulfill_intent_values.CanFulfillIntentValues
         attribute), 67
YES (ask_sdk_model.canfulfill.can_fulfill_slot_values.CanFulfillSlotValues
         attribute), 68
YES (ask_sdk_model.canfulfill.can_understand_slot_values.CanUnderstandSlotValues
         attribute), 68
YT (ask_smapi_model.v1.isp.distribution_countries.DistributionCountries
         attribute), 377
```