Formant SDK Reference

Formant

CONTENTS:

	dex	23
2	Cloud SDK Reference	17
1	Agent SDK Reference	1

AGENT SDK REFERENCE

This section outlines the usage for each method of the Formant Agent SDK.

A client for interacting with the Formant agent. Automatically handles connection and reconnection to the agent. There are methods for:

- Ingesting telemetry datapoints
- · Creating events
- Handling commands
- Ingesting transform frames
- Reading application configuration
- Handling teleop control datapoints

Parameters

- **agent_url** The address of the Formant agent API.
- enable_logging If True, this client will log some information to stdout.
- **ignore_throttled** If True, telemetry datapoint throttle errors will not raise Exceptions. Throttled datapoints are still valid for teleoperation.
- **ignore_unavailable** If True, Formant agent unavailable errors will not raise Exceptions.

get_agent_id()

Gets the Device ID for this device.

Return type

str

post_text(stream, value, tags=None, timestamp=None)

Post a text datapoint to a stream.

- **stream** (str) The name of the Formant stream to post the datapoint on
- **value** (str) The text datapoint value
- tags (Optional[Dict[str, str]]) Tags to include on the posted datapoint

• **timestamp** (Optional[int]) – Unix timestamp in milliseconds for the posted datapoint. Uses the current time by default

Return type

None

```
from formant.sdk.agent.v1 import Client

fclient = Client()
fclient.post_text(
    "example.text",
    "Processed 9 items"
)
```

post_json(stream, value, tags=None, timestamp=None)

Post a JSON datapoint to a telemetry stream.

Parameters

- **stream** (str) The name of the Formant stream to post the datapoint on
- value (str) The encoded JSON datapoint value
- tags (Optional[Dict[str, str]]) Tags to include on the posted datapoint
- **timestamp** (Optional[int]) Unix timestamp in milliseconds for the posted datapoint. Uses the current time by default

Return type

None

post_numeric(stream, value, tags=None, timestamp=None)

Post a numeric datapoint to a telemetry stream.

Parameters

- stream (str) The name of the Formant stream to post the datapoint on
- value (Union[float, int]) The numeric datapoint value
- tags (Optional[Dict[str, str]]) Tags to include on the posted datapoint
- timestamp (Optional[int]) Unix timestamp in milliseconds for the posted datapoint. Uses the current time by default

Return type

None

```
post_numericset(stream, numerics_dict, tags=None, timestamp=None)
```

Post a numeric set datapoint to a telemetry stream. Numeric sets are collections of related numeric datapoints.

- **stream** (str) The name of the Formant stream to post the datapoint on
- numerics_dict (Dict[str, Tuple[Union[float, int], Optional[str]]]) The numeric set datapoint value, a dictionary mapping names to (numeric value, units) tuples.
- tags (Optional[Dict[str, str]]) Tags to include on the posted datapoint
- **timestamp** (Optional[int]) Unix timestamp in milliseconds for the posted datapoint. Uses the current time by default

Return type

None

```
from formant.sdk.agent.v1 import Client

fclient = Client()
fclient.post_numericset(
    "example.numericset2",
    {
        "frequency": (998, "Hz"),
        "usage": (30, "percent"),
        "warp factor": (6.0, None),
     },
)
```

post_image(*stream*, *value=None*, *url=None*, *content_type='image/jpg'*, *tags=None*, *timestamp=None*)

Post an image datapoint to a telemetry stream.

Parameters

- **stream** (str) The name of the Formant stream to post the datapoint on
- value (Optional[bytes]) The datapoint value: raw bytes of an encoded image or frame
- url (Optional[str]) The datapoint url: path to local file or valid remote URL for remote files
- **content_type**(('image/jpg', 'image/png', 'video/h264'))—The format of the encoded image or frame. Defaults to image/jpg.
- tags (Optional[Dict[str, str]]) Tags to include on the posted datapoint
- timestamp (Optional[int]) Unix timestamp in milliseconds for the posted datapoint. Uses the current time by default

Return type

None

post_bitset(stream, bitset_dict, tags=None, timestamp=None)

Post a bitset datapoint to a telemetry stream. A bitset is a collection of related boolean states.

Parameters

- stream (str) The name of the Formant stream to post the datapoint on
- bitset_dict (Dict[str, bool]) The datapoint value, a dictionary mapping names to booleans
- tags (Optional[Dict[str, str]]) Tags to include on the posted datapoint
- timestamp (Optional[int]) Unix timestamp in milliseconds for the posted datapoint. Uses the current time by default

Return type

None

```
from formant.sdk.agent.v1 import Client

fclient = Client()
fclient.post_bitset(
    "example.bitset",
```

(continues on next page)

(continued from previous page)

```
{
    "standing": False,
    "walking": False,
    "sitting": True
}
```

Post a geolocation datapoint to a telemetry stream.

Parameters

- **stream** (str) The name of the Formant stream to post the datapoint on
- latitude (Union[float, int]) The datapoint value's latitude
- longitude (Union[float, int]) The datapoint value's longitude
- tags (Optional[Dict[str, str]]) Tags to include on the posted datapoint
- timestamp (Optional[int]) Unix timestamp in milliseconds for the posted datapoint. Uses the current time by default

Return type

None

Post a battery datapoint to a telemetry stream. Only percentage is required.

Parameters

- stream (str) The name of the Formant stream to post the datapoint on
- **percentage** (Union[int, float]) The battery charge percentage
- voltage (Union[float, int, None]) The battery voltage
- ${\tt current}$ (Union[float, int, None]) The battery current
- charge (Union[float, int, None]) The battery charge
- tags (Optional[Dict[str, str]]) Tags to include on the posted datapoint
- timestamp (Optional[int]) Unix timestamp in milliseconds for the posted datapoint. Uses the current time by default

Return type

None

post_file(stream, url=None, filename=None, tags=None, timestamp=None)
Post a file to a telemetry stream.

- stream(str) The name of the Formant stream to post the file on
- url (Optional[str]) The file url: path to local file or valid remote URL for remote files
- **filename** (Optional[str]) The file name: name displayed inside Formant module
- tags (Optional[Dict[str, str]]) Tags to include on the posted file

• **timestamp** (Optional[int]) — Unix timestamp in milliseconds for the posted file. Uses the current time by default

Return type

None

```
from formant.sdk.agent.v1 import Client

fclient = Client()
fclient.post_file(
    "example.file",
    /home/user/Desktop/data/planets.csv,
    planets.csv,
)
```

prepare_text(stream, value, tags=None, timestamp=None)

Prepare a text datapoint without posting it.

Parameters

- **stream** (str) The name of the Formant stream for the datapoint
- **value** (str) The text datapoint value
- tags (Optional[Dict[str, str]]) Tags for the datapoint
- timestamp (Optional[int]) Unix timestamp in milliseconds for the datapoint. Uses the current time by default

Return type

datapoint_pb2.Datapoint

prepare_json(stream, value, tags=None, timestamp=None)

Prepare a JSON datapoint without posting it.

Parameters

- stream (str) The name of the Formant stream for the datapoint
- value (str) The encoded JSON datapoint value
- tags (Optional[Dict[str, str]]) Tags for the datapoint
- **timestamp** (Optional[int]) Unix timestamp in milliseconds for the datapoint. Uses the current time by default

Return type

datapoint_pb2.Datapoint

prepare_numeric(stream, value, tags=None, timestamp=None)

Prepare a numeric datapoint without posting it.

- stream (str) The name of the Formant stream for the datapoint
- **value** (Union[float, int]) The numeric datapoint value
- tags (Optional[Dict[str, str]]) Tags for the datapoint
- **timestamp** (Optional[int]) Unix timestamp in milliseconds for the datapoint. Uses the current time by default

Return type

datapoint_pb2.Datapoint

prepare_numericset(stream, numerics_dict, tags=None, timestamp=None)

Prepare a numeric set datapoint without posting it.

Parameters

- **stream** (str) The name of the Formant stream for the datapoint
- numerics_dict (Dict[str, Tuple[Union[float, int], Optional[str]]]) The numeric set datapoint value, a dictionary mapping names to (numeric value, units) tuples.
- tags (Optional[Dict[str, str]]) Tags for the datapoint
- **timestamp** (Optional[int]) Unix timestamp in milliseconds for the datapoint. Uses the current time by default

Return type

The prepared numeric set datapoint

Raises

TypeError: value v for key k in numericset must have length of 2

prepare_image(stream, value=None, url=None, content_type='image/jpg', tags=None, timestamp=None)
Prepare an image datapoint without posting it.

Parameters

- **stream** (str) The name of the Formant stream for the datapoint
- value (Optional[bytes]) The datapoint value: raw bytes of an encoded image or frame
- **url** (Optional[str]) The datapoint url: path to a local file or valid remote URL for remote files
- **content_type** (Literal["image/jpg", "image/png", "video/h264"]) The format of the encoded image or frame. Defaults to "image/jpg".
- tags (Optional[Dict[str, str]]) Tags for the datapoint
- **timestamp** (Optional[int]) Unix timestamp in milliseconds for the datapoint. Uses the current time by default

Return type

datapoint_pb2.Datapoint

Raises

InvalidArgument: One of [url, value] must be used.

prepare_bitset(stream, bitset_dict, tags=None, timestamp=None)

Prepare a bitset datapoint without posting it.

- **stream** (str) The name of the Formant stream for the datapoint
- bitset_dict (Dict[str, bool]) The datapoint value, a dictionary mapping names to booleans
- tags (Optional[Dict[str, str]]) Tags for the datapoint
- **timestamp** (Optional[int]) Unix timestamp in milliseconds for the datapoint. Uses the current time by default

Return type

datapoint_pb2.Datapoint

Prepare a geolocation datapoint without posting it.

Parameters

- **stream** (str) The name of the Formant stream for the datapoint
- latitude (Union[float, int]) The datapoint value's latitude
- longitude (Union[float, int]) The datapoint value's longitude
- tags (Optional[Dict[str, str]]) Tags for the datapoint
- **timestamp** (Optional[int]) Unix timestamp in milliseconds for the datapoint. Uses the current time by default
- altitude (Union[float, int]) The altitude value (optional)
- orientation (Union[float, int]) The orientation value (optional)

Returns

The prepared geolocation datapoint

Return type

datapoint_pb2.Datapoint

Prepare a battery datapoint without posting it.

Parameters

- **stream** (str) The name of the Formant stream for the datapoint
- **percentage** (Union[int, float]) The battery charge percentage
- **voltage** (Optional[Union[int, float]]) The battery voltage (optional)
- **current** (Optional[Union[int, float]]) The battery current (optional)
- **charge** (Optional[Union[int, float]]) The battery charge (optional)
- tags (Optional[Dict[str, str]]) Tags for the datapoint
- **timestamp** (Optional[int]) Unix timestamp in milliseconds for the datapoint. Uses the current time by default

Returns

The prepared battery datapoint

Return type

datapoint_pb2.Datapoint

prepare_file(stream, url=None, filename=None, tags=None, timestamp=None)

Prepare a file datapoint without posting it.

- **stream** (str) The name of the Formant stream for the datapoint
- url (str) The file url: path to a local file or valid remote URL for remote files
- **filename** (Optional[str]) The file name: name displayed inside Formant module

- tags (Optional[Dict[str, str]]) Tags for the datapoint
- **timestamp** (Optional[int]) Unix timestamp in milliseconds for the datapoint. Uses the current time by default

Returns

The prepared file datapoint

Return type

datapoint pb2.Datapoint

register_telemetry_listener_callback(f, stream_filter=None)

Datapoints posted to the Formant agent whose "stream" value matches an element of the given stream filter will be streamed into the provided callback. If no stream filter is provided, datapoints from all streams will be received.

Parameters

- \mathbf{f} A callback that will be called when a datapoint is posted to the Formant agent
- **stream_filter** A list of stream names. The provided callback is only called for datapoints whose stream name is in this list

unregister_telemetry_listener_callback(f)

Unregisters previously registered telemetry loopback callback.

Parameters

f – The telemetry loopback callback to be unregistered

set_base_frame_id(base reference frame)

Sets the base reference frame for tf tree ingestion.

Parameters

base_reference_frame – The base reference frame for the tf tree.

Return type

None

post_transform_frame(parent_frame, child_frame, tx, ty, tz, rx, ry, rz, rw)

Adds a transform frame, used to position datapoints in 3D space.

Parameters

- $parent_frame (str) The parent frame of the posted transform$
- child_frame (str) The child frame of the posted transform
- tx (Union[int, float]) x-translation
- ty (Union[int, float]) y-translation
- **tz** (Union[int, float]) z-translation
- **rx** (Union[int, float]) x-rotation (quaternion)
- **ry** (Union[int, float]) y-rotation (quaternion)
- ${f rz}$ (Union[int, float]) z-rotation (quaternion)
- rw (Union[int, float]) w-rotation (quaternion)

Return type

None

create_event(*message*, *tags=None*, *timestamp=None*, *end_timestamp=None*, *notify=False*, *severity='info'*)

Creates and ingests an event.

Parameters

- message (str) The text payload of the event
- tags (Optional[Dict[str, str]]) Tags to include on the event
- timestamp (Optional[int]) Unix starting timestamp for the event. Uses the current time by default
- end_timestamp (Optional[int]) Unix ending timestamp for the event. Must be greater than timestamp. If end_timestamp is supplied, the event will span a length of time
- notify (bool) If True, the created event will trigger a Formant notification
- severity (('info', 'warning', 'critical', 'error')) The severity level of the event

Return type

None

```
from formant.sdk.agent.v1 import Client

fclient = Client()
fclient.create_event(
    "Confinement beam to warp frequency 0.4e17 hz",
    tags={"Region": "North"},
    notify=True,
    severity="warning"
)
```

get_command_request(command_filter=None)

If there is a command request in the agent's queue whose command value matches an element of the given command filter, takes and returns the command request. Otherwise, returns None if there are no matching command requests in the agent's queue.

Parameters

command_filter (Optional[List[str]]) — A list of command names. This method only returns commands whose names are in this list.

Return type

CommandRequest, None

```
send_command_response(request_id, success, datapoint=None)
```

Sends a command response for an identified command request to Formant. Returns an error if there was a problem sending the command response.

Parameters

- request_id (str) The ID of the command request to which this method responds
- success (bool) Whether the command was successfully executed
- **datapoint** (Optional[Datapoint]) A datapoint related to the command. Can attach a datapoint to a command response. E.g., if a command fails, can ingest a text datapoint with an error message related to the failure of the command.

Return type

None

register_command_request_callback(f, command_filter=None)

Command requests issued to the agent whose command value matches an element of the given command filter will be streamed into the provided callback. If no command filter is provided, all command requests will be handled.

Parameters

- **f** (Callable[[CommandRequest], None]) A callback that will be executed on command requests as they are received by the Formant agent.
- **command_filter** (Optional[List[str]]) A list of command names. The provided callback is only executed on commands whose names are in this list

Return type

None

unregister_command_request_callback(f)

Unregisters previously registered command request callback.

Parameters

 $\textbf{f} \; (\texttt{Callable}[[\texttt{CommandRequest}], \, \texttt{None}]) - The \; command \; request \; callback \; to \; be \; unregistered$

Return type

None

register_teleop_callback(f, stream_filter=None)

Control datapoints received from teleop whose stream value matches an element of the given stream filter will be streamed into the provided callback. If no stream filter is provided, control datapoints from all streams will be received.

Parameters

- **f** (Callable[[ControlDatapoint], None]) A callback that will be executed on teleop control datapoints as they are received by the Formant agent
- **stream_filter** (Optional[List[str]]) A list of stream names. The provided callback is only exectued on control datapoints whose names are in this list

Return type

None

unregister_teleop_callback(f)

Unregisters previously registered teleop callback.

Parameters

f (Callable[[ControlDatapoint], None]) – The teleop callback to be unregistered

Return type

None

get_teleop_info()

Returns current information about teleop connection count.

Return type

GetTeleopInfoResponse

register_teleop_heartbeat_callback(f)

The provided callback will be called once each time a heartbeat is received over Formant teleop. Heartbeats are streamed from the operator machine at 20Hz on a UDP-like channel. This method can be used to quickly detect teleop disconnections.

Parameters

f – A callback that will be called when a heartbeat is received.

Return type

None

unregister_teleop_heartbeat_callback(f)

Unregisters previously registered teleop heartbeat callback.

Parameters

f – The teleop heartbeat callback to be unregistered

Return type

None

${\bf send_on_custom_data_channel}({\it channel_name}, {\it payload})$

Sends data on custom data channel.

Parameters

- channel_name (str) The name of the channel over which to send data
- payload (bytes) The data payload to send.

Return type

None

register_custom_data_channel_message_callback(f, channel_name_filter=None)

Registers a callback on data presence on the specified data channel.

Parameters

- \mathbf{f} A callback that will be called with messages received on the specified custom data channel.
- **channel_name_filter** An optional allow list of custom channel names for this callback.

Return type

None

unregister_custom_data_channel_message_callback(f)

Unregisters previously registered custom data channel callback.

Parameters

f – The custom data channel message callback to be unregistered.

Return type

None

custom_data_channel_request_handler(channel_name)

Registers a handler for requests sent by RequestDataChannel instances (part of the Formant toolkit). See: https://github.com/FormantIO/toolkit/tree/master/examples/request-response for an example.

Parameters

channel_name – The name of the custom data channel to listen on.

Return type

Get Custom Data Channel Message Stream Response

```
from formant.sdk.agent.v1 import Client

fclient = Client()

@fclient.custom_data_channel_request_handler("my_channel")
def handler(request_data):
    # Do something with request_data string
    print(json.loads(request_data))

# Return any string response
    return json.dumps({"message": "Hello world!"})
```

custom_data_channel_binary_request_handler(channel_name, new_thread=False)

Parameters

channel_name – The name of the custom data channel to listen on.

```
from formant.sdk.agent.v1 import Client

fclient = Client()

@fclient.custom_data_channel_request_handler("my_channel")
def handler(request_data):
    # Do something with request_data bytes
    print(request_data.decode("utf-8"))

# Return any bytes response
    return b"Hello."
```

get_app_config(key, *args)

Returns the value for the given key that was set in Formant application configuration for this device, or returns the given default value.

Parameters

- **key** (str) The application configuration key
- args (Any) (One additional argument) The default value to return if the key is not found.

Raises

```
TypeError: Function takes at most two args: (key: str, default: Any)
```

Return type

Optional[str]

get_config_blob_data()

Returns the blob data defined in the device configuration.

```
Return type
str
```

get_buffer_metadata()

Returns the current WebRTC buffer statistics.

Return type

agent_pb2.GetBufferMetadata

register_config_update_callback(f)

Adds a function to the list of callbacks that are executed by the client when this device receives updated configuration from Formant.

Parameters

f (Callable) – The configuration update callback to be registered.

Return type

None

unregister_config_update_callback(f)

Removes a function from the list of callbacks that are executed by the client when this device receives updated configuration from Formant.

Parameters

f (Callable) – The configuration update callback to be unregistered.

Return type

None

call_cloud(endpoint, method, body, headers, require_formant_auth, buffer_call, is_retryable, retryable_status_codes=[])

Allows the user to call an endpoint of the Formant Admin API authenticated by the Formant agent instead of user credentials.

API calls which allow device authentication can buffer and retry calls. For more information, see the following documentation:

Use the Formant agent to authenticate API calls

Buffering and retrying API calls

Note: If buffering is enabled, you will not get a return value from this function.

- **endpoint** (*str*) Full URL of the endpoint to call (can be found at https://docs.formant.io/reference).
- **method** (str) The HTTP method to use (e.g., "POST", "PUT", "GET", "PATCH", "DELETE").
- **headers** (*Dict[str, str]*) Set the content type of your payload.
- **body** (str) Payload of the request. If JSON, use json.dumps().
- **require_formant_auth** (*bool*) Whether or not to use device authentication. If True, authorization header is added automatically.
- **buffer_call** (*bool*) Whether or not to buffer the call. If True, the call is buffered and will be retried if necessary. If True, call_cloud() returns None.
- **is_retryable** (*bool*) (buffer_call=True only) Whether to retry the call if it fails.
- **retryable_status_codes** (*bool*) (buffer_call=True only) The status codes to retry on. A value of [-1] will retry on the following codes: [INSERT CODES].

```
from formant.sdk.agent.v1 import Client
import json

fclient = Client()

fclient.call_cloud(
    endpoint="https://api.formant.io/v1/admin/devices/query",
    method="GET",
    headers={
        "Content-Type": "application/json"
    },
    body=json.dumps({}),
    require_formant_auth=True,
    buffer_call=False,
    is_retryable=False,
    retryable_status_codes=[]
)
```

Creates an intervention request based on type selection. Takes an image url, options and an integer with an optional addition of instructions, and title.

Parameters

- title (str) The name of the intervention
- **instruction** (str) The instructions detailing how to resolve the intervention
- options (List[str]) The list with options to select from
- **hint** (int) The index of the suspected correct answer
- **url** (str) The path to local file or valid remote URL for remote files
- **content_type** (Literal["image/jpg", "image/png"]) The format of the encoded image or frame. Defaults to "image/jpg"
- timestamp (Optional[int]) Unix timestamp in milliseconds for the posted datapoint. Uses the current time by default
- severity (Literal["info", "warning", "critical", "error"]) The severity level of the event

Return type

InterventionRequest

```
from formant.sdk.agent.v1 import Client

fclient = Client()
fclient.create_selection_intervention_request(
    "Which fruit is best?",
    "Select the best grape",
    ["fruit_1", "fruit_2", "fruit_3"],
    hint=1,
    url=/home/my_user/data/test-image.jpeg
    severity=critical
)
```

Creates an intervention request based on type "labeling".

Parameters

- title (str) The name of the intervention
- **instruction** (str) The instructions detailing how to resolve the intervention
- labels (Dict[str, str]) An Array of labels
- hint (Optional[List[intervention_pb2.LabeledPolygon]]) An array of label polygons, X and Y coordinates with a label
- url (str) The path to local file or valid remote URL for remote files
- **content_type** (Literal["image/jpg", "image/png"]) The format of the encoded image or frame. Defaults to "image/jpg".
- timestamp (Optional[int]) Unix timestamp in milliseconds for the posted datapoint. Uses the current time by default
- **severity** (Literal["info", "warning", "critical", "error"]) The severity level of the event

Return type

 $intervention_pb2. Intervention Request$

Each label in labels defined as:

```
Label = {
    value = string;
    string display_name = string;
    }
```

Hint is an array of "LabeledPolygon", defined as:

```
hint = {
   List of vertex,
   List of labels
}
```

where each vertex is defined as:

```
vertex = {
    x = float,
    y = float
}
```

get_intervention_response(request_id)

Receives request ID, and returns a response.

Parameters

- request_id (str) The ID of the intervention request to which this method responds
- **timestamp** Unix timestamp in milliseconds for the posted datapoint. Uses the current time by default.

Return type

 $agent_pb2. GetIntervention Response$

```
from formant.sdk.agent.v1 import Client

fclient = Client()
request = fclient.create_selection_intervention_request(
    title="",
    instruction="instruction",
    options=["option1", "option2", "option3"],
    hint=0,
    url="/home/formantuser/Downloads/image.png",
)
fclient.handle_intervention_response(request.id)
```

CHAPTER

TWO

CLOUD SDK REFERENCE

This section outlines the usage of the Cloud SDK.

The first section describes the Formant Cloud SDK Client, which will be used to instantiate and authenticate a session with the Formant cloud.

Then, each object which can be manipulated in the Formant cloud is listed.

Creates a client to interact with the Formant cloud. Allows you to create, update, and delete entities in your Formant organization.

```
from formant.sdk.cloud.v2 import Client
fclient = Client()
```

summary

Parameters

- **email** (*str*, *optional*) Formant email address. This must be provided, or the FORMANT_EMAIL environment variable must be set. Defaults to None
- password (str, optional) Formant password. This must be provided, or the FORMANT_PASSWORD environment variable must be set. Defaults to None
- base_url (str, optional) API base URL, defaults to DEFAULT_BASE_URL

Raises

- ValueError email argument missing and FORMANT_EMAIL environment variable not set!
- ValueError password argument missing and FORMANT_PASSWORD environment variable not set

class formant.sdk.cloud.v2.src.resources.adapters.adapters.Adapters(get_client)

```
create(adapter)
```

Creates a new Adapter.

```
Parameters
```

```
adapter (Adapter) - _description_
```

Returns

description

Return type

type

```
async create_async(adapter)
          Creates a new Adapter.
              Parameters
                  adapter (Adapter) - _description_
              Returns
                  _description_
              Return type
                  _type_
     delete(id)
          Deletes an adapter by adapter ID.
              Parameters
                  id(str) – ID of the adapter to delete.
              Returns
                  _description_
              Return type
                  _type_
     async delete_async(id)
          Deletes an adapter by adapter ID.
              Parameters
                  id(str) – ID of the adapter to delete.
              Returns
                  _description_
              Return type
                  _type_
class formant.sdk.cloud.v2.src.resources.annotations.annotations.Annotations(get_client)
     get_template(id)
          Get an annotation template by annotation template ID.
              Parameters
                  id(str) – ID of the annotation template you want to get.
              Returns
                   _description_
              Return type
                  _type_
     async get_template_async(id)
          Get an annotation template by annotation template ID.
              Parameters
                  id (str) - _description_
              Returns
                   _description_
              Return type
                  _type_
```

```
list_templates()
          List all annotation templates in your organization.
              Returns
                  _description_
              Return type
                 _type_
     async list_templates_async()
          List all annotation templates in your organization.
              Returns
                  _description_
              Return type
                  _type_
     post(annotation)
          Create a new Annotation.
              Parameters
                  annotation (Annotation) - _description_
              Returns
                  _description_
              Return type
                  _type_
     async post_async(annotation)
          Create a new Annotation.
              Parameters
                  annotation (Annotation) - _description_
              Returns
                  _description_
              Return type
                  _type_
class formant.sdk.cloud.v2.src.resources.commands.commands(get_client)
     create(command)
          Creates a command
     async create_async(command)
          Creates a command
     query(command_query)
          Query undelivered commands by device ID
     async query_async(command_query)
          Query undelivered commands by device ID
class formant.sdk.cloud.v2.src.resources.count.count.Count(get_client)
     active_devices(active_devices_query)
          Gets all the active devices during the timestamp
```

```
async active_devices_async(active_devices_query)
          Gets all the active devices during the timestamp
class formant.sdk.cloud.v2.src.resources.devices.devices.Devices(get_client)
     get_device(device_id)
          Get a device
     async get_device_async(device_id)
          Get a device
     get_device_configuration(device_id, desired_configuration_version)
          Get a device configuration
     async get_device_configuration_async(device_id, desired_configuration_version)
          Get a device configuration
     patch(device_id, partial_device)
          Update a device
     async patch_async(device_id, partial_device)
          Update a device
     post_device_configuration(device_id, device_configuration)
          Create a device configuration
     async post_device_configuration_async(device_id, device_configuration)
          Create a device configuration
     query(device_query)
          Query devices by name and/or tags
     async query_async(device_query)
          Query devices by name and/or tags
class formant.sdk.cloud.v2.src.resources.events.events.Events(get_client)
     query(event_query)
          Get an event
     async query_async(event_query)
          Get an event
class formant.sdk.cloud.v2.src.resources.files.files.Files(get_client)
     upload(path, timeout=60)
          Uploads a file
     async upload_async(path, timeout=60)
          Uploads a file
class formant.sdk.cloud.v2.src.resources.ingest.ingest.Ingest(get_client)
     post(ingestion_request)
     post_all(ingestion_requests)
     async post_all_async(ingestion_requests)
```

```
async post_async(ingestion_request)
class formant.sdk.cloud.v2.src.resources.metadata.metadata.Metadata(get_client)
     list_device_ids(scope_filer)
          List device ids
     async list_device_ids_async(scope_filer)
          List device ids
     list_metadata(scope_filer)
          List stream metadata
     async list_metadata_async(scope_filer)
          List stream metadata
     list_stream_names(scope_filer)
          List stream names
     async list_stream_names_async(scope_filer)
          List stream names
class formant.sdk.cloud.v2.src.resources.online_devices.online_devices.0nlineDevices(get_client)
     online()
          See devices online currently
     async online_async()
          See devices online currently
class formant.sdk.cloud.v2.src.resources.presence.presence.Presence(get_client)
     count(interval_query)
          Tells you if data has been ingested within a certain time period
     async count_async(interval_query)
          Tells you if data has been ingested within a certain time period
class formant.sdk.cloud.v2.src.resources.queries.queries.Queries(get client)
     query(query, app_id='formant/sdk')
          Queries objects based on data types
     async query_async(query, app_id='formant/sdk')
          Queries objects based on data types
class formant.sdk.cloud.v2.src.resources.stream_current.stream_current.StreamCurrent(get_client)
     query(scope_filter)
          Gets you the current value of a stream that has been configured to cache the current value
     async query_async(scope_filter)
          Gets you the current value of a stream that has been configured to cache the current value
class formant.sdk.cloud.v2.src.resources.views.views.Views(get_client)
     get(device_id)
          Get a device layout
```

```
get_all()
    List all device layouts
async get_all_async()
    List all device layouts
async get_async(device_id)
    Get a device layout
patch(id, partial_view)
    Update a device layout
async patch_async(id, partial_view)
```

Update a device layout

INDEX

```
Α
                                                                                                                                                                                                                                                                                       (formant.sdk.agent.v1.Client method), 12
                                                                                                                                                                                                                                          custom_data_channel_request_handler()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (for-
 active_devices()
                                                                                                                                                                                                                   (for-
                                                                                                                                                                                                                                                                                      mant.sdk.agent.v1.Client method), 11
                                       mant.sdk.cloud.v2.src.resources.count.count.Count
                                        method), 19
active_devices_async()
                                       mant.sdk.cloud.v2.src.resources.count.count.Coundelete() (formant.sdk.cloud.v2.src.resources.adapters.Adapters
                                       method), 19
                                                                                                                                                                                                                                                                                      method), 18
                                                                                                                                                                                                                     for- delete_async() (formant.sdk.cloud.v2.src.resources.adapters.adapters.Adapters.Adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.a
Adapters
                                                                                                                                                                in
                                       mant.sdk.cloud.v2.src.resources.adapters.adapters),
                                                                                                                                                                                                                                                                                      method), 18
                                                                                                                                                                                                                                              Devices
                                                                                                                                                                                                                                                                                                                                    (class
                                                                                                                                                                                                                                                                                                                                                                                                            in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    for-
                                                                                                                                                                                                                                                                                      mant.sdk.cloud.v2.src.resources.devices.devices),
Annotations
                                                                                                    (class
                                                                                                                                                                                                                      for-
                                                                                                                                                                     in
                                        mant.sdk.cloud.v2.src.resources.annotations.annotations), 20
 C
                                                                                                                                                                                                                                              Events
                                                                                                                                                                                                                                                                                                                                (class
                                                                                                                                                                                                                                                                                                                                                                                                          in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    for-
                                                                                                                                                                                                                                                                                      mant.sdk.cloud.v2.src.resources.events.events),
call_cloud() (formant.sdk.agent.v1.Client method), 13
                                                                                                                                                                                                                                                                                       20
Client (class in formant.sdk.agent.v1), 1
Client (class in formant.sdk.cloud.v2.client), 17
Commands
                                                                                                                                                                                                                      for-
                                        mant.sdk.cloud.v2.src.resources.commands.commEndes, (class in formant.sdk.cloud.v2.src.resources.files.files),
Count (class in formant.sdk.cloud.v2.src.resources.count.count),
count() (formant.sdk.cloud.v2.src.resources.presence.preseque(Presequent.sdk.cloud.v2.src.resources.views.views.Views
                                        method), 21
                                                                                                                                                                                                                                                                                       method), 21
 count_async() (formant.sdk.cloud.v2.src.resources.presengeprasenve_Recordermant.sdk.agent.v1.Client method),
                                         method), 21
create() (formant.sdk.cloud.v2.src.resources.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.ada
                                        method), 17
                                                                                                                                                                                                                                                                                      method), 21
create() (formant.sdk.cloud.v2.src.resources.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.commands.com
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (for-
                                       method), 19
                                                                                                                                                                                                                                                                                      mant.sdk.cloud.v2.src.resources.views.views.Views
create_async() (formant.sdk.cloud.v2.src.resources.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapters.adapte
                                        method), 17
                                                                                                                                                                                                                                               get_app_config()
                                                                                                                                                                                                                                                                                                                                                                  (formant.sdk.agent.v1.Client
create_async() (formant.sdk.cloud.v2.src.resources.commands.commands.Commands
                                        method), 19
                                                                                                                                                                                                                                               get_async() (formant.sdk.cloud.v2.src.resources.views.views.Views
create_event() (formant.sdk.agent.v1.Client method),
                                                                                                                                                                                                                                                                                       method), 22
                                                                                                                                                                                                                                              get_buffer_metadata() (formant.sdk.agent.v1.Client
create_labeling_intervention_request()
                                                                                                                                                                                                                   (for-
                                                                                                                                                                                                                                                                                      method), 12
                                       mant.sdk.agent.v1.Client method), 14
                                                                                                                                                                                                                                               get_command_request() (formant.sdk.agent.v1.Client
create_selection_intervention_request() (for-
                                                                                                                                                                                                                                                                                      method), 9
                                         mant.sdk.agent.v1.Client method), 14
                                                                                                                                                                                                                                               get_config_blob_data()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (for-
custom_data_channel_binary_request_handler()
                                                                                                                                                                                                                                                                                      mant.sdk.agent.v1.Client method), 12
```

```
get_device() (formant.sdk.cloud.v2.src.resources.devices.devices.Devines.dk.cloud.v2.src.resources.metadata.metadata),
                                    method), 20
get_device_async()
                                    mant.sdk.cloud.v2.src.resources.devices.devices.Devices
                                    method), 20
                                                                                                                                                                                                                                 online() (formant.sdk.cloud.v2.src.resources.online devices.online device
get_device_configuration()
                                                                                                                                                                                                       (for-
                                                                                                                                                                                                                                                                       method), 21
                                    mant.sdk.cloud.v2.src.resources.devices.devices.Denicese\_async() \ (formant.sdk.cloud.v2.src.resources.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online\_devices.online
                                    method), 20
                                                                                                                                                                                                                                                                       method), 21
get_device_configuration_async()
                                                                                                                                                                                                        (for- OnlineDevices
                                                                                                                                                                                                                                                                                                                                      (class
                                                                                                                                                                                                                                                                                                                                                                                                                                            for-
                                    mant.sdk.cloud.v2.src.resources.devices.devices.Devices
                                                                                                                                                                                                                                                                       mant.sdk.cloud.v2.src.resources.online_devices.online_devices),
                                    method), 20
get_intervention_response()
                                    mant.sdk.agent.v1.Client method), 15
                                                                                                            (formant.sdk.agent.v1.Client \quad patch() \ (formant.sdk.cloud.v2.src.resources.devices.devices.Devices) \\
get_teleop_info()
                                    method), 10
                                                                                                                                                                                                                                                                       method), 20
get_template() (formant.sdk.cloud.v2.src.resources.annopations(armformions) Akuentaidans.src.resources.views.views.Views
                                    method), 18
                                                                                                                                                                                                                                                                       method), 22
get_template_async()
                                                                                                                                                                                                                                patch_async() (formant.sdk.cloud.v2.src.resources.devices.devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devices.Devi
                                    mant.sdk.cloud.v2.src.resources.annotations.annotations.Annotations.20
                                                                                                                                                                                                                                 patch_async() (formant.sdk.cloud.v2.src.resources.views.Views
                                                                                                                                                                                                                                                                       method), 22
                                                                                                                                                                                                                                 post() (formant.sdk.cloud.v2.src.resources.annotations.annotations.Annot
Ingest
                                                                             (class
                                                                                                                                                    in
                                                                                                                                                                                                          for-
                                                                                                                                                                                                                                                                       method), 19
                                    mant.sdk.cloud.v2.src.resources.ingest.ingest),
                                                                                                                                                                                                                                 post() (formant.sdk.cloud.v2.src.resources.ingest.ingest.Ingest
                                                                                                                                                                                                                                                                       method), 20
                                                                                                                                                                                                                                 post_all() (formant.sdk.cloud.v2.src.resources.ingest.ingest.Ingest
                                                                                                                                                                                                                                                                       method), 20
list_device_ids()
                                                                                                                                                                                                        (for- post_all_async()
                                                                                                                                                                                                                                                                                                                                                                                                                                          (for-
                                    mant.sdk.cloud.v2.src.resources.metadata.metadata.Metadata.dk.cloud.v2.src.resources.ingest.ingest.Ingest
                                    method), 21
                                                                                                                                                                                                       (for- post_async() (formant.sdk.cloud.v2.src.resources.annotations.annotation
list_device_ids_async()
                                    mant.sdk.cloud.v2.src.resources.metadata.metadata.Metadatadethod), 19
                                                                                                                                                                                                                                 post_async() (formant.sdk.cloud.v2.src.resources.ingest.ingest.Ingest
                                    method), 21
list_metadata()
                                                                                                                                                                                                        (for-
                                                                                                                                                                                                                                                                       method), 20
                                    mant.sdk.cloud.v2.src.resources.metadata.metadatataery() (formant.sdk.agent.v1.Client method),
                                    method), 21
                                                                                                                                                                                                        (for- post_bitset() (formant.sdk.agent.v1.Client method), 3
list_metadata_async()
                                    mant.sdk.cloud.v2.src.resources.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadat
                                    method), 21
                                                                                                                                                                                                                                                                       mant.sdk.cloud.v2.src.resources.devices.devices.Devices
                                                                                                                                                                                                                                                                       method), 20
list_stream_names()
                                                                                                                                                                                                        (for-
                                    mant.sdk.cloud.v2.src.resources.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadat
                                                                                                                                                                                                                                                                       mant.sdk.cloud.v2.src.resources.devices.devices.Devices
                                    method), 21
                                                                                                                                                                                                                                                                       method), 20
list_stream_names_async()
                                                                                                                                                                                                        (for-
                                    mant.sdk.cloud.v2.src.resources.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadata.metadat
                                                                                                                                                                                                                                 post_geolocation()
                                                                                                                                                                                                                                                                                                                                               (formant.sdk.agent.v1.Client
                                    method), 21
                                                                                                                                                                                                                                                                       method), 4
list_templates()
                                                                                                                                                                                                        (for-
                                    mant.sdk.cloud.v2.src.resources.annotations.annopastnsixwagetaioformant.sdk.agent.v1.Client method), 3
                                                                                                                                                                                                                                 post_json() (formant.sdk.agent.v1.Client method), 2
                                    method), 18
                                                                                                                                                                                                                                post_numeric() (formant.sdk.agent.v1.Client method),
list_templates_async()
                                                                                                                                                                                                        (for-
                                    mant.sdk.cloud.v2.src.resources.annotations.annotations.Annotations
                                                                                                                                                                                                                                 post_numericset()
                                                                                                                                                                                                                                                                                                                                               (formant.sdk.agent.v1.Client
                                    method), 19
                                                                                                                                                                                                                                                                       method), 2
M
                                                                                                                                                                                                                                 post_text() (formant.sdk.agent.v1.Client method), 1
Metadata
                                                                                    (class
                                                                                                                                                      in
                                                                                                                                                                                                          for-
```

24 Index

<pre>post_transform_frame()</pre>		(for-	register_custom_data_channel_message_callback()			
mant.sdk.agent.v1.Client method), 8			(formant.sdk.agent.v1.Client method), 11	(f		
<pre>prepare_battery() method), 7</pre>	(Jormant.sak.agent.v1.)	Ciieni	register_telemetry_listener_callback() mant.sdk.agent.v1.Client method), 8	(for-		
<pre>prepare_bitset()</pre>	(formant.sdk.agent.v1.	Client	register_teleop_callback()	(for-		
method), 6	yermaninganingenin 11	<i></i>	mant.sdk.agent.v1.Client method), 10	Vo.		
<pre>prepare_file() (formant.</pre>	.sdk.agent.v1.Client me	thod).	register_teleop_heartbeat_callback()	(for-		
7	,	,,	mant.sdk.agent.v1.Client method), 10	V		
<pre>prepare_geolocation()</pre>	(formant.sdk.agent.v1.	Client	S			
<pre>prepare_image()</pre>	(formant.sdk.agent.v1.	Client	send_command_response()	(for-		
method), 6			mant.sdk.agent.v1.Client method), 9	Vo.		
<pre>prepare_json() (formant.</pre>	.sdk.agent.v1.Client mei	thod),	send_on_custom_data_channel()	(for-		
5			mant.sdk.agent.v1.Client method), 11	V		
<pre>prepare_numeric()</pre>	(formant.sdk.agent.v1.	Client	<pre>set_base_frame_id() (formant.sdk.agent.v1.0</pre>	Client		
method), 5			method), 8			
<pre>prepare_numericset()</pre>	(formant.sdk.agent.v1.	Client	StreamCurrent (class in	for-		
method), 6			mant.sdk.cloud.v2.src.resources.stream_c	urrent.stream current),		
<pre>prepare_text() (formant.</pre>	.sdk.agent.v1.Client met	thod),	21	_		
5						
Presence (class		for-	U			
mant.sdk.cloud.v2	.src.resources.presence.	.presen	Cunregister_command_request_callback()	(for-		
21			mant.sdk.agent.v1.Client method), 10			
\circ			<pre>unregister_config_update_callback()</pre>	(for-		
Q			mant.sdk.agent.v1.Client method), 13			
Queries (class	in	for-	unregister_custom_data_channel_message_c	callback()		
mant.sdk.cloud.v2	.src.resources.queries.q	ueries)	(formant.sdk.agent.v1.Client method), 11			
guery() (formant.sdk.cloud	l.v2.src.resources.comm	ands.co	unregister_telemetry_listener_callback() ommands.Commandsagent.v1.Client method), 8	(for-		
method), 19			unregister_teleop_callback()	(for-		
	l.v2.src.resources.device	es.devic	es.Devices mant.sdk.agent.v1.Client method), 10	(JOI		
method), 20			unregister_teleop_heartbeat_callback()	(for-		
query() (formant.sdk.cloud	l.v2.src.resources.events	s.events	Events mant.sdk.agent.v1.Client method), 11	ye.		
method), 20			upload() (formant.sdk.cloud.v2.src.resources.files.	files.Files		
query() (formant.sdk.cloud	l.v2.src.resources.querie	es.queri	ies.Queries _{method}), 20	,		
method), 21			upload_async() (formant.sdk.cloud.v2.src.resourc	es.files.files.Files		
query() (formant.sdk.cloud method), 21	l.v2.src.resources.strean	n_curre	ent.stream_çµçnçış,Şt <u>r</u> eamCurrent	J		
	dk.cloud.v2.src.resource	es.comn	n ds lds.commands.Commands			
method), 19				rianna mianna)		
query_async() (formant.somethod), 20	dk.cloud.v2.src.resource	es.devic	Views (class in formant.sdk.cloud.v2.src.resources.ves.devices.Devices	news.views),		
query_async() (formant.sa	dk cloud v2 src resource	es event	es events Events			
method), 20	in.ciona.v2.src.resouree	is.eveni	s.evenus.Evenus			
query_async() (formant.sa	dk cloud v2 src resource	es aueri	ies queries Queries			
method), 21		_	-			
query_async() (formant.so method), 21	dk.cloud.v2.src.resource	es.strea	m_current.stream_current.StreamCurrent			
R						
register_command_reque	est_callback()	(for-				
mant.sdk.agent.v1		v				
register_config_update		(for-				
mant sdk agent v1 Client method) 12						

Index 25