# **Formant SDK Reference**

**Formant** 

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### **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",
```

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```
{
    "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)
- ${\tt rz}$  (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. (syntax found at https://docs.formant.io/reference).
- **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 all 5xx codes EXCEPT FOR the following: [500, 501, 502, 505, 507, 508, 510, 511].

```
from formant.sdk.agent.v1 import Client
import json
fclient = Client()
payload = {
    "query": "acme",
    "count": 10
}
fclient.call_cloud(
    endpoint="https://api.formant.io/v1/admin/devices/query".
    method="POST",
    headers={
        "Content-Type": "application/json"
    },
    body=json.dumps(payload),
    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",
```

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```
["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
- $\bullet$  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.

- 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

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