Vumi Go HTTP API Client Documentation

Release 0.3.2

Praekelt Foundation

February 17, 2017

Contents

1 Account API Client 3

2 Contacts API Client 5

3 HTTP API Conversation Client 7

4 Metrics API Client 9

5 Optouts API Client 11

6 Indices and tables 13

Contents:

CHAPTER 1

Account API Client

class go_http.account.**AccountApiClient**(*auth_token*, *api_url=None*, *session=None*)

Client for Vumi Go's JSON-RPC based account, conversations, channel and routing API.

Parameters

- **auth_token** (*str*) – An OAuth 2 access token. NOTE: This will be replaced by a proper authentication system at some point.
- **api_url** (*str*) – The full URL of the HTTP API. Defaults to `https://go.vumi.org/api/v1/go`.
- **session** (`requests.Session`) – Requests session to use for HTTP requests. Defaults to a new session.

campaigns()

Return a list of campaigns accessible by the account.

Note: The server-side implementation of this API method is a stub. It always returns a single campaign whose name is 'Your Campaign' and whose key is the account key.

channels(*campaign_id*)

Return a list of channels for the campaign.

Parameters **campaign_id** (*str*) – The campaign or account id.

conversations(*campaign_id*)

Return a list of conversations for the campaign.

Parameters **campaign_id** (*str*) – The campaign or account id.

routers(*campaign_id*)

Return a list of routers for the campaign.

Parameters **campaign_id** (*str*) – The campaign or account id.

routing_entries(*campaign_id*)

Return a list of routing entries for the campaign.

Parameters **campaign_id** (*str*) – The campaign or account id.

routing_table(*campaign_id*)

Return the complete routing table for the campaign.

Parameters **campaign_id** (*str*) – The campaign or account id.

update_routing_table(*campaign_id*, *routing_table*)

Update the routing table for the campaign.

Parameters

- **campaign_id** (*str*) – The campaign or account id.
- **routing_table** (*dict*) – The complete new routing table.

CHAPTER 2

Contacts API Client

class go_http.contacts.**ContactsApiClient**(*auth_token*, *api_url=None*, *session=None*)
Client for Vumi Go's contacts API.

Parameters

- **auth_token** (*str*) – An OAuth 2 access token. NOTE: This will be replaced by a proper authentication system at some point.
- **api_url** (*str*) – The full URL of the HTTP API. Defaults to `https://go.vumi.org/api/v1/go`.
- **session** (`requests.Session`) – Requests session to use for HTTP requests. Defaults to a new session.

contacts(*start_cursor=None*)
Retrieve all contacts.

This uses the API's paginated contact download.

Parameters **start_cursor** – An optional parameter that declares the cursor to start fetching the contacts from.

Returns An iterator over all contacts.

create_contact(*contact_data*)
Create a contact.

Parameters **contact_data** (*dict*) – Data for new contact.

create_group(*group_data*)
Create a group.

Parameters **group_data** (*dict*) – Data for new group.

delete_contact(*contact_key*)
Delete a contact.

Parameters **contact_key** (*str*) – Key for the contact to delete.

delete_group(*group_key*)
Delete a group.

Parameters **group_key** (*str*) – Key for the group to delete.

get_contact(**args*, ***kw*)
Get a contact. May either be called as `.get_contact(contact_key)` to get a contact from its key, or `.get_contact(field=value)`, to get the contact from an address field `field` having a value `value`.

Contact key example: contact = api.get_contact('abcdef123456')

Field/value example: contact = api.get_contact(msisdn='+12345')

Parameters

- **contact_key** (*str*) – Key for the contact to get.
- **field** (*str*) – `field` is the address field that is searched on (e.g. `msisdn`, `twitter_handle`). The value of `field` is the value to search for (e.g. `+12345`, *@foobar*').

get_group(*group_key*)
Get a group

Parameters **group_key** (*str*) – Key for the group to get

group_contacts(*group_key*, *start_cursor=None*)
Retrieve all group contacts.

This uses the API's paginated contact download.

Parameters

- **group_key** (*str*) – Key for the group to query.
- **start_cursor** – An optional parameter that declares the cursor to start fetching the contacts from.

Returns An iterator over all group contacts.

update_contact(*contact_key*, *update_data*)
Update a contact.

Parameters

- **contact_key** (*str*) – Key for the contact to update.
- **update_data** (*dict*) – Fields to modify.

update_group(*group_key*, *update_data*)
Update a group.

Parameters

- **group_key** (*str*) – Key for the group to update.
- **update_data** (*str*) – Fields to modify.

CHAPTER 3

HTTP API Conversation Client

class go_http.send.**HttpApiSender**(*account_key*, *conversation_key*, *conversation_token*, *api_url=None*, *session=None*)

A helper for sending text messages and firing metrics via Vumi Go's HTTP API.

Parameters

- **account_key** (*str*) – The unique id of the account to send to. You can find this at the bottom of the Account > Details page in Vumi Go.
- **conversation_key** (*str*) – The unique id of the conversation to send to. This is the UUID at the end of the conversation URL.
- **conversation_token** (*str*) – The secret authentication token entered in the conversation config.
- **api_url** (*str*) – The full URL of the HTTP API. Defaults to `https://go.vumi.org/api/v1/go/http_api_nostream`.
- **session** (`requests.Session`) – Requests session to use for HTTP requests. Defaults to a new session.

fire_metric(*metric*, *value*, *agg='last'*)

Fire a value for a metric.

Parameters

- **metric** (*str*) – Name of the metric to fire.
- **value** (*float*) – Value for the metric.
- **agg** (*str*) – Aggregation type. Defaults to `'last'`. Other allowed values are `'sum'`, `'avg'`, `'max'` and `'min'`.

Note that metrics can also be fired via the metrics API. See *go_http.metrics.MetricsApiClient.fire()*.

send_text(*to_addr*, *content*, *session_event=None*)

Send a text message to an address.

Parameters

- **to_addr** (*str*) – Address to send to.
- **content** (*str*) – Text to send.
- **session_event** (*str*) – The session event for session-based messaging channels (e.g. USSD). May be one of 'new', 'resume' or 'close'. Optional.

send_voice(*to_addr*, *content*, *speech_url=None*, *wait_for=None*, *session_event=None*)
Send a voice message to an address.

Parameters

- **to_addr** (*str*) – Address to send to.
- **content** (*str*) – Text to send. If `speech_url` is not provided, a text-to-speech engine is used to generate a voice message from this text. If `speech_url` is provided, this text is ignored by voice messaging channels, but may still be used by non-voice channels that process the message.
- **speech_url** (*str*) – A URL to a voice file containing the voice message to sent. If not given, a voice message is generated from `content` using a text-to-speech engine. Optional.
- **wait_for** (*str*) – By default the Vumi voice connections send a response to a message as soon as a key is pressed by the person the call is with. The `wait_for` option allows specifying a character to wait for before a response is returned. For example, without `wait_for` pressing '123#' on the phone would result in four response messages containing '1', '2', '3' and '#' respectively. If `wait_for='#'` was set, pressing '123#' would result in a single response message containing '123'. Optional.
- **session_event** (*str*) – The session event. May be one of 'new', 'resume' or 'close'. 'new' initiates a new call. 'resume' continues an existing call. 'close' ends an existing call. The default of `None` is equivalent to 'resume'.

CHAPTER 4

Metrics API Client

class go_http.metrics.**MetricsApiClient**(*auth_token*, *api_url=None*, *session=None*)
Client for Vumi Go's metrics API.

Parameters

- **auth_token** (*str*) – An OAuth 2 access token. NOTE: This will be replaced by a proper authentication system at some point.
- **api_url** (*str*) – The full URL of the HTTP API. Defaults to `https://go.vumi.org/api/v1/go`.
- **session** (`requests.Session`) – Requests session to use for HTTP requests. Defaults to a new session.

fire(*metrics*)
Fire metrics.

Parameters **metrics** (*dict*) – A mapping of metric names to floating point metric values.

When metrics are fired they must specify an aggregator. The aggregation method is determined by the suffix of the metric name. For example, `foo.last` fires a metric that uses the `last` aggregation method.

If a metric name does not end in a valid aggregator name, firing the set of metrics will fail.

The available aggregators are:

Average `avg`. Aggregates by averaging the values in each time period.

Sum `sum`. Aggregates by summing all the values in each time period.

Maximum `max`. Aggregates by choosing the maximum value in each time period.

Minimum `min`. Aggregates by choosing the minimum value in each time period.

Last `last`. Aggregates by choosing the last value in each time period.

Note that metrics can also be fired via an HTTP conversation API. See *go_http.send.HttpApiSender.fire_metric()*.

get_metric(*metric*, *start*, *interval*, *nulls*, *end=None*)
Get a metric.

Parameters

- **metric** (*str*) – Metric name.
- **start** (*str*) – How far back to get metrics from (e.g. *-30d*).
- **interval** (*str*) – Bucket size for grouping (e.g. *1d*).

- **nulls** (*str*) – How nulls should be handled (e.g. *omit*).
- **end** (*str*) – When to get metrics until (e.g. *-30d*).

CHAPTER 5

Optouts API Client

class go_http.optouts.**OptOutsApiClient**(*auth_token*, *api_url=None*, *session=None*)

Client for Vumi Go's opt out API.

Parameters

- **auth_token** (*str*) – An OAuth 2 access token.
- **api_url** (*str*) – The full URL of the HTTP API. Defaults to `https://go.vumi.org/api/v1/go`.
- **session** (`requests.Session`) – Requests session to use for HTTP requests. Defaults to a new session.

count()

Return a count of the total number of opt out records.

Returns The total number of opt outs (an integer).

Example:

```
>>> client.count()
215
```

delete_optout(*address_type*, *address*)

Remove an out opt record.

Parameters

- **address_type** (*str*) – Type of address, e.g. *msisdn*.
- **address** (*str*) – The address to remove the opt out record for, e.g. *+271235678*.

Returns The deleted opt out record (a dict) or None if the API returned an HTTP 404 reponse.

Example:

```
>>> client.delete_optout('msisdn', '+12345')
{
    u'created_at': u'2015-11-10 20:33:03.742409',
    u'message': None,
    u'user_account': u'fxxxeee',
}
```

get_optout(*address_type*, *address*)

Retrieve an opt out record.

Parameters

- **address_type** (*str*) – Type of address, e.g. *msisdn*.
- **address** (*str*) – The address to retrieve an opt out for, e.g. *+271235678*.

Returns The opt out record (a dict) or *None* if the API returned a 404 HTTP response.

Example:

```
>>> client.get_optout('msisdn', '+12345')
{
    u'created_at': u'2015-11-10 20:33:03.742409',
    u'message': None,
    u'user_account': u'fxxxeee',
}
```

set_optout(*address_type*, *address*)

Register an address as having opted out.

Parameters

- **address_type** (*str*) – Type of address, e.g. *msisdn*.
- **address** (*str*) – The address to store an opt out for, e.g. *+271235678*.

Returns The created opt out record (a dict).

Example:

```
>>> client.set_optout('msisdn', '+12345')
{
    u'created_at': u'2015-11-10 20:33:03.742409',
    u'message': None,
    u'user_account': u'fxxxeee',
}
```

CHAPTER 6

Indices and tables

- genindex
- modindex
- search

A

AccountApiClient (class in go_http.account), 3

C

campaigns() (go_http.account.AccountApiClient method), 3
channels() (go_http.account.AccountApiClient method), 3
contacts() (go_http.contacts.ContactsApiClient method), 5
ContactsApiClient (class in go_http.contacts), 5
conversations() (go_http.account.AccountApiClient method), 3
count() (go_http.optouts.OptOutsApiClient method), 11
create_contact() (go_http.contacts.ContactsApiClient method), 5
create_group() (go_http.contacts.ContactsApiClient method), 5

D

delete_contact() (go_http.contacts.ContactsApiClient method), 5
delete_group() (go_http.contacts.ContactsApiClient method), 5
delete_optout() (go_http.optouts.OptOutsApiClient method), 11

F

fire() (go_http.metrics.MetricsApiClient method), 9
fire_metric() (go_http.send.HttpApiSender method), 7

G

get_contact() (go_http.contacts.ContactsApiClient method), 5
get_group() (go_http.contacts.ContactsApiClient method), 6
get_metric() (go_http.metrics.MetricsApiClient method), 9
get_optout() (go_http.optouts.OptOutsApiClient method), 11
group_contacts() (go_http.contacts.ContactsApiClient method), 6

H

HttpApiSender (class in go_http.send), 7

M

MetricsApiClient (class in go_http.metrics), 9

O

OptOutsApiClient (class in go_http.optouts), 11

R

routers() (go_http.account.AccountApiClient method), 3
routing_entries() (go_http.account.AccountApiClient method), 3
routing_table() (go_http.account.AccountApiClient method), 3

S

send_text() (go_http.send.HttpApiSender method), 7
send_voice() (go_http.send.HttpApiSender method), 7
set_optout() (go_http.optouts.OptOutsApiClient method), 12

U

update_contact() (go_http.contacts.ContactsApiClient method), 6
update_group() (go_http.contacts.ContactsApiClient method), 6
update_routing_table() (go_http.account.AccountApiClient method), 3