
pydatamailbox Documentation

Release 0.1.0

Guillaume Thomas

Sep 23, 2021

Contents:

1	Usage	3
2	API Reference	5
2.1	DataMailbox	5
2.2	M2Web	7
3	Indices and tables	9
	Index	11

pydatamail is an unofficial client for the Ewon's datamailbox web APIs.

CHAPTER 1

Usage

```
from pydatamailbox import DataMailbox

client = DataMailbox(
    account="test",
    username="test",
    password="test",
    devid="test",
)

# Retrieve status
client.getstatus()

# Retrieve all ewons
client.getewons()

# Retrieve an ewon by id
client.getewon(ewonid=1)

# Retrieve an ewon by name
client.getewon(name="test")

# Iterate on all the data by chunk
for data in client.iterate_syncdata():
    pass

# get tag dat for a given period
client.getdata(1, 1, '2021-07-15T12:30:20', '2021-07-15T12:30:33')
```


2.1 DataMailbox

class `pydatamailbox.client.DataMailbox` (*account*, *devid*, *timeout=None*, ***kwargs*)

Talk2M `DataMailbox` api client. This client only supports: `getstatus`, `getewons`, `getewon`, `syncdata`, `getdata`

The authentication is done by providing either *username* and *password* or *token*.

getdata (*ewon_id*, *tag_id*, *from_ts*, *to_ts*, *limit=None*)

`getdata` is used as a “one-shot” request to retrieve filtered data based on specific criteria. It is not destined to grab historical data with the same timestamp or enormous data involving the use of the `moreData` filter.

Parameters

- **ewon_id** (*int*) – The ID of the single Ewon gateway for which data from DataMailbox is requested.
- **tag_id** (*int*) – ID of the single tag for which data from DataMailbox is requested.
- **from_ts** (*str*) – Timestamp after which data should be returned. No data older than this time stamp will be sent in ISO format.
- **to_ts** (*str*) – Timestamp before which data should be returned. No data newer than this time stamp will be sent in ISO format
- **limit** (*int*) – The maximum amount of historical data returned. The historical data is the historical tag values but also the historical alarms. If you set the limit to 4, the response will consist in 4 historical tag values and 4 historical alarms (if available) for each tag of each Ewon gateway allowed by the Talk2M token. If the size of the historical data saved in the DataMailbox exceeds this limit, only the oldest historical data will be returned and the result contains a `moreDataAvailable` value indicating that more data is available on the server. If limit is not used or is too high, the DataMailbox uses a limit pre-defined in the system (server-side).

getewon (*ewonid=None*, *name=None*)

Returns the configuration of the targeted Ewon as seen by the DataMailbox.

Parameters

- **ewonid** – ID of the Ewon as returned by the “getewons” API request.
- **name** – Name of the Ewon as returned by the “getewons” API request.

getewons ()

Returns the list of Ewons sending data to be stored in the DataMailbox. The result contains the following information for each Ewon:

- its name and id,
- its number of tags,
- the date of its last data upload to the Data Mailbox.

getstatus ()

Returns the storage consumption of the account and of each Ewon.

The result contains the following information:

- number of history points currently stored in the DataMailbox for this account,
- number of Ewons which send data to the DataMailbox.

The result also contains the following information for each Ewon listed:

- its id,
- its name,
- its number of history points currently stored in the DataMailbox,
- its date of the first history point currently saved in the DataMailbox,
- its date of the last history point currently saved in the DataMailbox.

iterate_syncdata (*last_transaction_id=None, ewon_ids=None*)

Returns an iterator on syncdata.

The syncdata API returns partial data and indicates if there are more data to load with *moreDataAvailable*. This helper will act as an iterator and yield an api response until there are no more data.

Parameters

- **last_transaction_id** – The ID of the last set of data sent by the DataMailbox. By referencing the “lastTransactionId”, the DataMailbox will send a set of data more recent than the data linked to this transaction ID.
- **ewon_ids** (*list*) – A list of Ewon gateway IDs. If ewonIds is used, DataMailbox sends values history of the targeted Ewon gateways. If not used, DataMailbox sends the values history of all Ewon gateways.

syncdata (*last_transaction_id=None, create_transaction=True, ewon_ids=None*)

Retrieves all data of a Talk2M account incrementally. You must be cautious when using the combination of *last_transaction_id*, *create_transaction* and *ewon_ids*. *last_transaction_id* is first used to determine what set of data — newer than this transaction id and from all the Ewon gateways — must be returned from the DataMailbox, then *ewon_ids* filters this set of data to send data only from the desired Ewon gateways. If a first request is called with *last_transaction_id*, *create_transaction* and *ewon_ids*, the following request — implying a new *last_transaction_id* — does not contain values history from the previous *last_transaction_id* of the Ewon gateways that were not in the *ewon_ids* from previous request.

Parameters

- **last_transaction_id** (*int*) – The id of the last set of data sent by the DataMailbox. By referencing the *last_transaction_id*, the DataMailbox will send a set of data more recent than the data linked to this transaction ID.
- **create_transaction** (*bool*) – The indication to the server that a new transaction ID should be created for this request.
- **ewon_ids** (*list*) – A list of Ewon gateway IDs. If *ewonIds* is used, DataMailbox sends values history of the targeted Ewon gateways. If not used, DataMailbox sends the values history of all Ewon gateways.

2.2 M2Web

class pydatamailbox.client.**M2Web** (*account, username, password, devid, timeout=None*)
Talk2M M2Web api client.

This client only supports: getaccountinfo, getewons, getewon

getaccountinfo ()

Retrieves the basic account information (reference, name, company).

It also retrieves the set of pools visible by user : pairs name/id as well as the name of each custom attribute. There are always 3 custom attributes listed. Some or all of them may be empty. The “accountType” attribute will either be “Free” (for non paying account) or “Pro” (for paying account).

getewon (*ewonid=None, name=None*)

Returns the configuration of the targeted Ewon as seen by the DataMailbox.

Parameters

- **ewonid** – ID of the Ewon as returned by the “getewons” API request.
- **name** – Name of the Ewon as returned by the “getewons” API request.

getewons (*pool=None*)

Returns the set of Ewons visible by user along with their properties: displayable names, link names, status, description, the 3 custom attributes, preferred m2web server hostname (currently always m2web.talk2m.com).

Parameters pool (*int*) – *pool* is the optional numerical id of the pool from which the Ewons should be retrieved. Pool id’s are retrieved using a *getaccountinfo* call. If *pool* is not specified, all visible Ewons are listed in the response.

CHAPTER 3

Indices and tables

- `genindex`
- `modindex`
- `search`

D

DataMailbox (*class in pydatamailbox.client*), 5

G

getaccountinfo() (*pydatamailbox.client.M2Web method*), 7

getdata() (*pydatamailbox.client.DataMailbox method*), 5

getewon() (*pydatamailbox.client.DataMailbox method*), 5

getewon() (*pydatamailbox.client.M2Web method*), 7

getewons() (*pydatamailbox.client.DataMailbox method*), 6

getewons() (*pydatamailbox.client.M2Web method*), 7

getstatus() (*pydatamailbox.client.DataMailbox method*), 6

I

iterate_syncdata() (*pydatamailbox.client.DataMailbox method*), 6

M

M2Web (*class in pydatamailbox.client*), 7

S

syncdata() (*pydatamailbox.client.DataMailbox method*), 6