



Vayeron xBud API Documentation

Version 0.1.0

Please note

As we work through the development of the prototype, this API will be expanded upon. You can use this guide to build your base calls, and as we expand the API (there will be more data available to use) we will maintain versioning to ensure backwards compatibility.

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Reading this document

This document describes the Vayeron xBud API.

The API is used for communications between the xBud API and Third-Party Systems.

This document is a preliminary specification of the communication protocol, as such it may require further refinement in future as the prototype progresses.

General

The Server shall present a REST API over HTTPS.

Security

All API endpoints require a valid API Token to be included in the request header. The header field should be named "X-API-Token".

Any requests which do not include the API Token field will receive a 401 response. Any requests with an API Token which do not grant access to the requested resource will receive a 403 response.

Format

The body of all requests and responses must be in JSON format.

Result Codes

Result codes from the commands are defined in accordance with the HTTP standard.

Limitations

The API is designed as a read-only interface.

Request Filtering and Pagination

For requests where greater than one result may be returned, dataset size limits and pagination will be automatically applied. If you were expecting a smaller number of results, then filtering parameters (as listed in each request definition) can be used to limit the number of results returned.

All request responses that return a list of results support the following parameters:

Parameter	Description	Default	Example
page	Defines the current page in the dataset	1	?page=1
limit	Defines the number of results returned in each data page	25	?limit=25

Parameters can be joined using an &. e.g. ?page=2&limit=100

API

/Buds

Endpoint

https://{{targetUrl}}/api/v1/buds

Method

GET

Properties

Name	Type	Description
ID	Int	Unique identifier set automatically by server.
PanId	String	Variable network ID set by user
Gateway	Object	Gateway the bud is linked to. Object includes: <ul style="list-style-type: none">- Gateway ID- Nice Name- Last Connect
NiceName	String	Configurable name to help identify bud
Status	String	Unconfigured, Configured, Learning

/Data

Endpoint

https://{{targetUrl}}/api/v1/data

{optional filter: page + data limit + after}

https://{{targetUrl}}/api/v1/data?page=1&limit=100&after=01022023

Filters:

Page: for paginated responses (total results divided by limit)

Limit: determines number of results in each page

After: data received on or after the set date. Formatted DDMMYYYY (no spaces) based on AEST.

Method

GET

Properties

Name	Type	Description
bud	Object	Bud Object including: <ul style="list-style-type: none">- Bud ID- Bud NiceName
Data	Object	Data object <ul style="list-style-type: none">- Datestamp- Axis- Sampling Frequency- Number of samples- Data (array of samples)

/Alerts

Endpoint

https://{{targetUrl}}/api/v1/alerts

{optional filter: page + data limit + after}

https://{{targetUrl}}/api/v1/alerts?page=1&limit=100&after=01022023

Filters:

Page: for paginated responses (total results divided by limit)

Limit: determines number of results in each page

After: alerts received on or after the set date. Formatted DDMMYYYY (no spaces) based on AEST.

Method

GET

Properties

Name	Type	Description
ID	Int	Unique identifier
Date	timestamp	Timestamp of when the alert was triggered
Value	String	Detail of alert including condition