OpenAquaponics – Notional version 1.0 API

Paths are relative to: [www.api.opensourceaquaponics.com/v1/](http://www.api.opensourceaquaponics.com/v1/)

UID = User ID

SID = System ID

NID = Node ID

TID = Task ID

AID = Accounting ID

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| **TYPE** | **RESOURCE** | **AUTH** | **DESCRIPTION** |
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| GET | /OACommunity | FALSE | High level statistics, number of users, total up time, number of groups, number of systems, number of nodes, a sample plot from a public account, etc. |
| GET | /OACommunity/OAUsers | FALSE | Gets a listing of the public users, should support some kind of search feature. |
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| GET | /OAGroups | FALSE | List of groups users can be members of (ie: personal, commercial, research, Utah Aquaponics Grows Association, etc) |
| PUT | /OAGroups | TRUE | Create a new group |
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| GET | /{UID}/OAUser | FALSE | Gets basic user information (nothing sensitive) |
| GET | /{UID}/OAUser | TRUE | Gets all user information (potentially sensitive) |
| PUT | /{UID}/OAUser | TRUE | Puts the updated user information |
| POST | /{UID}/OAUser | FALSE | Attempts to create new user and authenticates via email; Locks out IP after ‘x’ attempts, etc. |
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| GET | /{UID}/OASystems | TRUE/FALSE | Get the list of OASystems attached to this user; Can be public/private |
| POST | /{UID}/OASystems | TRUE | Create a new OASystem IDs for this system, system name, system description, group association, public/private, etc. |
| GET | /{UID}/OASystems/{SID} | TRUE/FALSE | Get the list of OANode IDs for this system, system name, system description, group association, etc; Can be public/private |
| PUT | /{UID}/OASystems/{SID} | TRUE | Update the list of OANode IDs for this system, system name, system description, group association, public/private, etc. |
| DELETE | /{UID}/OASystems/{SID} | TRUE | Deletes a system pairing of OANodes and gives the OANode no grouping |
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| GET | /{UID}/OANodes | TRUE/FALSE | Get the list of OANodes attached to this user; Can be public/private |
| POST | /{UID}/OANodes | TRUE | Create a new OANode ID for this system, system name, system description, group association, public/private, etc. Also creates the OANode\data MySQL table. |
| GET | /{UID}/OANodes/{NID} | TRUE/FALSE | Get the OANode IDs, node name, node description, hardware configuration (pins, units, etc), get the OATasks attached to this node, group association, etc; Can be public/private |
| PUT | /{UID}/OANodes/{NID} | TRUE | Update the node name, node description, hardware configuration (pins, units, etc), get the OATasks attached to this node, group association, public/private, etc. |
| DELETE | /{UID}/OANodes/{NID} | TRUE | Deletes a OANode from the database and all associated data |
| GET | /{UID}/OANodes/{NID}/data | TRUE/FALSE | Get the OANode IDs sampled data, allows some type of data thresholding and selection; Can be public/private |
| POST | /{UID}/OANodes/{NID}/data | TRUE | Creates OANode sample data onto the server |
| PUT | /{UID}/OANodes/{NID}/data | TRUE | Modifies OANode sample data onto the server |
| DELETE | /{UID}/OANodes/{NID}/data | TRUE | Deletes the OANode data from the database, can support some data selection (ie: by date, by row, etc) |
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| GET | /{UID}/OATasks | TRUE | List all of the monitoring tasks associated with the user |
| POST | /{UID}/OATasks | TRUE | Create a new monitoring task associated with a OANode or list of OANodes |
| GET | /{UID}/OATasks/{TID} | TRUE | Get the monitoring task associated with a OANode or list of OANodes |
| PUT | /{UID}/OATasks/{TID} | TRUE | Update a particular monitoring task associated with a OANode |
| DELETE | /{UID}/OATasks/{TID} | TRUE | Delete a particular monitoring task |
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| GET | /{UID}/OAAccounting | TRUE | List all of the monetary transactions of the user; supports selectable sets by UID, SID, NID, date, amount, etc |
| POST | /{UID}/OAAccounting | TRUE | Create new transaction in the list |
| GET | /{UID}/OAAccounting/{AID} | TRUE | Get the particular transaction |
| PUT | /{UID}/OAAccounting/{AID} | TRUE | Update transaction |
| DELETE | /{UID}/OAAccounting/{AID} | TRUE | Delete a transaction from the list |
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