

Exploratory testing report - Alexander Gallen 02.05

Exploratory testing aimed to find potential issues in the following test API by Virta:

`https://api-energy-k8s.test.virtaglobal.com/v1/tests/{stationId}`

- Stations 1-5 are to be tested.
- The following properties of the API are to be tested:
 - **getVersion (get version number)**
 - **getInterval (get the interval in which the station is reporting values)**
 - **setValues (sets the interval for the value reporting)**

1. getVersion test

Stations 1-4 successfully returns a version (1.5, 1.6, 1.6 and 1.7). Since no further information is available in the brief this is deemed satisfactory. For future tests this could be tested either by just checking if a version is returned, if a version matches a specific version, or if a version is greater than or equal to a specific version.

Station 5 returns Error code 500 - Internal Server error

2. getInterval test

Stations 1-4 successfully returns an interval (0,1,20,60).

Since no further information is available these seem to be working okay. Would investigate further to validate what an interval of 0 means (probably default?) , and what unit the time interval stands for.

Station 5 returns Error code 500 - Internal Server error

3. setValues test

Possible values returned are "FAILED" and "OK" according to the documentation.

Stations 1-2 return "FAILED" instead of "OK"

Station 3 returns "OK"

Station 4 returns true.

This state has to be investigated further since there is no mention about this response in the documentation.

Station 5 returns Error code 500 - Internal Server error

4. Test whether setValues actually updated the interval returned from getInterval API

Stations 3 still return the old interval value even though the setValues API call returned "OK". Seems like the setValues API endpoint didn't properly update the interval values for the stations since the getInterval endpoint doesn't reflect the changes previously made through the setValues endpoint.

Station 5 not working.

Conclusion

- Station 5 is down/broken
- For some reason setValues is failing for stations 1 and 2, and possibly 4.
- setValues endpoint isn't working properly, the updated values aren't stored at the stations.
- setValues endpoint has some discrepancies between the documentation and the actual functionality. In addition to the "OK" and "FAILED" states, there exists a *true* state that isn't mentioned, and should be investigated further and fixed.