Usage Meter Instructions for Home Assistant

Pre-requisites

1. The usage retrieval uses a bash script to retrieve the usage json file from Aussie Broadband. This is then written via a Rest API to a sensor in Home Assistant.

2. Your Home Assistant installation needs to have a Long Term Access Token generated from your profile in Home Assistant. In the side panel, select your initial at the top and down the bottom create an access token. You can call it whatever you like. You will receive a very long text string for the token. You will need to enter this in the script.

3. The Lovelace cards I supply require 2 custom cards. config-template-card and bar-card available here:
   https://github.com/custom-cards/config-template-card
   https://github.com/custom-cards/bar-card

Using it

1. Place abbusage.sh in your home folder or somewhere you can access it. You need to make it executable. (chmod +x abbusage.sh) On my system the script is 'owned' by the local user (me).

2. Copy abb.png to your config/www/icons/abb folder or edit the script if you use a different location. You will need to create the folder.

3. You can put it in the hass config folder along with your configuration.yaml file but I have it in my home folder. You also could use a shell_command to execute the script and use an automation to run it every 15 minutes or whatever interval you desire. I use a crontab though. Because I always seem to come to grief with crontab, I add it to the root crontab on my system.
   sudo crontab -e
   then add this line:
   */15 * * * * /home/david/abbusage.sh
   That will run it every 15 minutes. /home/david is my home directory. Modify to suit.

4. Edit the abbusage.sh file and add your ABB login and Service identifier as well as Home Assistant details. DO NOT edit anything else in there..
NOTE: server can be http://x.x.x.x (IP Address) or https://domain.tld In the case you are using ssl, leave the port blank although it will work with port 443 as well (or any other port)

Aussie Broadband Details

abblogin =*******
abbpassword =*******
useageid=******

Home Assistant Config

server=*******
port=8123
token=*******
entitypicture=/local/icons/abb/abb.png

Note that the usageid/Service Identifier comes from the ABB Website. To find it, login and click on your service at the top. It should display usage. The look in the address bar at the top..
https://my.aussiebroadband.com.au/#/nbn/******/ the ****** a 6 digit number is your usage id.

5. Once you have edited that in, run the script. If all is well, your usage has been posted to a abb_usage sensor.
6. No customisations are required in configuration or customize.yaml files!
7. There is no need to restart home assistant.

8. All being well if you go to dev-tools, states<> and type in abb you should see something like this:

Current entities

Entity	State	Attributes ✓
Filter entities abb ✕	Filter states	Filter attributes
⤴ sensor.abb_usage		usage: usedMb: 646609 downloadedMb: 535419 uploadedMb: 111190 remainingMb: null daysTotal: 31 daysRemaining: 9 lastUpdated: 2019-03-28T11:57:03+11:00 nextRollover: 2019-04-06T00:00:00+11:00 daysUsed: 23 friendly_name: ABB Usage icon: mdi:blank entity_picture: /local/icons/abb/abb.png

9. Next edit your lovelace (use the raw editor or yaml if your lovelace is in yaml mode and add the lovelace.yaml file to an appropriate place. I have it in a vertical stack. It looks like this if all is well. (See next page)

ABB Usage

Last Update at Thu, 28 Mar 2019 at 11:57:03 am

Updated 24 minutes ago

Used 23.50 days - 75.81% of month

Projected Use 852.93 GB

Next Rollover Sat, 6 Apr 2019

Today is Day 23 of 31 days

Downloaded 535.42 GB

Uploaded 111.19 GB

Total 646.61 GB of Unlimited GB

Month Use	23 days