Usage Meter Instructions for Home Assistant

Pre-requisites

1. Needs to be running on a 'regular' linux distribution (not HassOS). This is because of number 2 below.
2. The usage retrieval uses a bash script to retrieve the usage json file from Aussie Broadband. This then requires the Linux package mosquito-clients installed to publish the JSON data to an Mosquitto broker.
   sudo apt-get install mosquito-tools
   Should install the package.
3. Your Home Assistant installation needs to have an Mosquitto Broker running and you need to supply the username, password and IP address in the script. It also assumes the default port 1883 which you can change in the script in the setup options.
4. 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 customize if you use a different location. You will need to create the folder.
3. You could 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 MQTT details. DO NOT edit anything else in there..

   # Aussie Broadband Details

   abblogin=*******
   abbpassword=*******
   usageid=******

   # Mosquitto Broker Details

   mqttuser=*******
   mqttpassword=*******
   mqttbroker=*******
   mqttport=1883

   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 the Mosquitto broker. You can verify this by using MQTT.FX or even better, MQTT Explorer.

6. Edit configuration.yaml to add the sensor:
   # Sensors
   sensor:
   # ABB Usage
     - platform: mqtt
       name: "ABB Usage"
       state_topic: "abb/abbusage"
       icon: mdi:blank

```
value_template: "{{ value_json.usage }}"
json_attributes_topic: "abb/abbusage"
```

7. Edit customize.yaml to include the icon for ABB
   sensor.abb_usage:
   ```
   entity_picture: '/local/icons/abb/abb.png'
   ```

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

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.

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