Usage Meter Instructions for Home Assistant

Pre-requisites

1. The usage retrieval uses a bash script to configure your user credentials for ABB and also Home Assistant. If you have previously run the abbcreds.sh script, it will display the last entered values and you can just press [ENTER] if they are unchanged, otherwise enter new details. You WILL need to rerun abbcreds.sh if you change your password. IF you run abbusage_ha.sh BEFORE running the abbcreds.sh, you will be prompted to run abbcreds.sh which creates abbcreds.json containing user information, downloads the ABB refresh token (abbtoken.json) and downloads the ABB Cookie (abbcookie.txt).
2. The abusage_ha.sh script needs to be configured in configuration.yaml as a shell_command:
   shell_command:
     abbusage: /bin/bash /config/abbusage/abbusage_ha.sh
3. An automation needs to be added to run the script at startup and then at 15 minute intervals:
   - id: 'updateabbusage'
     alias: Update ABB Usage
     trigger:
     - event: start
       platform: homeassistant
     - platform: time_pattern
       minutes: '/15'
     action:
     - service: shell_command.abbusage
     initial_state: 'true'
4. 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

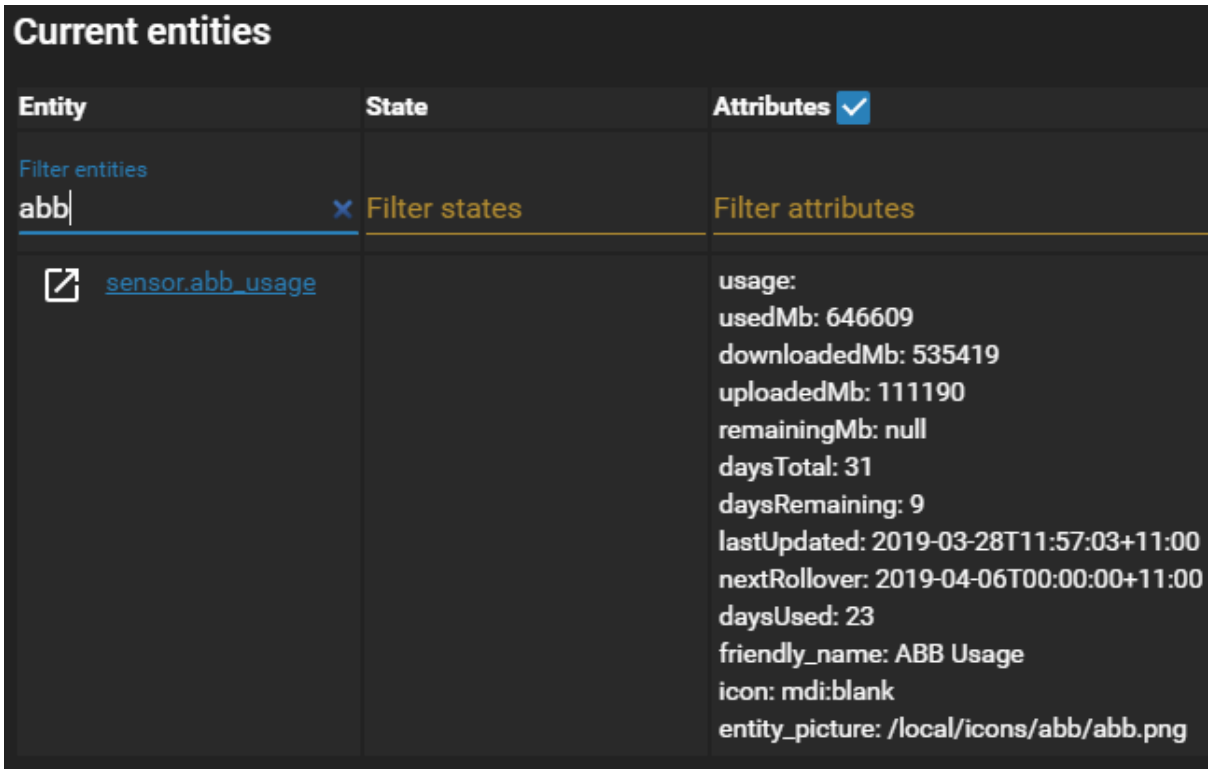
string for the token. You will need to enter this when prompted by abbcreds.sh in step 1 above.

5. 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)
2. Copy abb.png to your config/www/icons/abb folder or enter the location when you run abbcreds.sh – the default offered in that script assumes the above location. You will need to create the abb folder.
3. You can put it in the hass config folder along with your configuration.yaml file but I have it in a subdirectory.. /config/abbusage. This will keep all the cookies and tokens together.
4. Do not directly edit the abbusage.sh file. All required settings are made by running abbcreds.sh It will prompt you to enter your ABB username, password and Service identifier as well as Home Assistant url, long term access token and entitypicture. DO NOT edit anything else in there..
   NOTE: server can be http://x.x.x.x:port (IP Address) or https://domain.tld:port In the case you are using ssl, leave the port blank although it will work with port 443 as well (or any other port) The Port number is at the end of the URL
   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 entered those details in abbcreds.sh, all files will be created and you can then run the abusage_ha.sh. 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:



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

10. When the cookie is 100 days from expiring, the usage script will automatically refresh it – you should not need to do or change anything! IF you change your password, all tokens are invalidated and you will need to run the abbcreds.sh script again.

feedback to david@dew-itwebservices.com.au

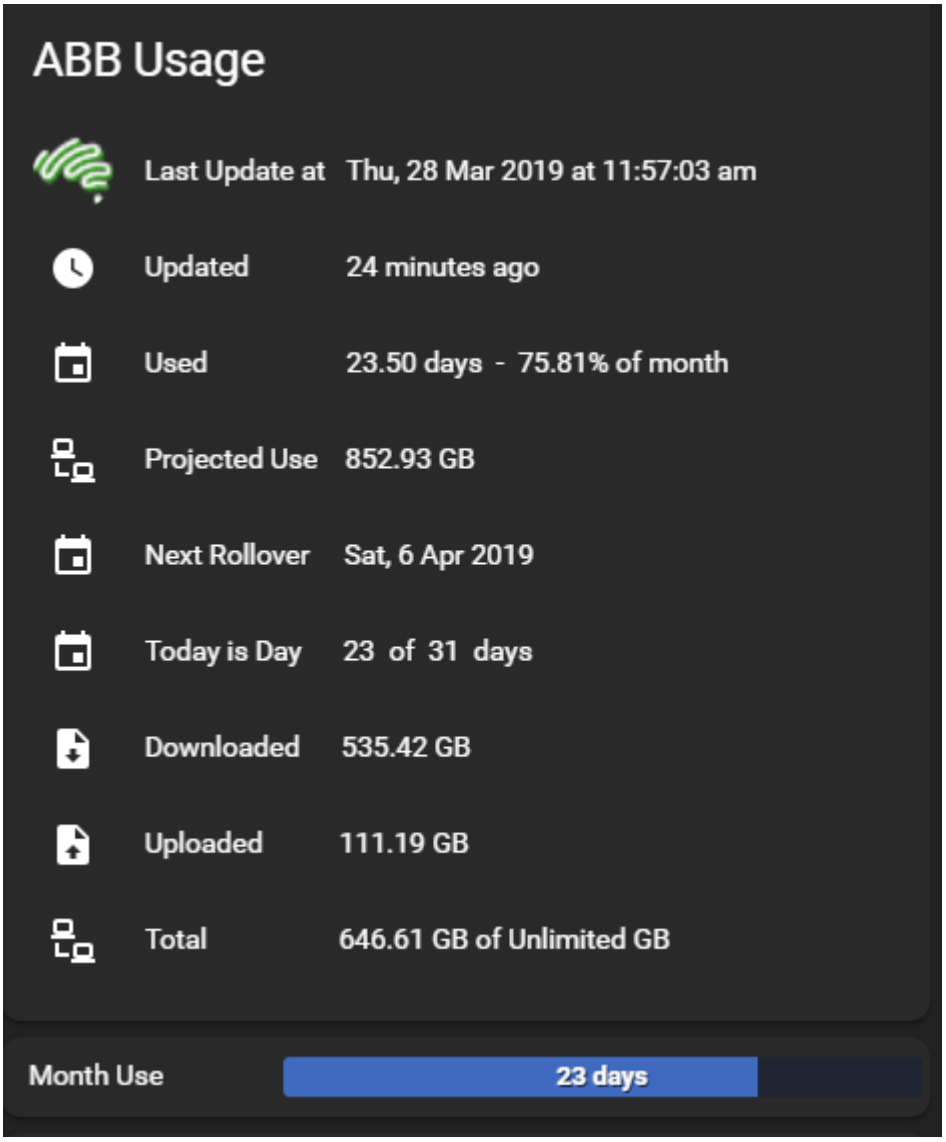


ABB Usage
Last Update at Thu, 28 Mar 2019 at 11:57:03 am
Updated 24 minutes ago
Used 23.50 days - 75.81% of month
Projected Use 852.93 GB
Next Rollover Sat, 6 Apr 2019
Today is Day 23 of 31 days
Downloaded 535.42 GB
Uploaded 111.19 GB
Total 646.61 GB of Unlimited GB
Month Use
23 days