



## 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. I have discovered the rollover date does not calculate

correctly if the script is run from a shell command so if you use that you will need to modify the template in lovelace to display this. I may try to fix this in the future.

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: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

# Aussie Broadband Details

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

# Home Assistant Config


```
server=*****: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/\\*\\*\\*\\*\\*/](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 <input checked="" type="checkbox"/>
<div>Filter entities</div> <div>abb</div>	<div>Filter states</div>	<div>Filter attributes</div>
<div> <a href="#">sensor.abb_usage</a></div>		<div>usage:</div> <div>usedMb: 646609</div> <div>downloadedMb: 535419</div> <div>uploadedMb: 111190</div> <div>remainingMb: null</div> <div>daysTotal: 31</div> <div>daysRemaining: 9</div> <div>lastUpdated: 2019-03-28T11:57:03+11:00</div> <div>nextRollover: 2019-04-06T00:00:00+11:00</div> <div>daysUsed: 23</div> <div>friendly_name: ABB Usage</div> <div>icon: mdi:blank</div> <div>entity_picture: /local/icons/abb/abb.png</div>

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