

Homeseer

Plugwise integration



Plugwise

HOMESEER®

Version 0.10

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This script allows you to integrate Plugwise modules in your Homeseer system

Purpose Homeseer script for Database Integration

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Visit the website for feedback, support and more information.

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Document changes

- Dec-30 2010: Created PDF help file based on the old readme.txt
- Mar-02 2011: updated this help document with screenshots and more accurate information

Features & Screenshots

This release of the Homeseer Plugwise integration supports the following features.

- Read Plugwise usage
- Add total Plugwise usage to device
- Example

64 W (1251 kWh)	1-Meterkast	Plugwise	Meterkast	Q13
0 W (885 kWh)	1-Kitchen	Plugwise	Boiler	Q14
0 W (101 kWh)	2-Bedroom	Plugwise	TV Bedroom	Q15
0 W (84 kWh)	1-Livingroom	Plugwise	TV power-off	Q16
0 W (191 kWh)	2-Office	Plugwise	Office power-off	Q17
0 W (10 kWh)	2-Office	Plugwise	Transit Module	Q20
531 W	1-Meterkast	Plugwise	Current Total	Q98

- To switch Plugwise modules you can call the DJ_SwitchPlugwise_xx.vb script (instructions in this document)

Requirements

Software:

- Homeseer 2.4/2.5 or higher (2.3 not tested but will probably work)
<http://www.homeseer.com>
- Plugwise Source version 20100326 or higher (previous releases not tested)
Make sure the webservice is enabled and the username and password are blank
You could test with a username and password and enter these in the RSS feed URL. Example:
`http://username:password@<IP_Plugwise>:<port>/DJ_RSS_XML_xx.xml`

Hardware

- Plugwise Stick, Circle+ and Circle modules

Files

Base directory: C:\Program Files\Homeseer 2\

DJ_Plugwise_xx.vb	\Scripts\	HS VB script to get Plugwise status & info
DJ_SwitchPlugwise_xx.vb	\Scripts\	HS VB script to switch Plugwise modules
DJ_Plugwise_RSS_xx.xml	..\Plugwise\Source\www	RSS script that grabs the Plugwise info
cc.html	..\Plugwise\Source\www	HTML that allows you to switch Plugwise devices
DJ_Plugwise_ON.gif	\Images\	image (device=on)
DJ_Plugwise_OFF.gif	\Images\	image (device=off)
DJ_Plugwise_alert.gif	\Images\	image (device=not in network)
DJ_Plugwise_ledgray.gif	\Images\	image (device=not switchable, like a fridge)
DJ_Plugwise_ledblue.gif	\Images\	image (usage total)
DJ_Plugwise_Readme.pdf		This file

Release Notes

CURRENT version: 0.10 - Dec-31 2010

- ◆ Complete re-write of the code, moving from >350 lines of code to <100 lines.
With the full re-write there's no external DLL's required
- ◆ Created PDF documentation instead of old readme.txt

version: 0.8 - Aug-30 2009

- ◆ 2010 Dec-06 - changed setdevicestring adding 'TRUE' to update the last-change-date
- ◆ 2010 Dec-30 - if module is not reachable it will show warning sign
- ◆ 2009 Aug-30 - CLEAN UP CODE
- ◆ 2009 Aug-30 - Fixed bug where device-value was set to length of HTML string causing HS to trigger events based on device-values.

version: 0.7 - 2009

- ◆ Changes (unknown) plus
- ◆ Added code that sets the deviceSTATUS (2=on, 3=off) based on the PW status

version: 0.6 - Jan-02 2009

- ◆ Fixed problem with logging (EnableLogging=0 will NOT produce any logging)
- ◆ Added option to auto update a 'Current total' device. Add to DJ_Plugwise.ini under VDEVSettings:
- ◆ PwDeviceTotalCode=Q98 (where Q98 is the device that will contain the current kWh total)

version: 0.5 - Dec-07 2008

- ◆ Added logging parameter in .ini file (0=off, 1=on, 2=DETAILED!)
IMPORTANT: add Enablelogging=0 to the [VDevSettings] section of the .ini file
File Changes:
- ◆ MyRSS_DJ_xx.vb is now called "DJ_Plugwise_xx.vb"
- ◆ rss_DJ_xx.xml is now called "DJ_Plugwise_RSS.xml"
- ◆ Jon00RSS.ini is now called "DJ_Plugwise.ini"
- ◆ Replaced old GetDevice with new "GetDeviceEx" command
Fixed problem with wrong image path

version: 0.4 - Mar-08 2009

- ◆ Changed logging. If DBwrite is OFF the script will ALWAYS write a HS log entry. If the script doesn't write into the DB *and* it doesn't show anything was *does* it do?
- ◆ Fixed some bugs

version: 0.3 - Jan-12 2009

- ◆ Moved parameters to top of script
- ◆ Changed Lay-out

version: 0.2 - Jan-07 2009

- ◆ Now using Homeseer Parameter functions so I can completely "parameterize" the script
- ◆ Fixed some bugs

version: 0.1 - Jan-05 2009

- ◆ First release of the code that writes data into a database, directly from Homeseer, using parameters.

Fresh install

(see next chapter for upgrades)

1. Copy files to the locations listed in the "FILES" overview above
2. Check if you can use your browser to access the RSS file in the Plugwise directory. Browse to http://<IP_address Plugwise webserver>:<port>/DJ Plugwise RSS xx.xml
3. Create 2 new device types in Homeseer
 - a. Go to Homeseer web interface, "Setup", "Device-Types"
 - b. In the "Device Type" list box select "(New Device Type)"
 - c. Create 2 new device-types: "Plugwise" and "Plugwise NoSwitch"

Device Type	Device Type
Plugwise	Plugwise NoSwitch
<input type="checkbox"/> Thermostat Device	<input type="checkbox"/> Thermostat Device
<input type="checkbox"/> Status Only	<input checked="" type="checkbox"/> Status Only
<input type="checkbox"/> Supports Status Requests	<input type="checkbox"/> Supports Status Requests
<input type="checkbox"/> Uses Compose Protocol	<input type="checkbox"/> Uses Compose Protocol
<input type="checkbox"/> Uses SmartLinc Protocol	<input type="checkbox"/> Uses SmartLinc Protocol
<input type="checkbox"/> Uses Standard Dimming	<input type="checkbox"/> Uses Standard Dimming
<input type="checkbox"/> Uses Preset-Dim Dimming	<input type="checkbox"/> Uses Preset-Dim Dimming
<input type="checkbox"/> Uses Leviton Extended Data Dimming	<input type="checkbox"/> Uses Leviton Extended Data Dimming
<input type="checkbox"/> Uses Other Type of Direct Dimming	<input type="checkbox"/> Uses Other Type of Direct Dimming

4. Create devices in Homeseer for each Plugwise module
 - a. Go to Homeseer web interface, "Status" and click "Add Device"
 - b. Enter Device name, select Device-Type "Plugwise" or "Plugwise NoSwitch" (if the device cannot be switched)
 - c. House-code: an UNUSED House-code that you want to use for Plugwise devices ("Q" in the example below)
 - d. Device-code: the device-codes should match the Plugwise ID's
To see the Plugwise Device ID's open a web-browser and browse to **Error! Hyperlink reference not valid.**

You will see the Description. Below that the first number is the PW device ID. Example:

TV equipment

16, C:6, S:on, T:84.9, X:False, O:True, O:

WasherDryer

6, C:0, S:on, T:551.9, X:True, O:True, O:

<number>=PW device ID, C=current usage, S=status, T=total, X=switchable?, O=online?

5. Modify the DJ_Plugwise_xx.vb file in the Homeseer scripts directory:

```
pwHC = "Q"  
pwDCtotal = "Q98"  
strRSS_1url = "http://10.1.1.1"  
strRSS_2path = "/DJ_Plugwise_RSS_03.xml"  
strRSS_3port = "8080"
```

If you don't want a 'Total' device, please change "Q98" to "".

Fresh Install - continued

6. Create an event in HS that runs DJ_Plugwise_xx.vb

Cannot retrigger for: **30 seconds**

Just in case, to prevent the script from running to often

Recurring: **10 minutes**

You can modify this value according to your needs

Parameter: **"1"**

After testing the script, set this parameter to **"0"**!

This parameter is for debugging and testing purposes

NOTE: "Main" in the run script settings below is case-sensitive!

Name	Trigger	Action
Your changes are not saved until you click "Update"		
Action List		
		Run script: DJ_Plugwise_10.vb("Main","0")

Existing script: DJ_Plugwise_10.vb

Existing or new script name:

Optional parameters (function,param)
ie: ("main","lights")

OR Script Statement:
ie: &hs.speak "hello"

Wait for script to finish:

Only allow one instance to run:

7. (optional) For the Current Total Usage device:

In Homeseer add a device (type 'Plugwise') for the total kWh usage, Example: Q98

Configuration Options Additional Information

Device Name: Current Total

Select Room: 1-Meterkast

Select Type: Plugwise

Device Type: Plugwise

Lettercode/Unitcode: q 98

Save Delete Cancel

NOTE: don't forget to set the Total-device parameter in the script: `pwDCtotal = "Q98"`

Switching Plugwise modules

1. Copy DJ_SwitchPlugwise_xx.vb to \Homeseer 2\scripts\
 - a. Device Status Change: "Changed to OFF"

The screenshot shows the configuration window for a 'Device Status Change' trigger. It includes sections for 'Select Trigger' (Current Trigger Type: Device Status Change), 'Select Days' (all days checked), 'Apply Conditions' (unchecked), and 'Edit Device Status Change Trigger' (Device: 1-Livingroom Plugwise Lamp-1, Status: Changed to Off).

Run script: DJ_SwitchPlugwise_xx.vb("Main","Q5;Off")

The screenshot shows the 'Action List' section of the configuration window. It contains a single action: 'Run script: DJ_SwitchPlugwise_07.vb("Main","Q5;Off")'. There are 'Delete' and 'Edit' buttons for this action.

- b. Device Status Change: "Changed to OFF"
Same as above, except that you use the following parameters: ("Main","Q5;Off")

With these 2 scripts in place you can use the ON/OFF controls in your Homeseer web interface or Homeseer Touch application.

NOTE: When you use this script to switch on/off a Plugwise device the status in HS is updated immediately.

Upgrade

(see previous chapter for fresh installs)

UPGRADE from previous version? Because the code has changed 100% follow these instructions.

1. Follow the 'fresh install' instructions.
Plugwise devices are probably already created in Homeseer, you don't have to modify anything there.
You also might have the Plugwise Switching scripts in place so don't worry about that
(you might however want to replace the DJ_SwitchPlugwise_xx.vb with the latest version
in both the \scripts\ folder and the Homeseer event settings)

When everything is working fine:

2. Remove the DJ_Plugwise.ini from the \Config\ folder
3. Remove:
 - from ..\Homeseer 2\images\ remove led-gray.gif
 - from ..\Homeseer 2\images\ remove led-green.gif
 - from ..\Homeseer 2\images\ remove DJ_Plugwise_ledgreen.gif
 - from ..\Plugwise Source\www remove DJ_Plugwise_RSS_02.xml
4. Modify the recurring script that runs DJ_Plugwise_xx.vb so you are using the latest version instead of the old script

TIP: Use Notepad++ to modify ASP/VB files. This will make your life a LOT easier!

<http://notepad-plus.sourceforge.net/>