

# Homeseer

## Plugwise integration



### Version 0.10

March 2<sup>nd</sup>, 2011

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

Purpose	Homeseer script for Database Integration
Author	DJF3 ( <a href="mailto:info@domoticaworld.com">info@domoticaworld.com</a> )
Website	<a href="http://www.domoticaworld.com">http://www.domoticaworld.com</a>

Visit the website for feedback, support and more information.

# Index

Features & Screenshots	3
Requirements	3
Files	3
Release Notes	4
Fresh install	5
Fresh Install - continued	6
Switching Plugwise modules	7
Upgrade	8

## 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	<a href="#">Meterkast</a>	Q13
■ 0 W (885 kWh)	1-Kitchen	Plugwise	<a href="#">Boiler</a>	Q14
■ 0 W (101 kWh)	2-Bedroom	Plugwise	<a href="#">TV Bedroom</a>	Q15
■ 0 W (84 kWh)	1-Livingroom	Plugwise	<a href="#">TV power-off</a>	Q16
■ 0 W (191 kWh)	2-Office	Plugwise	<a href="#">Office power-off</a>	Q17
■ 0 W (10 kWh)	2-Office	Plugwise	<a href="#">Transit Module</a>	Q20
■ 531 W	1-Meterkast	Plugwise	<a href="#">Current Total</a>	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 webserver 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](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"

The image shows two side-by-side screenshots of the Homeseer web interface's 'Device Type' configuration page. Both screenshots show a dropdown menu at the top with the selected device type. Below the dropdown is a list of features with checkboxes.

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

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**

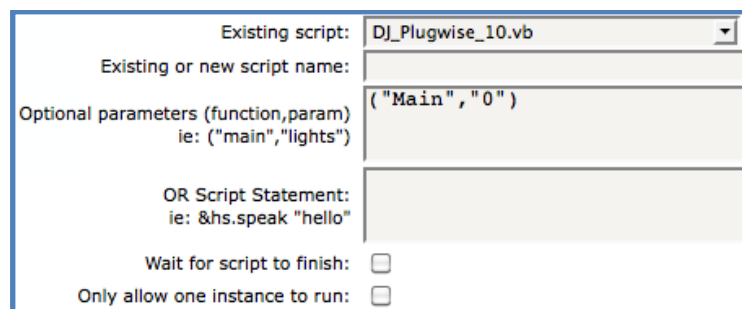

You can modify this value according to your needs

Parameter: **"1"**

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

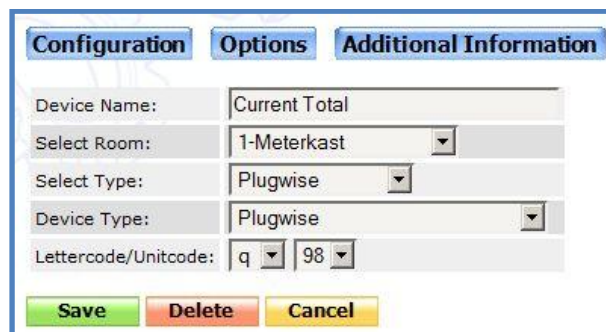
This parameter is for debugging and testing purposes

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



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

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



**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\  
2. Create 2 events that trigger based on the Plugwise module **status changes**.

- a. Device Status Change: "Changed to OFF"

The screenshot shows the 'Trigger' tab of a configuration window. Under 'Select Trigger', 'Current Trigger Type' is set to 'Device Status Change'. Under 'Select Days', all days (ma, di, wo, do, vr, za, zo) are selected. The 'Apply Conditions' checkbox is unchecked. The 'Edit Device Status Change Trigger' section shows 'Device' as '1-Livingroom Plugwise Lamp-1' and 'Status' as 'Changed to Off'.

Run script: DJ\_SwitchPlugwise\_xx.vb("Main","Q5;Off")

The screenshot shows the 'Action List' tab 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/>