

Installation Instructions for Device Handlers and Smart Applications into SmartThings

These instructions are for the installation of the TP-Link Device Handler and SmartApp files into the SmartThings Environment. The instructions are based largely on graphics. GitHub location of the files is: <https://github.com/DaveGut/TP-Link-SmartThings>. There are three relevant directories that are of interest:

Documentation - Contains instructions as well as installation descriptions. This file resides in Documentation.

Service Manager - Contains the file: "TP-Link SmartThings Manager.groovy". This is the SmartThings SmartApp.

Device Handlers - The device-dependent Device Handler files. You must install the device handler defined for your device. The table below lists TP-Link devices, device types, and the Groovy file name for the Device Handler.

Device, Device Type, Groovy Files		
Model	Device Type	Groovy File
HS100	TP-Link Smart Plug	TP-Link Plug.groovy
KP100		
HS103		
HS105		
HS200	TP-Link Smart Switch	TP-Link Switch.groovy
HS210		
RE270	TP-Link Smart RE Plug	TP-Link RE Plug.groovy
RE370		
HS107	TP-Link Smart Multi-Plug	TP-Link Multi-Plug.groovy
HS300		
KP200		
KP400		
HS220	TP-Link Smart Dimming Switch	TP-Link Dimming Switch.groovy
HS110	TP-Link Smart Energy Monitor Plug	TP-Link EnergyMonitor Plug.groovy
KB100	TP-Link Smart Soft White Bulb	TP-Link SoftWhite Bulb.groovy
LB100		
LB110		
KL110		
LB200		
LB120	TP-Link Smart Tunable White Bulb	TP-Link TunableWhite Bulb.groovy
KL120		
KB130	TP-Link Smart Color Bulb	TP-Link Color Bulb.groovy
LB130		
KL130		
LB230		

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Special note on RE270/RE370. This set of Device Handlers does not fully support the RE270/RE370 Range Extender / Smart Plug. Plug on and off commands require IFTTT integration and the handler then updates the status using a local refresh command.

NodeJS Files. The files for the manual and Node Applet installation.

INSTALLATION

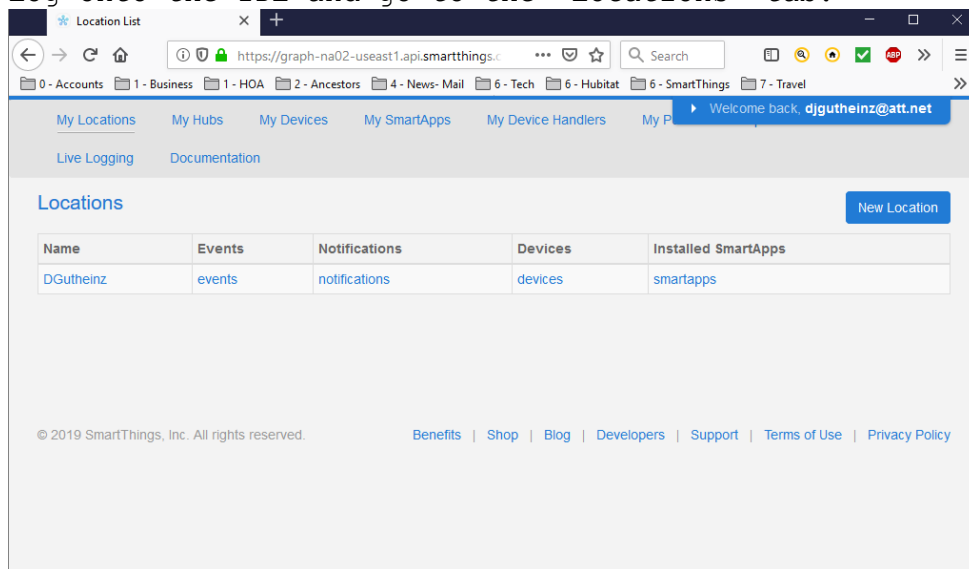
The installation process varies only slightly between a Kasa Account and Node Applet installation.

- Node Applet.** Installation requires the setup of a stand-alone pc or raspberry pi server running node.js and Nodejs installation files in located in the NodeJS Files directory. There are some instructions on setting Node.js up on a Windows PC or android device in the NodeJS Files directory.
- Kasa Account.** Installation requires a Kasa Account with the devices NOT in local control only mode.
- Manual Installation.** Installation requires the Node.JS applet as well as static IP addresses for all installed devices.

Installing files into SmartThings

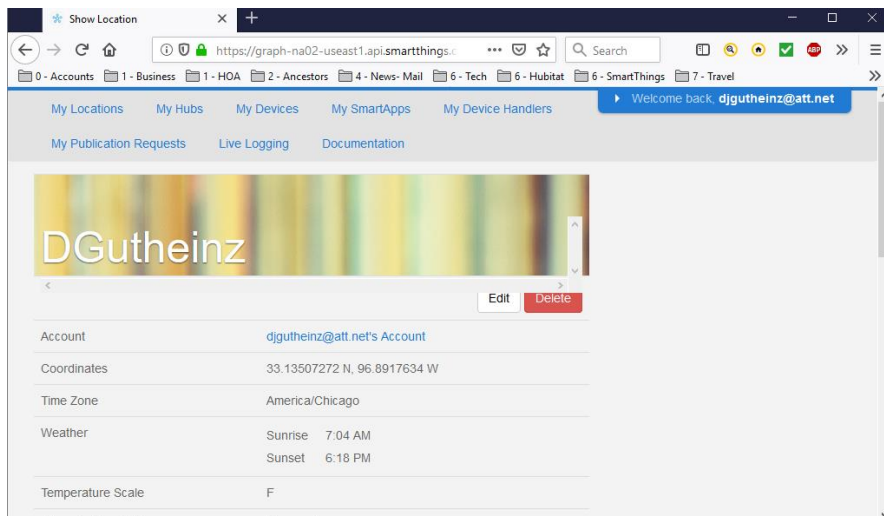
Regardless on the installation type, you will need to install the SmartApp and Device Handlers into SmartThings. The below step-by-step should provide some guidance.

- Log onto the IDE and go to the "Locations" tab.

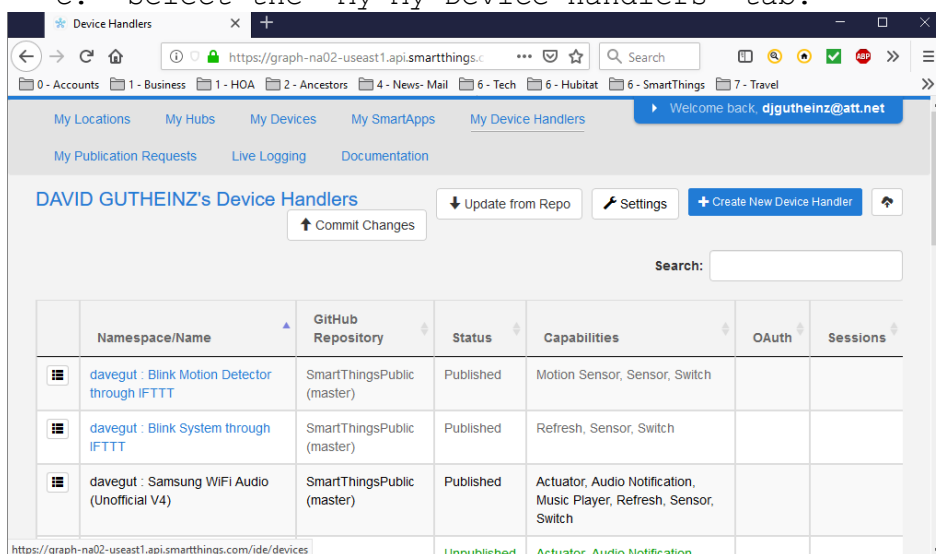


- Select your Hub. A new page will appear with details.

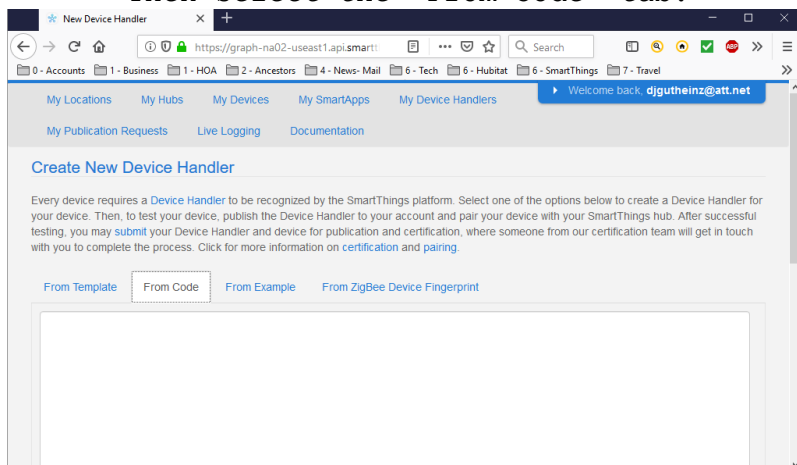
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c. Select the "My My Device Handlers" tab.

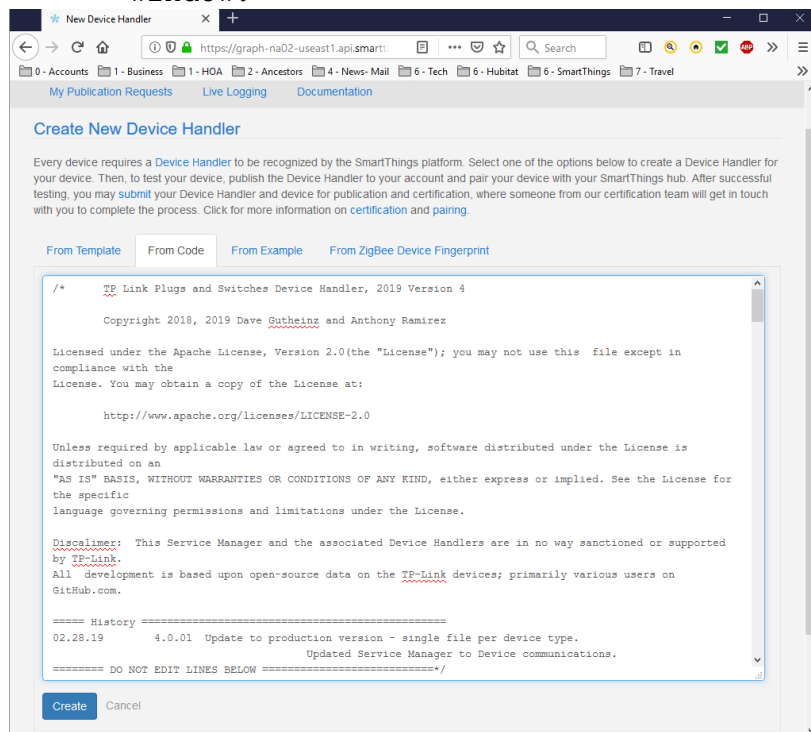


d. Select "+Create New Device Handler" from upper right of window. Then select the "From Code" tab.

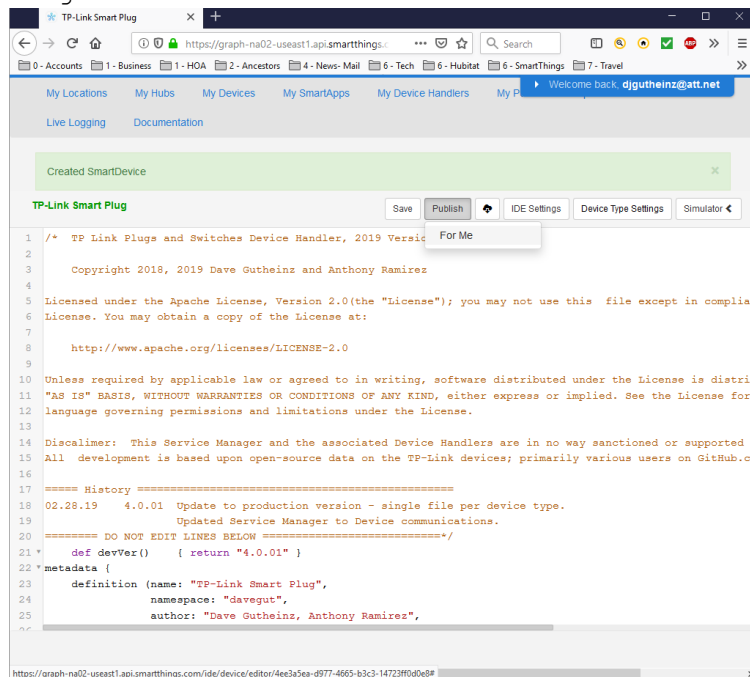


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- e. In a separate window, go to the GitHub site "Device Handlers" folder and open the appropriate service manager. Copy the contents of this file. Assure you copy ALL of the contents.
- f. Returning to the IDE window, paste the code you copied into the window.

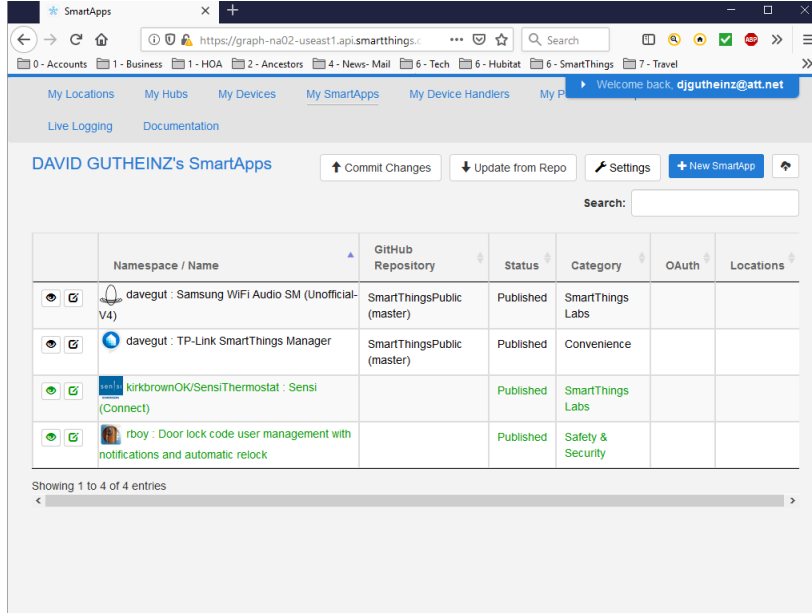


- g. Select "Publish" then "For Me".



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- h. Repeat this process for each device handler.
- i. Select the MySmartApps tab. Then select New SmartApp.



- j. Select the "From Code" tab.
- k. In a separate window, go to the GitHub site "Service Manager" folder and open the appropriate service manager.
- l. Copy the contents of this file. Assure you copy ALL of the contents.
- m. Returning to the IDE window, paste the code you copied.
- n. Select Create.
- o. Select "Publish" then "For Me".

Common Errors

There are several common errors in setting up the devices.

- a. Failure to select your location in the Location Tab (steps a and b). This will cause the device handler and SmartApp to be installed against a non-existent device and the installation **will not work**. **Correction:** Start over.
- b. Failure to copy the entire content of the file. This will cause errors when you try to save and publish the file. **Correction:** Re-install the file.
- c. Copying in non-compatible format. Sometimes, the copy process from your window into GitHub grabs non-compatible text format. **Correction:** Re-install the file.