

Quickstart Guide

for

SmartThings® direct-connected device application support on Raspberry Pi

Pre-requisites

- Raspberry Pi model 3 or 4 with up-to-date Raspbian OS (Ver 8 Jessie or later; Ver 10 Buster is ideal)
- Python Version 3.5 or later
- Github account that has been configured on your Pi:

```
git config --global user.name "John Doe"
git config --global user.email johndoe@example.com
```
- Samsung SmartThings [Developer WorkSpace](#) account

Suggested pre-reading:

SmartThings Developer documentation for [“Direct-connected devices”](#)

SmartThings [API Reference](#) for direct-connected devices

SmartThings Community Topic – [“How to Build Direct Connected Devices”](#) << read only, don't follow this now

To Get Started

All you need to get started is a **masterssetup** bash script downloaded to your Pi's home directory:

```
cd ~
wget http://toddaustin07.github.io/masterssetup
```

And change the permissions to make it executable:

```
chmod +x masterssetup
```

Before launching it, read on for what to expect...

What You Need to Know

- Required software will be loaded on to your Raspberry Pi, including RPI enabling package, SmartThings Core SDK, and required software libraries.
- The SmartThings Core SDK and example device applications will be built.
- You will use the Samsung SmartThings **Developer Workspace** to define your test device.
- Your Raspberry Pi will be configured to support onboarding and running direct-connected device applications.
 - *Your Pi will become a temporary wireless access point during initial device onboarding. You will need to provide a static IP address and a dhcp IP range to use during this mode; choose addresses that won't conflict with existing dhcp servers on your network*
- The example device application will be launched to demonstrate everything is working

The **masterssetup** script is menu-driven to automate most of the steps to get you up and running. If no unforeseen issues come up, the total process should take about 10 minutes, not including the Developer Workspace tasks. Each step along the way will be under your control. If problems occur you can go back and re-run previous steps. You can quit the script and come back later to pick up where you left off, however once you complete Step 1 in the menu, run the script from the new **~/rpi-st-device** directory from then on.

*Note for do-it-yourselfers: you can forgo the masterssetup automation script and follow the **detailed step-by-step** manual instructions in the [Configuration Guide](#).*

When you are ready:

```
cd ~
./masterssetup
```