

Samsung TV Remote (model years 2016 and later)

Objective of driver: Provide a framework for Dashboard and Rule Machine control of the Samsung TV.

Hubitat capabilities:

- a. SamsungTV
- b. Switch
- c. Speech Synthesis
- d. Notification
- e. Buttons

Major functions:

- a. On/Off, on using Wake On Lan
- b. Standard Remote Control Keys
 - 1. Set keys in program
 - 2. Use Send Key to send any key not covered elsewhere.
- c. Additional functions
 - 1. Art Mode (Frame TV's)
 - 2. Set Input Source (digitalTv, HDMIIn)
 - 3. Set TV Channel
 - 4. Quick Polling (down to 5 seconds, currently switch (power) status only)
- d. Applications
 - 1. Some apps are pre-coded for single-button call up. However, the app identifications change from year-to-year and these may not work on your TV.
 - 2. You can still get to any available app using the navigation keys of Hubitat.

GitHub Location:

<https://github.com/DaveGut/HubitatActive/tree/master/SamsungTvRemote>

TV Preparation. To use this driver, the TV requires some special settings:

- Settings > General > Network > Expert Settings
- Power On with Mobile: selected (blue)
- IP Remote: Enable

Basic Installation. Basic installation is the same as any driver. This procedure will take you through an operating system without SmartThings or Speech Synthesis functions.

- a. Turn on your TV Set. This is required to get important data.
- b. Install driver, one of two methods:
 - 1. Hubitat Package Manager
 - a) Tags: Control, LAN, Utility
 - b) name: Samsung TV Remote
 - 2. Manual using Import Feature

- a) Open new driver
- b) Select Import button and enter url below into window
- c) Import uri:
<https://raw.githubusercontent.com/DaveGut/HubitatActive/master/SamsungTVRemote/SamsungTVRemote.groovy>
- 3. Create the device
- 4. Open the Device's edit page and enter the device IP into "Samsung TV Ip"
- 5. Save Preferences. (TV Must Be ON or this function will not work properly.)
- c. Activate Hubitat – TV Link
 - 1. Assure your TV is on, you are in front of your TV, and you have the Samsung TV Remote. (This is a one time process to bind Hubitat to the TV.)
 - 2. On the Hubitat Device's edit page, press the Guide Key.
 - 3. On the TV display you will see an Allow, Deny pop-up in the upper left corner. Using your TV Remote, select "ALLOW".
 - 4. Wait 15 seconds then press any other key on the edit page.

SmartThing Integration: The functions **setInputSource** and **setTvChannel** utilize a link to SmartThings. A prerequisite is a SmartThings Account and your TV installed into that device.

- a. Open the device's edit page and switch "Connect to SmartThings for added functions) to right (blue)
- b. Save Preferences
- c. Obtain an API key from <https://account.smartthings.com/tokens>
- d. Enter the Key in the preference "SmartThings API Key"
- e. Save Preferences
- f. Open a logging page
- g. On the Device's page, select the function "List St Devices"
- h. From the log page, copy the DeviceId for your TV.
- i. Paste the above value into Preference "SmartThings TV Device ID"
- j. Save Preferences.

Currently unavailable. Speech Synthesis and Audio Notification. The Hubitat textToSpeech engine output is not compatible with the Samsung TV (nor soundbars). For this function to work, you must use an external and FREE service.

- a. Go to <http://www.voicerss.org/registration.aspx>,
 - 1. Create a free account
 - 2. Obtain and copy a TTS Key
- b. Enter the key in Preference "TTS Site Key"
- c. Select your TTS language from the dropdown.
- d. Save Preferences

Button Interface: A button interface has been created within the driver.

- a. Goal: Provide a method to call up TV device functions into Hubitat Dashboard and Rule Machine w/o creating a lot of pseudo devices.
- b. Documentation: Internal to the driver near the bottom of the driver code in method "**push**".

Acknowledgement: This development has been a team effort from various users:

- a. Many GitHub users for the decoding of the Web Socket API
- b. SmartThings for their good API document
- c. Users in this thread, especially:
 - 1. Cal: Initial light the fire support as well as Frame TV functions.
 - 2. Lewis.keidrick: Testing support, offer of other support, and the idea of enhancing the integration with SmartThings.
 - 3. Others I probably forgot because I am old.