

## Instructions

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- a. Remove current instance for HubiThings Replica
  - b. Turn your TV ON and make sure you are in digital tv Mode (i.e., not on an HDMI channel).
  - c. Install the new driver code.
  - d. Reinstall the TV through HubiThings Replica
  - e. Open the device's edit page.
  - f. Enter your TV's IP Address and SAVE PREFERENCES.
  - g. Wait 10 or so seconds.
  - i. Connect to the TV for local functions
    1. Press Menu
    2. On the TV Screen, respond to the pop-up with "allow:"
    3. wait 30 secs then press Home - note home display on set.
- You should now be set for local control.

## Testing Local functions.

1. Turn the TV OFF. And wait 2 minutes  
(The TV STATUS reporting can get confused (even for SmartThings) with quick power-off / power on cycles. TV still works - just power state is incorrect.)
  - a. attribute Switch becomes "off" very quickly.
  - b. About 30 seconds later, wsStatus is "closed-failure"
2. Turn the TV On
  - a. TV Turns on and switch becomes "on"
3. Press HOME
  - a. wsStatus "open"
  - b. Home screen displays.
  - c. Press home again to eliminate home screen.

## Verifying SmartThings Status interface.

1. Open Samsung TV Plus to any channel  
(HOME key then arrow keys for navigation. ENTER when at the TV Plus icon.)
  - a. Note attributes tvChannel and tvChannelName are populated. This takes 5 seconds to populate due to timing issues.
2. Press channelUp and not changes in tvChannel data.
3. Go to key Set Tv Channel and enter a valid channel number. Same result in TV Data

The interfaces are now verified as working. Known issues:

- a. Turn off then on again can cause the physical TV set to report incorrect switch status.
- b. play, pause, stop, fast forward, and rewind do not regularly report an attribute since the apps and HDMI interfaces do not provide this data to the TV.

Design notes:

1. Where possible, the device uses the local websocket interface. This allows "remote control" type ops even if SmartThings is down.
2. The commands that begin with SET (except Set Variable) are all SmartThings commands. Toggle Picture and Sound Mode command also use the SmartThings interface.
3. All attributes come from SmartThings except current app and wsStatus. If you have issues, press the "REFRESH" button and alsoRefresh the browser's page. Then test the Set Volume command (which uses smartThings) viewing the volume on the TV as this occurs.
4. Application Function. Before the Application Functions will work properly, select the PREFERENCE "Scans for App Codes" and do Save Preferences. This will then allow calling up an app by name using the Hubitat Interface. The data collection is done in the background and takes about 10 seconds.