androidty Documentation

Release 0.0.28

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ONE

ADB SETUP

This package works by sending ADB commands to your Android TV / Fire TV device. There are two ways to accomplish this.

1.1 1. ADB Server

androidty can use a running ADB server to send ADB commands (credit: pure-python-adb). More info about ADB can be found here: Android Debug Bridge (adb). There are 3 main ways to setup an ADB server.

Note: The ADB server must be connected to your device(s) before starting Home Assistant. Otherwise, the components will not be setup.

1.1.1 1a) Hass.io ADB Addon

For Hass.io users, this is the easiest option. Information about the addon can be found here: Community Hass.io Add-ons: Android Debug Bridge. The configuration for the addon will look like:

```
{
  "log_level": "info",
  "devices": [
     "192.168.0.111",
     "192.168.0.222"
  ],
  "reconnect_timeout": 90,
  "keys_path": "/config/.android"
}
```

Your Home Assistant configuration will look like:

```
media_player:
    platform: androidtv
    name: Android TV 1
    host: 192.168.0.111
    adb_server_ip: 127.0.0.1

media_player:
    platform: androidtv
    name: Android TV 2
    host: 192.168.0.222
    adb_server_ip: 127.0.0.1
```

1.1.2 1b) Docker Container

Since Home Assistant isn't able to start the connection with the Android device directly, the ADB Server must do it instead. The ADB Server must already be connected to the Android device when Home Assistant attempts to access the ADB Server, or else Home Assistant will be unable to set up the Android device.

A modified script provided on the Home Assistant forums (source) demonstrates an example startup script for a Docker container that will automatically attempt, and continue to connect to a device when run:

Listing 1: startup.sh

```
#!/bin/sh
# for a single device, use: DEVICES=("192.168.0.111")
DEVICES=("192.168.0.111" "192.168.0.222")
echo "Starting up ADB..."
while true; do
 adb -a server nodaemon > /dev/null 2>&1
 sleep 10
done &
echo "Server started. Waiting for 30 seconds..."
sleep 30
echo "Connecting to devices."
for device in ${DEVICES[@]}; do
  adb connect $device
echo "Done."
while true; do
  for device in ${DEVICES[@]}; do
   adb connect $device > /dev/null 2>&1
  done
 sleep 60
done
```

Assuming the address of the ADB server is 192.168.0.101, your Home Assistant configuration will look like:

```
media_player:
    platform: androidtv
    name: Android TV 1
    host: 192.168.0.111
    adb_server_ip: 192.168.0.101

media_player:
    platform: androidtv
    name: Android TV 2
    host: 192.168.0.222
    adb_server_ip: 192.168.0.101
```

1.1.3 1c) Linux Service

TODO

Your Home Assistant configuration will look like:

```
media_player:
    platform: androidtv
    name: Android TV 1
    host: 192.168.0.111
    adb_server_ip: 127.0.0.1

media_player:
    platform: androidtv
    name: Android TV 2
    host: 192.168.0.222
    adb_server_ip: 127.0.0.1
```

1.2 2. Python ADB Implementation

The second way that androidty can communicate with devices is using the Python ADB implementation (credit: python-adb).

If your device requires ADB authentication, you will need to follow the instructions in the "ADB Authentication" section below. Once you have an authenticated key, this approach does not require any additional setup or addons. However, users with newer devices may find that the ADB connection is unstable. For a Fire TV device, you can try setting the <code>get_sources</code> configuration option to <code>false</code>. If the problem cannot be resolved, you should use the ADB server option.

Assuming you have 2 devices that require authentication, your configuration will look like this (update the adbkey path accordingly):

```
media_player:
    platform: androidtv
    name: Android TV 1
    host: 192.168.0.111
    adbkey: "/config/.android/adbkey"

media_player:
    platform: androidtv
    name: Android TV 2
    host: 192.168.0.222
    adbkey: "/config/.android/adbkey"
```

1.2.1 ADB Authentication

If you get a "Device authentication required, no keys available" error when trying to set up your Android TV or Fire TV, then you'll need to create an adbkey and add its path to your configuration. Follow the instructions on this page to connect to your device from your computer: Connecting to Fire TV Through adb.

Note: In the dialog appearing on your Android TV / Fire TV, you must check the box that says "always allow connections from this device." ADB authentication in Home Assistant will only work using a trusted key.

Once you've successfully connected to your Android TV / Fire TV via the command adb connect <ipaddress>, the file adbkey will be created on your computer. The default location for this file is (from https://developer.android.com/studio/command-line/adb):

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• Linux and Mac: \$HOME/.android

• Windows: %userprofile%\.android

Copy the adbkey file to your Home Assistant folder and add the path to your configuration.

TWO

ANDROIDTV

2.1 androidtv package

2.1.1 Submodules

androidtv.adb_manager module

androidty.androidty module

androidtv.basetv module

androidtv.constants module

androidtv.firetv module

2.1.2 Module contents

androidtv is a Python 3 package that provides state information and control of Android TV and Fire TV devices via ADB. This package is used by the Android TV integration in Home Assistant.

THREE

INSTALLATION

Be sure you install into a Python 3.x environment.

pip install androidtv

CHAPTER	
FOUR	

ADB INTENTS AND COMMANDS

A collection of useful intents and commands can be found here (credit: mcfrojd).

FIVE

ACKNOWLEDGMENTS

This is based on python-firetv by happyleavesaoc and the androidtv component for Home Assistant by a1ex4, and it depends on python-adb and pure-python-adb.

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INDICES AND TABLES

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- modindex
- search