
androidtv Documentation

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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

`androidtv` 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
done
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 `androidtv` can communicate with devices is using the Python ADB implementation (credit: `adb-shell`).

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 `get_sources` configuration option to `false`. 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>):

- Linux and Mac: `$HOME/.android`
- Windows: `%userprofile%\.android`

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

2.1 androidtv package

2.1.1 Subpackages

androidtv.adb_manager package

Submodules

androidtv.adb_manager.adb_manager_async module

Classes to manage ADB connections.

- *ADBPYthonAsync* utilizes a Python implementation of the ADB protocol.
- *ADBServerAsync* utilizes an ADB server to communicate with the device.

```
class androidtv.adb_manager.adb_manager_async.ADBPYthonAsync (host, port,  
                                                             adbkey=",  
                                                             signer=None)
```

Bases: object

A manager for ADB connections that uses a Python implementation of the ADB protocol.

Parameters

- **host** (*str*) – The address of the device; may be an IP address or a host name
- **port** (*int*) – The device port to which we are connecting (default is 5555)
- **adbkey** (*str*) – The path to the adbkey file for ADB authentication
- **signer** (*PythonRSASigner*, *None*) – The signer for the ADB keys, as loaded by *ADBPYthonAsync.load_adbkey()*

property available

Check whether the ADB connection is intact.

Returns Whether or not the ADB connection is intact

Return type bool

async close()

Close the ADB socket connection.

async connect (*always_log_errors=True*, *auth_timeout_s=10.0*)

Connect to an Android TV / Fire TV device.

Parameters

- **always_log_errors** (*bool*) – If True, errors will always be logged; otherwise, errors will only be logged on the first failed reconnect attempt
- **auth_timeout_s** (*float*) – Authentication timeout (in seconds)

Returns Whether or not the connection was successfully established and the device is available

Return type bool

static load_adbkey (*adbkey*)

Load the ADB keys.

Parameters **adbkey** (*str*) – The path to the `adbkey` file for ADB authentication

Returns The `PythonRSASigner` with the key files loaded

Return type `PythonRSASigner`

async pull (*local_path*, *device_path*)

Pull a file from the device using the Python ADB implementation.

Parameters

- **local_path** (*str*) – The path where the file will be saved
- **device_path** (*str*) – The file on the device that will be pulled

async push (*local_path*, *device_path*)

Push a file to the device using the Python ADB implementation.

Parameters

- **local_path** (*str*) – The file that will be pushed to the device
- **device_path** (*str*) – The path where the file will be saved on the device

async screenshot ()

Take a screenshot using the Python ADB implementation.

Returns The screenshot as a binary .png image

Return type bytes

async shell (*cmd*)

Send an ADB command using the Python ADB implementation.

Parameters **cmd** (*str*) – The ADB command to be sent

Returns The response from the device, if there is a response

Return type str, None

class androidtv.adb_manager.adb_manager_async.**ADBServerAsync** (*host*, *port=5555*,
adb_server_ip="",
adb_server_port=5037)

Bases: object

A manager for ADB connections that uses an ADB server.

Parameters

- **host** (*str*) – The address of the device; may be an IP address or a host name
- **port** (*int*) – The device port to which we are connecting (default is 5555)
- **adb_server_ip** (*str*) – The IP address of the ADB server

- **adb_server_port** (*int*) – The port for the ADB server

property available

Check whether the ADB connection is intact.

Returns Whether or not the ADB connection is intact

Return type bool

async close ()

Close the ADB server socket connection.

Currently, this doesn't do anything except set `self._available = False`.

async connect (*always_log_errors=True*)

Connect to an Android TV / Fire TV device.

Parameters **always_log_errors** (*bool*) – If True, errors will always be logged; otherwise, errors will only be logged on the first failed reconnect attempt

Returns Whether or not the connection was successfully established and the device is available

Return type bool

async pull (*local_path, device_path*)

Pull a file from the device using an ADB server.

Parameters

- **local_path** (*str*) – The path where the file will be saved
- **device_path** (*str*) – The file on the device that will be pulled

async push (*local_path, device_path*)

Push a file to the device using an ADB server.

Parameters

- **local_path** (*str*) – The file that will be pushed to the device
- **device_path** (*str*) – The path where the file will be saved on the device

async screenshot ()

Take a screenshot using an ADB server.

Returns The screenshot as a binary .png image, or None if there was an `IndexError` exception

Return type bytes, None

async shell (*cmd*)

Send an ADB command using an ADB server.

Parameters **cmd** (*str*) – The ADB command to be sent

Returns The response from the device, if there is a response

Return type str, None

class androidtv.adb_manager.adb_manager_async.**ClientAsync** (*host, port*)

Bases: object

An async wrapper for the pure-python-adb `Client` class.

async device (*serial*)

Get a `DeviceAsync` instance.

class androidtv.adb_manager.adb_manager_async.**DeviceAsync** (*device*)

Bases: object

An async wrapper for the pure-python-adb Device class.

async pull (*device_path*, *local_path*)

Download a file.

async push (*local_path*, *device_path*)

Upload a file.

async screencap ()

Take a screencap.

async shell (*cmd*)

Send a shell command.

androidtv.adb_manager.adb_manager_async.**_acquire** (*lock*, *timeout=3.0*)

Handle acquisition and release of an `asyncio.Lock` object with a timeout.

Parameters

- **lock** (*asyncio.Lock*) – The lock that we will try to acquire
- **timeout** (*float*) – The timeout in seconds

Yields **acquired** (*bool*) – Whether or not the lock was acquired

Raises **LockNotAcquiredException** – Raised if the lock was not acquired

androidtv.adb_manager.adb_manager_sync module

Classes to manage ADB connections.

- **ADBPYthonSync** utilizes a Python implementation of the ADB protocol.
- **ADBServerSync** utilizes an ADB server to communicate with the device.

class androidtv.adb_manager.adb_manager_sync.**ADBPYthonSync** (*host*, *port*, *adbkey=""*,
signer=None)

Bases: object

A manager for ADB connections that uses a Python implementation of the ADB protocol.

Parameters

- **host** (*str*) – The address of the device; may be an IP address or a host name
- **port** (*int*) – The device port to which we are connecting (default is 5555)
- **adbkey** (*str*) – The path to the adbkey file for ADB authentication
- **signer** (*PythonRSASigner*, *None*) – The signer for the ADB keys, as loaded by `ADBPYthonSync.load_adbkey()`

property available

Check whether the ADB connection is intact.

Returns Whether or not the ADB connection is intact

Return type bool

close ()

Close the ADB socket connection.

connect (*always_log_errors=True, auth_timeout_s=10.0*)

Connect to an Android TV / Fire TV device.

Parameters

- **always_log_errors** (*bool*) – If True, errors will always be logged; otherwise, errors will only be logged on the first failed reconnect attempt
- **auth_timeout_s** (*float*) – Authentication timeout (in seconds)

Returns Whether or not the connection was successfully established and the device is available

Return type bool

static load_adbkey (*adbkey*)

Load the ADB keys.

Parameters **adbkey** (*str*) – The path to the adbkey file for ADB authentication

Returns The PythonRSASigner with the key files loaded

Return type PythonRSASigner

pull (*local_path, device_path*)

Pull a file from the device using the Python ADB implementation.

Parameters

- **local_path** (*str*) – The path where the file will be saved
- **device_path** (*str*) – The file on the device that will be pulled

push (*local_path, device_path*)

Push a file to the device using the Python ADB implementation.

Parameters

- **local_path** (*str*) – The file that will be pushed to the device
- **device_path** (*str*) – The path where the file will be saved on the device

screencap ()

Take a screenshot using the Python ADB implementation.

Returns The screencap as a binary .png image

Return type bytes

shell (*cmd*)

Send an ADB command using the Python ADB implementation.

Parameters **cmd** (*str*) – The ADB command to be sent

Returns The response from the device, if there is a response

Return type str, None

```
class androidtv.adb_manager.adb_manager_sync.ADBServerSync (host, port=5555,  
                                                         adb_server_ip=  
                                                         adb_server_port=5037)
```

Bases: object

A manager for ADB connections that uses an ADB server.

Parameters

- **host** (*str*) – The address of the device; may be an IP address or a host name
- **port** (*int*) – The device port to which we are connecting (default is 5555)

- **adb_server_ip** (*str*) – The IP address of the ADB server
- **adb_server_port** (*int*) – The port for the ADB server

property available

Check whether the ADB connection is intact.

Returns Whether or not the ADB connection is intact

Return type bool

close()

Close the ADB server socket connection.

Currently, this doesn't do anything except set `self._available = False`.

connect (*always_log_errors=True*)

Connect to an Android TV / Fire TV device.

Parameters **always_log_errors** (*bool*) – If True, errors will always be logged; otherwise, errors will only be logged on the first failed reconnect attempt

Returns Whether or not the connection was successfully established and the device is available

Return type bool

pull (*local_path, device_path*)

Pull a file from the device using an ADB server.

Parameters

- **local_path** (*str*) – The path where the file will be saved
- **device_path** (*str*) – The file on the device that will be pulled

push (*local_path, device_path*)

Push a file to the device using an ADB server.

Parameters

- **local_path** (*str*) – The file that will be pushed to the device
- **device_path** (*str*) – The path where the file will be saved on the device

screenshot()

Take a screenshot using an ADB server.

Returns The screenshot as a binary .png image, or None if there was an `IndexError` exception

Return type bytes, None

shell (*cmd*)

Send an ADB command using an ADB server.

Parameters **cmd** (*str*) – The ADB command to be sent

Returns The response from the device, if there is a response

Return type str, None

`androidtv.adb_manager.adb_manager_sync.LOCK_KWARGS = {'timeout': 3.0}`

Use a timeout for the ADB threading lock if it is supported

`androidtv.adb_manager.adb_manager_sync._acquire(lock)`

Handle acquisition and release of a `threading.Lock` object with `LOCK_KWARGS` keyword arguments.

Parameters **lock** (*threading.Lock*) – The lock that we will try to acquire

Yields `acquired` (*bool*) – Whether or not the lock was acquired

Raises `LockNotAcquiredException` – Raised if the lock was not acquired

Module contents

androidtv.androidtv package

Submodules

androidtv.androidtv.androidtv_async module

Communicate with an Android TV device via ADB over a network.

ADB Debugging must be enabled.

```
class androidtv.androidtv.androidtv_async.AndroidTVAsync (host, port=5555,
                                                         adbkey="",
                                                         adb_server_ip="",
                                                         adb_server_port=5037,
                                                         state_detection_rules=None,
                                                         signer=None)

Bases:      androidtv.basetv.basetv_async.BaseTVAsync,      androidtv.androidtv.
base_androidtv.BaseAndroidTV
```

Representation of an Android TV device.

Parameters

- **host** (*str*) – The address of the device; may be an IP address or a host name
- **port** (*int*) – The device port to which we are connecting (default is 5555)
- **adbkey** (*str*) – The path to the adbkey file for ADB authentication
- **adb_server_ip** (*str*) – The IP address of the ADB server
- **adb_server_port** (*int*) – The port for the ADB server
- **state_detection_rules** (*dict*, *None*) – A dictionary of rules for determining the state (see *BaseTV*)
- **signer** (*PythonRSASigner*, *None*) – The signer for the ADB keys, as loaded by `androidtv.adb_manager.adb_manager_async.ADBPythonAsync.load_adbkey()`

async get_properties (*get_running_apps=True*, *lazy=False*)

Get the properties needed for Home Assistant updates.

This will send one of the following ADB commands:

- `androidtv.constants.CMD_ANDROIDTV_PROPERTIES_LAZY_RUNNING_APPS`
- `androidtv.constants.CMD_ANDROIDTV_PROPERTIES_LAZY_NO_RUNNING_APPS`
- `androidtv.constants.CMD_ANDROIDTV_PROPERTIES_NOT_LAZY_RUNNING_APPS`
- `androidtv.constants.CMD_ANDROIDTV_PROPERTIES_NOT_LAZY_NO_RUNNING_APPS`

Parameters

- **get_running_apps** (*bool*) – Whether or not to get the `running_apps()` property

- **lazy** (*bool*) – Whether or not to continue retrieving properties if the device is off or the screensaver is running

Returns

- **screen_on** (*bool, None*) – Whether or not the device is on, or *None* if it was not determined
- **awake** (*bool, None*) – Whether or not the device is awake (screensaver is not running), or *None* if it was not determined
- **audio_state** (*str, None*) – The audio state, as determined from “dumpsys audio”, or *None* if it was not determined
- **wake_lock_size** (*int, None*) – The size of the current wake lock, or *None* if it was not determined
- **current_app** (*str, None*) – The current app property, or *None* if it was not determined
- **media_session_state** (*int, None*) – The state from the output of `dumpsys media_session`, or *None* if it was not determined
- **audio_output_device** (*str, None*) – The current audio playback device, or *None* if it was not determined
- **is_volume_muted** (*bool, None*) – Whether or not the volume is muted, or *None* if it was not determined
- **volume** (*int, None*) – The absolute volume level, or *None* if it was not determined
- **running_apps** (*list, None*) – A list of the running apps, or *None* if it was not determined

async get_properties_dict (*get_running_apps=True, lazy=True*)

Get the properties needed for Home Assistant updates and return them as a dictionary.

Parameters

- **get_running_apps** (*bool*) – Whether or not to get the `running_apps()` property
- **lazy** (*bool*) – Whether or not to continue retrieving properties if the device is off or the screensaver is running

Returns A dictionary with keys 'screen_on', 'awake', 'wake_lock_size', 'current_app', 'media_session_state', 'audio_state', 'audio_output_device', 'is_volume_muted', 'volume', and 'running_apps'

Return type dict

async running_apps ()

Return a list of running user applications.

Returns A list of the running apps

Return type list

async turn_off ()

Send `POWER` action if the device is not off.

async turn_on ()

Send `POWER` action if the device is off.

async update (*get_running_apps=True, lazy=True*)

Get the info needed for a Home Assistant update.

Parameters

- **get_running_apps** (*bool*) – Whether or not to get the `running_apps()` property
- **lazy** (*bool*) – Whether or not to continue retrieving properties if the device is off or the screensaver is running

Returns

- **state** (*str*) – The state of the device
- **current_app** (*str*) – The current running app
- **running_apps** (*list*) – A list of the running apps if `get_running_apps` is `True`, otherwise the list `[current_app]`
- **audio_output_device** (*str*) – The current audio playback device
- **is_volume_muted** (*bool*) – Whether or not the volume is muted
- **volume_level** (*float*) – The volume level (between 0 and 1)

androidtv.androidtv.androidtv_sync module

Communicate with an Android TV device via ADB over a network.

ADB Debugging must be enabled.

```
class androidtv.androidtv.androidtv_sync.AndroidTVSync(host, port=5555, adbkey="", adb_server_ip="",
adb_server_port=5037, state_detection_rules=None, signer=None)
```

Bases: `androidtv.basetv.basetv_sync.BaseTVSync`, `androidtv.androidtv.base_androidtv.BaseAndroidTV`

Representation of an Android TV device.

Parameters

- **host** (*str*) – The address of the device; may be an IP address or a host name
- **port** (*int*) – The device port to which we are connecting (default is 5555)
- **adbkey** (*str*) – The path to the adbkey file for ADB authentication
- **adb_server_ip** (*str*) – The IP address of the ADB server
- **adb_server_port** (*int*) – The port for the ADB server
- **state_detection_rules** (*dict*, *None*) – A dictionary of rules for determining the state (see `BaseTV`)
- **signer** (*PythonRSASigner*, *None*) – The signer for the ADB keys, as loaded by `androidtv.adb_manager.adb_manager_sync.ADBPythonSync.load_adbkey()`

get_properties (*get_running_apps=True*, *lazy=False*)

Get the properties needed for Home Assistant updates.

This will send one of the following ADB commands:

- `androidtv.constants.CMD_ANDROIDTV_PROPERTIES_LAZY_RUNNING_APPS`
- `androidtv.constants.CMD_ANDROIDTV_PROPERTIES_LAZY_NO_RUNNING_APPS`
- `androidtv.constants.CMD_ANDROIDTV_PROPERTIES_NOT_LAZY_RUNNING_APPS`

- `androidtv.constants.CMD_ANDROIDTV_PROPERTIES_NOT_LAZY_NO_RUNNING_APPS``

Parameters

- **get_running_apps** (*bool*) – Whether or not to get the `running_apps()` property
- **lazy** (*bool*) – Whether or not to continue retrieving properties if the device is off or the screensaver is running

Returns

- **screen_on** (*bool, None*) – Whether or not the device is on, or `None` if it was not determined
- **awake** (*bool, None*) – Whether or not the device is awake (screensaver is not running), or `None` if it was not determined
- **audio_state** (*str, None*) – The audio state, as determined from “dumpsys audio”, or `None` if it was not determined
- **wake_lock_size** (*int, None*) – The size of the current wake lock, or `None` if it was not determined
- **current_app** (*str, None*) – The current app property, or `None` if it was not determined
- **media_session_state** (*int, None*) – The state from the output of `dumpsys media_session`, or `None` if it was not determined
- **audio_output_device** (*str, None*) – The current audio playback device, or `None` if it was not determined
- **is_volume_muted** (*bool, None*) – Whether or not the volume is muted, or `None` if it was not determined
- **volume** (*int, None*) – The absolute volume level, or `None` if it was not determined
- **running_apps** (*list, None*) – A list of the running apps, or `None` if it was not determined

get_properties_dict (*get_running_apps=True, lazy=True*)

Get the properties needed for Home Assistant updates and return them as a dictionary.

Parameters

- **get_running_apps** (*bool*) – Whether or not to get the `running_apps()` property
- **lazy** (*bool*) – Whether or not to continue retrieving properties if the device is off or the screensaver is running

Returns A dictionary with keys 'screen_on', 'awake', 'wake_lock_size', 'current_app', 'media_session_state', 'audio_state', 'audio_output_device', 'is_volume_muted', 'volume', and 'running_apps'

Return type dict

running_apps ()

Return a list of running user applications.

Returns A list of the running apps

Return type list

turn_off ()

Send `POWER` action if the device is not off.

turn_on()

Send POWER action if the device is off.

update (*get_running_apps=True, lazy=True*)

Get the info needed for a Home Assistant update.

Parameters

- **get_running_apps** (*bool*) – Whether or not to get the `running_apps()` property
- **lazy** (*bool*) – Whether or not to continue retrieving properties if the device is off or the screensaver is running

Returns

- **state** (*str*) – The state of the device
- **current_app** (*str*) – The current running app
- **running_apps** (*list*) – A list of the running apps if `get_running_apps` is True, otherwise the list [`current_app`]
- **audio_output_device** (*str*) – The current audio playback device
- **is_volume_muted** (*bool*) – Whether or not the volume is muted
- **volume_level** (*float*) – The volume level (between 0 and 1)

androidtv.androidtv.base_androidtv module

Communicate with an Android TV device via ADB over a network.

ADB Debugging must be enabled.

```
class androidtv.androidtv.base_androidtv.BaseAndroidTV(host, port=5555, adbkey=", adb_server_ip=", adb_server_port=5037, state_detection_rules=None)
```

Bases: `androidtv.basetv.basetv.BaseTV`

Representation of an Android TV device.

Parameters

- **host** (*str*) – The address of the device; may be an IP address or a host name
- **port** (*int*) – The device port to which we are connecting (default is 5555)
- **adbkey** (*str*) – The path to the adbkey file for ADB authentication
- **adb_server_ip** (*str*) – The IP address of the ADB server
- **adb_server_port** (*int*) – The port for the ADB server
- **state_detection_rules** (*dict, None*) – A dictionary of rules for determining the state (see `BaseTV`)

DEVICE_CLASS = 'androidtv'

_get_properties (*output, get_running_apps*)

Get the properties needed for Home Assistant updates.

Parameters

- **output** (*str, None*) – The output of the ADB command used to retrieve the properties

- **get_running_apps** (*bool*) – Whether or not to get the `running_apps` property

Returns

- **screen_on** (*bool, None*) – Whether or not the device is on, or `None` if it was not determined
- **awake** (*bool, None*) – Whether or not the device is awake (screensaver is not running), or `None` if it was not determined
- **audio_state** (*str, None*) – The audio state, as determined from “dumpsys audio”, or `None` if it was not determined
- **wake_lock_size** (*int, None*) – The size of the current wake lock, or `None` if it was not determined
- **current_app** (*str, None*) – The current app property, or `None` if it was not determined
- **media_session_state** (*int, None*) – The state from the output of `dumpsys media_session`, or `None` if it was not determined
- **audio_output_device** (*str, None*) – The current audio playback device, or `None` if it was not determined
- **is_volume_muted** (*bool, None*) – Whether or not the volume is muted, or `None` if it was not determined
- **volume** (*int, None*) – The absolute volume level, or `None` if it was not determined
- **running_apps** (*list, None*) – A list of the running apps, or `None` if it was not determined

_update (*screen_on, awake, audio_state, wake_lock_size, current_app, media_session_state, audio_output_device, is_volume_muted, volume, running_apps*)

Get the info needed for a Home Assistant update.

Parameters

- **screen_on** (*bool, None*) – Whether or not the device is on, or `None` if it was not determined
- **awake** (*bool, None*) – Whether or not the device is awake (screensaver is not running), or `None` if it was not determined
- **audio_state** (*str, None*) – The audio state, as determined from “dumpsys audio”, or `None` if it was not determined
- **wake_lock_size** (*int, None*) – The size of the current wake lock, or `None` if it was not determined
- **current_app** (*str, None*) – The current app property, or `None` if it was not determined
- **media_session_state** (*int, None*) – The state from the output of `dumpsys media_session`, or `None` if it was not determined
- **audio_output_device** (*str, None*) – The current audio playback device, or `None` if it was not determined
- **is_volume_muted** (*bool, None*) – Whether or not the volume is muted, or `None` if it was not determined
- **volume** (*int, None*) – The absolute volume level, or `None` if it was not determined
- **running_apps** (*list, None*) – A list of the running apps, or `None` if it was not determined

Returns

- **state** (*str*) – The state of the device
- **current_app** (*str*) – The current running app
- **running_apps** (*list*) – A list of the running apps if `get_running_apps` is `True`, otherwise the list [`current_app`]
- **audio_output_device** (*str*) – The current audio playback device
- **is_volume_muted** (*bool*) – Whether or not the volume is muted
- **volume_level** (*float*) – The volume level (between 0 and 1)

Module contents

androidtv.basetv package

Submodules

androidtv.basetv.basetv module

Communicate with an Android TV or Amazon Fire TV device via ADB over a network.

ADB Debugging must be enabled.

```
class androidtv.basetv.basetv.BaseTV(adb, host, port=5555, adbkey="", adb_server_ip="",
                                       adb_server_port=5037, state_detection_rules=None)
```

Bases: object

Base class for representing an Android TV / Fire TV device.

The `state_detection_rules` parameter is of the format:

```
state_detection_rules = {'com.amazon.tv.launcher': ['idle'],
                        'com.netflix.ninja': ['media_session_state'],
                        'com.ellation.vrv': ['audio_state'],
                        'com.hulu.plus': [{'playing': {'wake_lock_size' : 4}},
                                           {'paused': {'wake_lock_size': 2}}],
                        'com.plexapp.android': [{'paused': {'media_session_state
↳ ': 3, 'wake_lock_size': 1}},
                                                {'playing': {'media_session_state
↳ ': 3}},
                                                'idle']}]
```

The keys are app IDs, and the values are lists of rules that are evaluated in order.

VALID_STATES

```
VALID_STATES = ('idle', 'off', 'playing', 'paused', 'standby')
```

Valid rules:

- 'idle', 'playing', 'paused', 'standby', or 'off' = always report the specified state when this app is open
- 'media_session_state' = try to use the `media_session_state()` property to determine the state
- 'audio_state' = try to use the `audio_state()` property to determine the state

- `{ '<VALID_STATE>': { '<PROPERTY1>': VALUE1, '<PROPERTY2>': VALUE2, ... } }` = check if each of the properties is equal to the specified value, and if so return the state
 - The valid properties are `'media_session_state'`, `'audio_state'`, and `'wake_lock_size'`

Parameters

- **adb** (`ADBPYTHONSync`, `ADBServerSync`, `ADBPYTHONAsync`, `ADBServerAsync`) – The handler for ADB commands
- **host** (`str`) – The address of the device; may be an IP address or a host name
- **port** (`int`) – The device port to which we are connecting (default is 5555)
- **adbkey** (`str`) – The path to the adbkey file for ADB authentication
- **adb_server_ip** (`str`) – The IP address of the ADB server
- **adb_server_port** (`int`) – The port for the ADB server
- **state_detection_rules** (`dict`, `None`) – A dictionary of rules for determining the state (see above)

static _audio_output_device (`stream_music`)

Get the current audio playback device from the `STREAM_MUSIC` block from `adb shell dumpsys audio`.

Parameters **stream_music** (`str`, `None`) – The `STREAM_MUSIC` block from `adb shell dumpsys audio`

Returns The current audio playback device, or `None` if it could not be determined

Return type `str`, `None`

static _audio_state (`audio_state_response`)

Parse the `audio_state()` property from the output of the command `androidtv.constants.CMD_AUDIO_STATE`.

Parameters **audio_state_response** (`str`, `None`) – The output of the command `androidtv.constants.CMD_AUDIO_STATE`

Returns The audio state, or `None` if it could not be determined

Return type `str`, `None`

static _conditions_are_true (`conditions`, `media_session_state=None`, `wake_lock_size=None`, `audio_state=None`)

Check whether the conditions in `conditions` are true.

Parameters

- **conditions** (`dict`) – A dictionary of conditions to be checked (see the `state_detection_rules` parameter in `BaseTV`)
- **media_session_state** (`int`, `None`) – The `media_session_state()` property
- **wake_lock_size** (`int`, `None`) – The `wake_lock_size()` property
- **audio_state** (`str`, `None`) – The `audio_state()` property

Returns Whether or not all the conditions in `conditions` are true

Return type `bool`

static `_current_app` (*current_app_response*)

Get the current app from the output of the command `androidtv.constants.CMD_CURRENT_APP`.

Parameters `current_app_response` (*str*, *None*) – The output from the ADB command `androidtv.constants.CMD_CURRENT_APP`

Returns The current app, or *None* if it could not be determined

Return type *str*, *None*

_current_app_media_session_state (*media_session_state_response*)

Get the current app and the media session state properties from the output of `androidtv.constants.CMD_MEDIA_SESSION_STATE_FULL`.

Parameters `media_session_state_response` (*str*, *None*) – The output of `androidtv.constants.CMD_MEDIA_SESSION_STATE_FULL`

Returns

- `current_app` (*str*, *None*) – The current app, or *None* if it could not be determined
- `media_session_state` (*int*, *None*) – The state from the output of the ADB shell command, or *None* if it could not be determined

_custom_state_detection (*current_app=None*, *media_session_state=None*, *wake_lock_size=None*, *audio_state=None*)

Use the rules in `self._state_detection_rules` to determine the state.

Parameters

- `current_app` (*str*, *None*) – The `current_app()` property
- `media_session_state` (*int*, *None*) – The `media_session_state()` property
- `wake_lock_size` (*int*, *None*) – The `wake_lock_size()` property
- `audio_state` (*str*, *None*) – The `audio_state()` property

Returns The state, if it could be determined using the rules in `self._state_detection_rules`; otherwise, *None*

Return type *str*, *None*

static `_is_volume_muted` (*stream_music*)

Determine whether or not the volume is muted from the `STREAM_MUSIC` block from `adb shell dumpsys audio`.

Parameters `stream_music` (*str*, *None*) – The `STREAM_MUSIC` block from `adb shell dumpsys audio`

Returns Whether or not the volume is muted, or *None* if it could not be determined

Return type *bool*, *None*

static `_media_session_state` (*media_session_state_response*, *current_app*)

Get the state from the output of `androidtv.constants.CMD_MEDIA_SESSION_STATE`.

Parameters

- `media_session_state_response` (*str*, *None*) – The output of `androidtv.constants.CMD_MEDIA_SESSION_STATE`
- `current_app` (*str*, *None*) – The current app, or *None* if it could not be determined

Returns The state from the output of the ADB shell command, or *None* if it could not be determined

Return type int, None

`_parse_device_properties` (*properties*)

Return a dictionary of device properties.

Parameters **properties** (*str*, *None*) – The output of the ADB command that retrieves the device properties

Returns A dictionary with keys 'wifimac', 'ethmac', 'serialno', 'manufacturer', 'model', and 'sw_version'

Return type dict

static **`_parse_getevent_line`** (*line*)

Parse a line of the output received in `learn_sendevent`.

Parameters **line** (*str*) – A line of output from `learn_sendevent`

Returns The properly formatted `sendevent` command

Return type str

static **`_parse_stream_music`** (*stream_music_raw*)

Parse the output of the command `androidtv.constants.CMD_STREAM_MUSIC`.

Parameters **stream_music_raw** (*str*, *None*) – The output of the command `androidtv.constants.CMD_STREAM_MUSIC`

Returns The `STREAM_MUSIC` block from the output of `androidtv.constants.CMD_STREAM_MUSIC`, or *None* if it could not be determined

Return type str, None

static **`_running_apps`** (*running_apps_response*)

Get the running apps from the output of `androidtv.constants.CMD_RUNNING_APPS`.

Parameters **running_apps_response** (*str*, *None*) – The output of `androidtv.constants.CMD_RUNNING_APPS`

Returns A list of the running apps, or *None* if it could not be determined

Return type list, None

`_volume` (*stream_music*, *audio_output_device*)

Get the absolute volume level from the `STREAM_MUSIC` block from `adb shell dumpsys audio`.

Parameters

- **stream_music** (*str*, *None*) – The `STREAM_MUSIC` block from `adb shell dumpsys audio`
- **audio_output_device** (*str*, *None*) – The current audio playback device

Returns The absolute volume level, or *None* if it could not be determined

Return type int, None

`_volume_level` (*volume*)

Get the relative volume level from the absolute volume level.

Parameters **volume** (*int*, *None*) – The absolute volume level

Returns The volume level (between 0 and 1), or *None* if it could not be determined

Return type float, None

static `_wake_lock_size(wake_lock_size_response)`

Get the size of the current wake lock from the output of `androidtv.constants.CMD_WAKE_LOCK_SIZE`.

Parameters `wake_lock_size_response(str, None)` – The output of `androidtv.constants.CMD_WAKE_LOCK_SIZE`

Returns The size of the current wake lock, or None if it could not be determined

Return type int, None

property available

Whether the ADB connection is intact.

Returns Whether or not the ADB connection is intact

Return type bool

`androidtv.basetv.basetv.state_detection_rules_validator(rules, exc=<class 'KeyError'>)`

Validate the rules (i.e., the `state_detection_rules` value) for a given app ID (i.e., a key in `state_detection_rules`).

For each rule in `rules`, this function checks that:

- rule is a string or a dictionary
- If rule is a string:
 - Check that rule is in `VALID_STATES` or `VALID_STATE_PROPERTIES`
- If rule is a dictionary:
 - Check that each key is in `VALID_STATES`
 - Check that each value is a dictionary
 - * Check that each key is in `VALID_PROPERTIES`
 - * Check that each value is of the right type, according to `VALID_PROPERTIES_TYPES`

See `BaseTV` for more info about the `state_detection_rules` parameter.

Parameters

- **rules** (*list*) – A list of the rules that will be used to determine the state
- **exc** (*Exception*) – The exception that will be raised if a rule is invalid

Returns `rules` – The provided list of rules

Return type list

androidtv.basetv.basetv_async module

Communicate with an Android TV or Amazon Fire TV device via ADB over a network.

ADB Debugging must be enabled.

```
class androidtv.basetv.basetv_async.BaseTVAsync(host,          port=5555,          adb_bkey="",          adb_server_ip="",          adb_server_port=5037,          state_detection_rules=None,          signer=None)
```

Bases: `androidtv.basetv.basetv.BaseTV`

Base class for representing an Android TV / Fire TV device.

The `state_detection_rules` parameter is of the format:

```
state_detection_rules = {'com.amazon.tv.launcher': ['idle'],
                        'com.netflix.ninja': ['media_session_state'],
                        'com.ellation.vrv': ['audio_state'],
                        'com.hulu.plus': [{'playing': {'wake_lock_size' : 4}},
                                           {'paused': {'wake_lock_size': 2}}],
                        'com.plexapp.android': [{'paused': {'media_session_state': 3, 'wake_lock_size': 1}},
                                                {'playing': {'media_session_state': 3}},
                                                {'idle'}]}
```

The keys are app IDs, and the values are lists of rules that are evaluated in order.

`VALID_STATES`

```
VALID_STATES = ('idle', 'off', 'playing', 'paused', 'standby')
```

Valid rules:

- 'idle', 'playing', 'paused', 'standby', or 'off' = always report the specified state when this app is open
- 'media_session_state' = try to use the `media_session_state()` property to determine the state
- 'audio_state' = try to use the `audio_state()` property to determine the state
- {'<VALID_STATE>': {'<PROPERTY1>': VALUE1, '<PROPERTY2>': VALUE2, ...}} = check if each of the properties is equal to the specified value, and if so return the state
 - The valid properties are 'media_session_state', 'audio_state', and 'wake_lock_size'

Parameters

- **host** (*str*) – The address of the device; may be an IP address or a host name
- **port** (*int*) – The device port to which we are connecting (default is 5555)
- **adbkey** (*str*) – The path to the adbkey file for ADB authentication
- **adb_server_ip** (*str*) – The IP address of the ADB server
- **adb_server_port** (*int*) – The port for the ADB server
- **state_detection_rules** (*dict*, *None*) – A dictionary of rules for determining the state (see above)
- **signer** (*PythonRSASigner*, *None*) – The signer for the ADB keys, as loaded by `androidtv.adb_manager.adb_manager_async.ADBPythonAsync.load_adbkey()`

async_get_stream_music (*stream_music_raw=None*)

Get the STREAM_MUSIC block from the output of the command `androidtv.constants.CMD_STREAM_MUSIC`.

Parameters **stream_music_raw** (*str*, *None*) – The output of the command `androidtv.constants.CMD_STREAM_MUSIC`

Returns The `STREAM_MUSIC` block from the output of `androidtv.constants.CMD_STREAM_MUSIC`, or `None` if it could not be determined

Return type `str`, `None`

async _key (*key*)

Send a key event to device.

Parameters **key** (*str*, *int*) – The Key constant

async _send_intent (*pkg*, *intent*, *count=1*)

Send an intent to the device.

Parameters

- **pkg** (*str*) – The command that will be sent is `monkey -p <pkg> -c <intent> <count>; echo $?`
- **intent** (*str*) – The command that will be sent is `monkey -p <pkg> -c <intent> <count>; echo $?`
- **count** (*int*, *str*) – The command that will be sent is `monkey -p <pkg> -c <intent> <count>; echo $?`

Returns A dictionary with keys 'output' and 'retcode', if they could be determined; otherwise, an empty dictionary

Return type `dict`

async adb_close ()

Close the ADB connection.

This only works for the Python ADB implementation (see `androidtv.adb_manager.adb_manager_async.ADBPython.close()`). For the ADB server approach, this doesn't do anything (see `androidtv.adb_manager.adb_manager_async.ADBServer.close()`).

async adb_connect (*always_log_errors=True*, *auth_timeout_s=10.0*)

Connect to an Android TV / Fire TV device.

Parameters

- **always_log_errors** (*bool*) – If `True`, errors will always be logged; otherwise, errors will only be logged on the first failed reconnect attempt
- **auth_timeout_s** (*float*) – Authentication timeout (in seconds)

Returns Whether or not the connection was successfully established and the device is available

Return type `bool`

async adb_pull (*local_path*, *device_path*)

Pull a file from the device.

This calls `androidtv.adb_manager.adb_manager_async.ADBPythonAsync.pull()` or `androidtv.adb_manager.adb_manager_async.ADBServerAsync.pull()`, depending on whether the Python ADB implementation or an ADB server is used for communicating with the device.

Parameters

- **local_path** (*str*) – The path where the file will be saved
- **device_path** (*str*) – The file on the device that will be pulled

async adb_push (*local_path*, *device_path*)

Push a file to the device.

This calls `androidtv.adb_manager.adb_manager_async.ADBPythonAsync.push()` or `androidtv.adb_manager.adb_manager_async.ADBServerAsync.push()`, depending on whether the Python ADB implementation or an ADB server is used for communicating with the device.

Parameters

- **local_path** (*str*) – The file that will be pushed to the device
- **device_path** (*str*) – The path where the file will be saved on the device

async adb_screenshot()

Take a screenshot.

This calls `androidtv.adb_manager.adb_manager_async.ADBPythonAsync.screenshot()` or `androidtv.adb_manager.adb_manager_async.ADBServerAsync.screenshot()`, depending on whether the Python ADB implementation or an ADB server is used for communicating with the device.

Returns The screenshot as a binary .png image

Return type bytes

async adb_shell(cmd)

Send an ADB command.

This calls `androidtv.adb_manager.adb_manager_async.ADBPythonAsync.shell()` or `androidtv.adb_manager.adb_manager_async.ADBServerAsync.shell()`, depending on whether the Python ADB implementation or an ADB server is used for communicating with the device.

Parameters **cmd** (*str*) – The ADB command to be sent

Returns The response from the device, if there is a response

Return type str, None

async audio_output_device()

Get the current audio playback device.

Returns The current audio playback device, or None if it could not be determined

Return type str, None

async audio_state()

Check if audio is playing, paused, or idle.

Returns The audio state, as determined from the ADB shell command `androidtv.constants.CMD_AUDIO_STATE`, or None if it could not be determined

Return type str, None

async awake()

Check if the device is awake (screensaver is not running).

Returns Whether or not the device is awake (screensaver is not running)

Return type bool

async back()

Send back action.

async current_app()

Return the current app.

Returns The ID of the current app, or None if it could not be determined

Return type str, None

async down()

Send down action.

async enter()

Send enter action.

async get_device_properties()

Return a dictionary of device properties.

Returns props – A dictionary with keys 'wifimac', 'ethmac', 'serialno', 'manufacturer', 'model', and 'sw_version'

Return type dict

async home()

Send home action.

async is_volume_muted()

Whether or not the volume is muted.

Returns Whether or not the volume is muted, or `None` if it could not be determined

Return type bool, None

async key_0()

Send 0 keypress.

async key_1()

Send 1 keypress.

async key_2()

Send 2 keypress.

async key_3()

Send 3 keypress.

async key_4()

Send 4 keypress.

async key_5()

Send 5 keypress.

async key_6()

Send 6 keypress.

async key_7()

Send 7 keypress.

async key_8()

Send 8 keypress.

async key_9()

Send 9 keypress.

async key_a()

Send a keypress.

async key_b()

Send b keypress.

async key_c()

Send c keypress.

async key_d()

Send d keypress.

async key_e()
Send e keypress.

async key_f()
Send f keypress.

async key_g()
Send g keypress.

async key_h()
Send h keypress.

async key_i()
Send i keypress.

async key_j()
Send j keypress.

async key_k()
Send k keypress.

async key_l()
Send l keypress.

async key_m()
Send m keypress.

async key_n()
Send n keypress.

async key_o()
Send o keypress.

async key_p()
Send p keypress.

async key_q()
Send q keypress.

async key_r()
Send r keypress.

async key_s()
Send s keypress.

async key_t()
Send t keypress.

async key_u()
Send u keypress.

async key_v()
Send v keypress.

async key_w()
Send w keypress.

async key_x()
Send x keypress.

async key_y()
Send y keypress.

async key_z()

Send z keypress.

async launch_app(app)

Launch an app.

Parameters *app* (*str*) – The ID of the app that will be launched

async learn_sendevent (*timeout_s=8*)

Capture an event (e.g., a button press) via `getevent` and convert it into `sendevent` commands.

For more info, see:

- <http://ktnr74.blogspot.com/2013/06/emulating-touchscreen-interaction-with.html?m=1>
- <https://qatesttech.wordpress.com/2012/06/21/turning-the-output-from-getevent-into-something-something-that-can-be>

Parameters *timeout_s* (*int*) – The timeout in seconds to wait for events

Returns The events converted to `sendevent` commands

Return type *str*

async left()

Send left action.

async media_next_track()

Send media next action (results in fast-forward).

async media_pause()

Send media pause action.

async media_play()

Send media play action.

async media_play_pause()

Send media play/pause action.

async media_previous_track()

Send media previous action (results in rewind).

async media_session_state()

Get the state from the output of `dumpsys media_session`.

Returns The state from the output of the ADB shell command `dumpsys media_session`, or `None` if it could not be determined

Return type *int*, `None`

async media_stop()

Send media stop action.

async menu()

Send menu action.

async mute_volume()

Mute the volume.

async power()

Send power action.

async right()

Send right action.

async screen_on()

Check if the screen is on.

Returns Whether or not the device is on

Return type bool

async set_volume_level(volume_level)

Set the volume to the desired level.

Parameters **volume_level** (*float*) – The new volume level (between 0 and 1)

Returns The new volume level (between 0 and 1), or None if `self.max_volume` could not be determined

Return type float, None

async sleep()

Send sleep action.

async space()

Send space keypress.

async start_intent(uri)

Start an intent on the device.

Parameters **uri** (*str*) – The intent that will be sent is `am start -a android.intent.action.VIEW -d <uri>`

async stop_app(app)

Stop an app.

Parameters **app** (*str*) – The ID of the app that will be stopped

Returns The output of the `am force-stop` ADB shell command, or None if the device is unavailable

Return type str, None

async up()

Send up action.

async volume()

Get the absolute volume level.

Returns The absolute volume level, or None if it could not be determined

Return type int, None

async volume_down(current_volume_level=None)

Send volume down action.

Parameters **current_volume_level** (*float, None*) – The current volume level (between 0 and 1); if it is not provided, it will be determined

Returns The new volume level (between 0 and 1), or None if `self.max_volume` could not be determined

Return type float, None

async volume_level()

Get the relative volume level.

Returns The volume level (between 0 and 1), or None if it could not be determined

Return type float, None

async volume_up (*current_volume_level=None*)

Send volume up action.

Parameters **current_volume_level** (*float, None*) – The current volume level (between 0 and 1); if it is not provided, it will be determined

Returns The new volume level (between 0 and 1), or None if `self.max_volume` could not be determined

Return type float, None

async wake_lock_size ()

Get the size of the current wake lock.

Returns The size of the current wake lock, or None if it could not be determined

Return type int, None

androidtv.basetv.basetv_sync module

Communicate with an Android TV or Amazon Fire TV device via ADB over a network.

ADB Debugging must be enabled.

```
class androidtv.basetv.basetv_sync.BaseTVSync (host, port=5555, adb_key="  

bkey=", adb_server_ip=",  

adb_server_port=5037,  

state_detection_rules=None,  

signer=None)
```

Bases: *androidtv.basetv.basetv.BaseTV*

Base class for representing an Android TV / Fire TV device.

The `state_detection_rules` parameter is of the format:

```
state_detection_rules = {'com.amazon.tv.launcher': ['idle'],
                        'com.netflix.ninja': ['media_session_state'],
                        'com.ellation.vrv': ['audio_state'],
                        'com.hulu.plus': [{'playing': {'wake_lock_size': 4}},
                                           {'paused': {'wake_lock_size': 2}}],
                        'com.plexapp.android': [{'paused': {'media_session_state
↪': 3, 'wake_lock_size': 1}},
                                                {'playing': {'media_session_state
↪': 3}},
                                                'idle']}
```

The keys are app IDs, and the values are lists of rules that are evaluated in order.

VALID_STATES

```
VALID_STATES = ('idle', 'off', 'playing', 'paused', 'standby')
```

Valid rules:

- 'idle', 'playing', 'paused', 'standby', or 'off' = always report the specified state when this app is open
- 'media_session_state' = try to use the *media_session_state()* property to determine the state
- 'audio_state' = try to use the *audio_state()* property to determine the state

- {'<VALID_STATE>': {'<PROPERTY1>': VALUE1, '<PROPERTY2>': VALUE2, ...}} = check if each of the properties is equal to the specified value, and if so return the state
 - The valid properties are 'media_session_state', 'audio_state', and 'wake_lock_size'

Parameters

- **host** (*str*) – The address of the device; may be an IP address or a host name
- **port** (*int*) – The device port to which we are connecting (default is 5555)
- **adbkey** (*str*) – The path to the adbkey file for ADB authentication
- **adb_server_ip** (*str*) – The IP address of the ADB server
- **adb_server_port** (*int*) – The port for the ADB server
- **state_detection_rules** (*dict*, *None*) – A dictionary of rules for determining the state (see above)
- **signer** (*PythonRSASigner*, *None*) – The signer for the ADB keys, as loaded by `androidtv.adb_manager.adb_manager_sync.ADBPythonSync.load_adbkey()`

_get_stream_music (*stream_music_raw=None*)

Get the STREAM_MUSIC block from the output of the command `androidtv.constants.CMD_STREAM_MUSIC`.

Parameters **stream_music_raw** (*str*, *None*) – The output of the command `androidtv.constants.CMD_STREAM_MUSIC`

Returns The STREAM_MUSIC block from the output of `androidtv.constants.CMD_STREAM_MUSIC`, or *None* if it could not be determined

Return type *str*, *None*

_key (*key*)

Send a key event to device.

Parameters **key** (*str*, *int*) – The Key constant

_send_intent (*pkg*, *intent*, *count=1*)

Send an intent to the device.

Parameters

- **pkg** (*str*) – The command that will be sent is monkey -p <pkg> -c <intent> <count>; echo \$?
- **intent** (*str*) – The command that will be sent is monkey -p <pkg> -c <intent> <count>; echo \$?
- **count** (*int*, *str*) – The command that will be sent is monkey -p <pkg> -c <intent> <count>; echo \$?

Returns A dictionary with keys 'output' and 'retcode', if they could be determined; otherwise, an empty dictionary

Return type *dict*

adb_close ()

Close the ADB connection.

This only works for the Python ADB implementation (see `androidtv.adb_manager.adb_manager_sync.ADBPythonSync.close()`). For the ADB server approach, this doesn't do anything (see `androidtv.adb_manager.adb_manager_sync.ADBServerSync.close()`).

adb_connect (*always_log_errors=True, auth_timeout_s=10.0*)
Connect to an Android TV / Fire TV device.

Parameters

- **always_log_errors** (*bool*) – If True, errors will always be logged; otherwise, errors will only be logged on the first failed reconnect attempt
- **auth_timeout_s** (*float*) – Authentication timeout (in seconds)

Returns Whether or not the connection was successfully established and the device is available

Return type bool

adb_pull (*local_path, device_path*)
Pull a file from the device.

This calls `androidtv.adb_manager.adb_manager_sync.ADBPythonSync.pull()` or `androidtv.adb_manager.adb_manager_sync.ADBServerSync.pull()`, depending on whether the Python ADB implementation or an ADB server is used for communicating with the device.

Parameters

- **local_path** (*str*) – The path where the file will be saved
- **device_path** (*str*) – The file on the device that will be pulled

adb_push (*local_path, device_path*)
Push a file to the device.

This calls `androidtv.adb_manager.adb_manager_sync.ADBPythonSync.push()` or `androidtv.adb_manager.adb_manager_sync.ADBServerSync.push()`, depending on whether the Python ADB implementation or an ADB server is used for communicating with the device.

Parameters

- **local_path** (*str*) – The file that will be pushed to the device
- **device_path** (*str*) – The path where the file will be saved on the device

adb_screenshot ()
Take a screenshot.

This calls `androidtv.adb_manager.adb_manager_sync.ADBPythonSync.screenshot()` or `androidtv.adb_manager.adb_manager_sync.ADBServerSync.screenshot()`, depending on whether the Python ADB implementation or an ADB server is used for communicating with the device.

Returns The screenshot as a binary .png image

Return type bytes

adb_shell (*cmd*)
Send an ADB command.

This calls `androidtv.adb_manager.adb_manager_sync.ADBPythonSync.shell()` or `androidtv.adb_manager.adb_manager_sync.ADBServerSync.shell()`, depending on whether the Python ADB implementation or an ADB server is used for communicating with the device.

Parameters **cmd** (*str*) – The ADB command to be sent

Returns The response from the device, if there is a response

Return type str, None

audio_output_device()

Get the current audio playback device.

Returns The current audio playback device, or None if it could not be determined

Return type str, None

audio_state()

Check if audio is playing, paused, or idle.

Returns The audio state, as determined from the ADB shell command `androidtv.constants.CMD_AUDIO_STATE`, or None if it could not be determined

Return type str, None

awake()

Check if the device is awake (screensaver is not running).

Returns Whether or not the device is awake (screensaver is not running)

Return type bool

back()

Send back action.

current_app()

Return the current app.

Returns The ID of the current app, or None if it could not be determined

Return type str, None

down()

Send down action.

enter()

Send enter action.

get_device_properties()

Return a dictionary of device properties.

Returns props – A dictionary with keys 'wifimac', 'ethmac', 'serialno', 'manufacturer', 'model', and 'sw_version'

Return type dict

home()

Send home action.

is_volume_muted()

Whether or not the volume is muted.

Returns Whether or not the volume is muted, or None if it could not be determined

Return type bool, None

key_0()

Send 0 keypress.

key_1()

Send 1 keypress.

key_2()

Send 2 keypress.

key_3()
Send 3 keypress.

key_4()
Send 4 keypress.

key_5()
Send 5 keypress.

key_6()
Send 6 keypress.

key_7()
Send 7 keypress.

key_8()
Send 8 keypress.

key_9()
Send 9 keypress.

key_a()
Send a keypress.

key_b()
Send b keypress.

key_c()
Send c keypress.

key_d()
Send d keypress.

key_e()
Send e keypress.

key_f()
Send f keypress.

key_g()
Send g keypress.

key_h()
Send h keypress.

key_i()
Send i keypress.

key_j()
Send j keypress.

key_k()
Send k keypress.

key_l()
Send l keypress.

key_m()
Send m keypress.

key_n()
Send n keypress.

key_o()
Send o keypress.

key_p()
Send p keypress.

key_q()
Send q keypress.

key_r()
Send r keypress.

key_s()
Send s keypress.

key_t()
Send t keypress.

key_u()
Send u keypress.

key_v()
Send v keypress.

key_w()
Send w keypress.

key_x()
Send x keypress.

key_y()
Send y keypress.

key_z()
Send z keypress.

launch_app(app)
Launch an app.

Parameters **app** (*str*) – The ID of the app that will be launched

learn_sendevent (*timeout_s=8*)
Capture an event (e.g., a button press) via `getevent` and convert it into `sendevent` commands.

For more info, see:

- <http://ktnr74.blogspot.com/2013/06/emulating-touchscreen-interaction-with.html?m=1>
- <https://qatesttech.wordpress.com/2012/06/21/turning-the-output-from-getevent-into-something-something-that-can-be>

Parameters **timeout_s** (*int*) – The timeout in seconds to wait for events

Returns The events converted to `sendevent` commands

Return type `str`

left()
Send left action.

media_next_track()
Send media next action (results in fast-forward).

media_pause()
Send media pause action.

media_play()

Send media play action.

media_play_pause()

Send media play/pause action.

media_previous_track()

Send media previous action (results in rewind).

media_session_state()

Get the state from the output of `dumpsys media_session`.

Returns The state from the output of the ADB shell command `dumpsys media_session`, or `None` if it could not be determined

Return type `int`, `None`

media_stop()

Send media stop action.

menu()

Send menu action.

mute_volume()

Mute the volume.

power()

Send power action.

right()

Send right action.

screen_on()

Check if the screen is on.

Returns Whether or not the device is on

Return type `bool`

set_volume_level(*volume_level*)

Set the volume to the desired level.

Parameters **volume_level** (*float*) – The new volume level (between 0 and 1)

Returns The new volume level (between 0 and 1), or `None` if `self.max_volume` could not be determined

Return type `float`, `None`

sleep()

Send sleep action.

space()

Send space keypress.

start_intent(*uri*)

Start an intent on the device.

Parameters **uri** (*str*) – The intent that will be sent is `am start -a android.intent.action.VIEW -d <uri>`

stop_app(*app*)

Stop an app.

Parameters **app** (*str*) – The ID of the app that will be stopped

Returns The output of the `am force-stop` ADB shell command, or `None` if the device is unavailable

Return type `str`, `None`

up()

Send up action.

volume()

Get the absolute volume level.

Returns The absolute volume level, or `None` if it could not be determined

Return type `int`, `None`

volume_down(*current_volume_level=None*)

Send volume down action.

Parameters **current_volume_level** (*float*, *None*) – The current volume level (between 0 and 1); if it is not provided, it will be determined

Returns The new volume level (between 0 and 1), or `None` if `self.max_volume` could not be determined

Return type `float`, `None`

volume_level()

Get the relative volume level.

Returns The volume level (between 0 and 1), or `None` if it could not be determined

Return type `float`, `None`

volume_up(*current_volume_level=None*)

Send volume up action.

Parameters **current_volume_level** (*float*, *None*) – The current volume level (between 0 and 1); if it is not provided, it will be determined

Returns The new volume level (between 0 and 1), or `None` if `self.max_volume` could not be determined

Return type `float`, `None`

wake_lock_size()

Get the size of the current wake lock.

Returns The size of the current wake lock, or `None` if it could not be determined

Return type `int`, `None`

Module contents

androidtv.firetv package

Submodules

androidtv.firetv.base_firetv module

Communicate with an Amazon Fire TV device via ADB over a network.

ADB Debugging must be enabled.


```
class androidtv.firetv.base_firetv.BaseFireTV(host,          port=5555,          adb_server_ip=adb_server_port=5037,
                                             adbkey="",          adb_server_ip="",
                                             adb_server_port=5037,
                                             state_detection_rules=None)
```

Bases: `androidtv.basetv.basetv.BaseTV`

Representation of an Amazon Fire TV device.

Parameters

- **host** (*str*) – The address of the device; may be an IP address or a host name
- **port** (*int*) – The device port to which we are connecting (default is 5555)
- **adbkey** (*str*) – The path to the adbkey file for ADB authentication
- **adb_server_ip** (*str*) – The IP address of the ADB server
- **adb_server_port** (*int*) – The port for the ADB server
- **state_detection_rules** (*dict*, *None*) – A dictionary of rules for determining the state (see `BaseTV`)

```
DEVICE_CLASS = 'firetv'
```

```
_get_properties (output, get_running_apps=True)
```

Get the properties needed for Home Assistant updates.

This will send one of the following ADB commands:

- `androidtv.constants.CMD_FIRETV_PROPERTIES_LAZY_RUNNING_APPS`
- `androidtv.constants.CMD_FIRETV_PROPERTIES_LAZY_NO_RUNNING_APPS`
- `androidtv.constants.CMD_FIRETV_PROPERTIES_NOT_LAZY_RUNNING_APPS`
- `androidtv.constants.CMD_FIRETV_PROPERTIES_NOT_LAZY_NO_RUNNING_APPS`

Parameters

- **output** (*str*, *None*) – The output of the ADB command used to retrieve the properties
- **get_running_apps** (*bool*) – Whether or not to get the `running_apps` property

Returns

- **screen_on** (*bool*, *None*) – Whether or not the device is on, or *None* if it was not determined
- **awake** (*bool*, *None*) – Whether or not the device is awake (screensaver is not running), or *None* if it was not determined
- **wake_lock_size** (*int*, *None*) – The size of the current wake lock, or *None* if it was not determined
- **current_app** (*str*, *None*) – The current app property, or *None* if it was not determined
- **media_session_state** (*int*, *None*) – The state from the output of `dumpsys media_session`, or *None* if it was not determined
- **running_apps** (*list*, *None*) – A list of the running apps, or *None* if it was not determined

```
_update (screen_on, awake, wake_lock_size, current_app, media_session_state, running_apps)
```

Get the info needed for a Home Assistant update.

Parameters

- **screen_on** (*bool*, *None*) – Whether or not the device is on, or *None* if it was not determined
- **awake** (*bool*, *None*) – Whether or not the device is awake (screensaver is not running), or *None* if it was not determined
- **wake_lock_size** (*int*, *None*) – The size of the current wake lock, or *None* if it was not determined
- **current_app** (*str*, *None*) – The current app property, or *None* if it was not determined
- **media_session_state** (*int*, *None*) – The state from the output of `dumpsys media_session`, or *None* if it was not determined
- **running_apps** (*list*, *None*) – A list of the running apps, or *None* if it was not determined

Returns

- **state** (*str*) – The state of the device
- **current_app** (*str*) – The current running app
- **running_apps** (*list*) – A list of the running apps if `get_running_apps` is `True`, otherwise the list `[current_app]`

androidtv.firetv.firetv_async module

Communicate with an Amazon Fire TV device via ADB over a network.

ADB Debugging must be enabled.

```
class androidtv.firetv.firetv_async.FireTVAsync (host, port=5555, adbkey=", adb_server_ip",
adb_server_port=5037,
state_detection_rules=None,
signer=None)
```

Bases: `androidtv.basetv.basetv_async.BaseTVAsync`, `androidtv.firetv.base_firetv.BaseFireTV`

Representation of an Amazon Fire TV device.

Parameters

- **host** (*str*) – The address of the device; may be an IP address or a host name
- **port** (*int*) – The device port to which we are connecting (default is 5555)
- **adbkey** (*str*) – The path to the `adbkey` file for ADB authentication
- **adb_server_ip** (*str*) – The IP address of the ADB server
- **adb_server_port** (*int*) – The port for the ADB server
- **state_detection_rules** (*dict*, *None*) – A dictionary of rules for determining the state (see `BaseTV`)
- **signer** (`PythonRSASigner`, *None*) – The signer for the ADB keys, as loaded by `androidtv.adb_manager.adb_manager_async.ADBPythonAsync.load_adbkey()`

async get_properties (*get_running_apps=True, lazy=False*)

Get the properties needed for Home Assistant updates.

This will send one of the following ADB commands:

- `androidtv.constants.CMD_FIRETV_PROPERTIES_LAZY_RUNNING_APPS`
- `androidtv.constants.CMD_FIRETV_PROPERTIES_LAZY_NO_RUNNING_APPS`
- `androidtv.constants.CMD_FIRETV_PROPERTIES_NOT_LAZY_RUNNING_APPS`
- `androidtv.constants.CMD_FIRETV_PROPERTIES_NOT_LAZY_NO_RUNNING_APPS`

Parameters

- **get_running_apps** (*bool*) – Whether or not to get the `running_apps()` property
- **lazy** (*bool*) – Whether or not to continue retrieving properties if the device is off or the screensaver is running

Returns

- **screen_on** (*bool, None*) – Whether or not the device is on, or *None* if it was not determined
- **awake** (*bool, None*) – Whether or not the device is awake (screensaver is not running), or *None* if it was not determined
- **wake_lock_size** (*int, None*) – The size of the current wake lock, or *None* if it was not determined
- **current_app** (*str, None*) – The current app property, or *None* if it was not determined
- **media_session_state** (*int, None*) – The state from the output of `dumpsys media_session`, or *None* if it was not determined
- **running_apps** (*list, None*) – A list of the running apps, or *None* if it was not determined

async get_properties_dict (*get_running_apps=True, lazy=True*)

Get the properties needed for Home Assistant updates and return them as a dictionary.

Parameters

- **get_running_apps** (*bool*) – Whether or not to get the `running_apps()` property
- **lazy** (*bool*) – Whether or not to continue retrieving properties if the device is off or the screensaver is running

Returns A dictionary with keys 'screen_on', 'awake', 'wake_lock_size', 'current_app', 'media_session_state', and 'running_apps'

Return type dict

async running_apps ()

Return a list of running user applications.

Returns A list of the running apps

Return type list

async turn_off ()

Send SLEEP action if the device is not off.

async turn_on ()

Send POWER and HOME actions if the device is off.

async update (*get_running_apps=True, lazy=True*)

Get the info needed for a Home Assistant update.

Parameters

- **get_running_apps** (*bool*) – Whether or not to get the `running_apps()` property
- **lazy** (*bool*) – Whether or not to continue retrieving properties if the device is off or the screensaver is running

Returns

- **state** (*str*) – The state of the device
- **current_app** (*str*) – The current running app
- **running_apps** (*list*) – A list of the running apps if `get_running_apps` is `True`, otherwise the list `[current_app]`

androidtv.firetv.firetv_sync module

Communicate with an Amazon Fire TV device via ADB over a network.

ADB Debugging must be enabled.

```
class androidtv.firetv.firetv_sync.FireTVSync (host, port=5555, adbkey="adb_server_ip=",
adb_server_port=5037,
state_detection_rules=None,
signer=None)
```

Bases: `androidtv.basetv.basetv_sync.BaseTVSync`, `androidtv.firetv.base_firetv.BaseFireTV`

Representation of an Amazon Fire TV device.

Parameters

- **host** (*str*) – The address of the device; may be an IP address or a host name
- **port** (*int*) – The device port to which we are connecting (default is 5555)
- **adbkey** (*str*) – The path to the adbkey file for ADB authentication
- **adb_server_ip** (*str*) – The IP address of the ADB server
- **adb_server_port** (*int*) – The port for the ADB server
- **state_detection_rules** (*dict, None*) – A dictionary of rules for determining the state (see `BaseTV`)
- **signer** (*PythonRSASigner, None*) – The signer for the ADB keys, as loaded by `androidtv.adb_manager.adb_manager_sync.ADBPythonSync.load_adbkey()`

get_properties (*get_running_apps=True, lazy=False*)

Get the properties needed for Home Assistant updates.

This will send one of the following ADB commands:

- `androidtv.constants.CMD_FIRETV_PROPERTIES_LAZY_RUNNING_APPS`
- `androidtv.constants.CMD_FIRETV_PROPERTIES_LAZY_NO_RUNNING_APPS`
- `androidtv.constants.CMD_FIRETV_PROPERTIES_NOT_LAZY_RUNNING_APPS`

- `androidtv.constants.CMD_FIRETV_PROPERTIES_NOT_LAZY_NO_RUNNING_APPS`

Parameters

- **get_running_apps** (*bool*) – Whether or not to get the `running_apps()` property
- **lazy** (*bool*) – Whether or not to continue retrieving properties if the device is off or the screensaver is running

Returns

- **screen_on** (*bool, None*) – Whether or not the device is on, or *None* if it was not determined
- **awake** (*bool, None*) – Whether or not the device is awake (screensaver is not running), or *None* if it was not determined
- **wake_lock_size** (*int, None*) – The size of the current wake lock, or *None* if it was not determined
- **current_app** (*str, None*) – The current app property, or *None* if it was not determined
- **media_session_state** (*int, None*) – The state from the output of `dumpsys media_session`, or *None* if it was not determined
- **running_apps** (*list, None*) – A list of the running apps, or *None* if it was not determined

get_properties_dict (*get_running_apps=True, lazy=True*)

Get the properties needed for Home Assistant updates and return them as a dictionary.

Parameters

- **get_running_apps** (*bool*) – Whether or not to get the `running_apps()` property
- **lazy** (*bool*) – Whether or not to continue retrieving properties if the device is off or the screensaver is running

Returns A dictionary with keys 'screen_on', 'awake', 'wake_lock_size', 'current_app', 'media_session_state', and 'running_apps'

Return type dict

running_apps ()

Return a list of running user applications.

Returns A list of the running apps

Return type list

turn_off ()

Send `SLEEP` action if the device is not off.

turn_on ()

Send `POWER` and `HOME` actions if the device is off.

update (*get_running_apps=True, lazy=True*)

Get the info needed for a Home Assistant update.

Parameters

- **get_running_apps** (*bool*) – Whether or not to get the `running_apps()` property
- **lazy** (*bool*) – Whether or not to continue retrieving properties if the device is off or the screensaver is running

Returns

- **state** (*str*) – The state of the device
- **current_app** (*str*) – The current running app
- **running_apps** (*list*) – A list of the running apps if `get_running_apps` is True, otherwise the list [`current_app`]

Module contents

2.1.2 Submodules

androidtv.constants module

Constants used throughout the code.

Links

- [ADB key event codes](#)
- [MediaSession PlaybackState property](#)

```
androidtv.constants.CMD_ANDROIDTV_PROPERTIES_LAZY_NO_RUNNING_APPS = "(dumpsys power | grep
    Get the properties for an Android TV device (lazy=True, get_running_apps=False); see
    androidtv.androidtv.androidtv_sync.AndroidTVSync.get_properties() and
    androidtv.androidtv.androidtv_async.AndroidTVAsync.get_properties()"
```

```
androidtv.constants.CMD_ANDROIDTV_PROPERTIES_LAZY_RUNNING_APPS = "(dumpsys power | grep 'D
    Get the properties for an Android TV device (lazy=True, get_running_apps=True); see
    androidtv.androidtv.androidtv_sync.AndroidTVSync.get_properties() and
    androidtv.androidtv.androidtv_async.AndroidTVAsync.get_properties()"
```

```
androidtv.constants.CMD_ANDROIDTV_PROPERTIES_NOT_LAZY_NO_RUNNING_APPS = "(dumpsys power | g
    Get the properties for an Android TV device (lazy=False, get_running_apps=False); see
    androidtv.androidtv.androidtv_sync.AndroidTVSync.get_properties() and
    androidtv.androidtv.androidtv_async.AndroidTVAsync.get_properties()"
```

```
androidtv.constants.CMD_ANDROIDTV_PROPERTIES_NOT_LAZY_RUNNING_APPS = "(dumpsys power | gre
    Get the properties for an Android TV device (lazy=False, get_running_apps=True); see
    androidtv.androidtv.androidtv_sync.AndroidTVSync.get_properties() and
    androidtv.androidtv.androidtv_async.AndroidTVAsync.get_properties()"
```

```
androidtv.constants.CMD_ANDROIDTV_RUNNING_APPS = 'ps -A | grep u0_a'
    Get the running apps for an Android TV device
```

```
androidtv.constants.CMD_AUDIO_STATE = "dumpsys audio | grep paused | grep -qv 'Buffer Queue
    Get the audio state"
```

```
androidtv.constants.CMD_AWAKE = 'dumpsys power | grep mWakefulness | grep -q Awake'
    Determine whether the device is awake
```

```
androidtv.constants.CMD_CURRENT_APP = 'CURRENT_APP=$(dumpsys window windows | grep mCurrent
    Get the current app
```

```
androidtv.constants.CMD_FIRETV_PROPERTIES_LAZY_NO_RUNNING_APPS = "(dumpsys power | grep 'D
    Get the properties for a Fire TV device (lazy=True, get_running_apps=False); see
    androidtv.firetv.firetv_sync.FireTVSync.get_properties() and androidtv.
    firetv.firetv_async.FireTVAsync.get_properties()"
```

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```
androidtv.constants.VALID_STATE_PROPERTIES = ('audio_state', 'media_session_state')
    Properties that can be used to determine the current state (used by
    state_detection_rules_validator())
```

androidtv.exceptions module

Exceptions for use throughout the code.

exception `androidtv.exceptions.LockNotAcquiredException`
 Bases: `Exception`

The ADB lock could not be acquired.

androidtv.setup_async module

Connect to a device and determine whether it's an Android TV or an Amazon Fire TV.

ADB Debugging must be enabled.

```
async androidtv.setup_async.setup(host, port=5555, adbkey="", adb_server_ip="",
                                   adb_server_port=5037, state_detection_rules=None,
                                   device_class='auto', auth_timeout_s=10.0, signer=None)
```

Connect to a device and determine whether it's an Android TV or an Amazon Fire TV.

Parameters

- **host** (*str*) – The address of the device; may be an IP address or a host name
- **port** (*int*) – The device port to which we are connecting (default is 5555)
- **adbkey** (*str*) – The path to the adbkey file for ADB authentication
- **adb_server_ip** (*str*) – The IP address of the ADB server
- **adb_server_port** (*int*) – The port for the ADB server
- **state_detection_rules** (*dict*, *None*) – A dictionary of rules for determining the state (see *BaseTV*)
- **device_class** (*str*) – The type of device: 'auto' (detect whether it is an Android TV or Fire TV device), 'androidtv', or 'firetv'
- **auth_timeout_s** (*float*) – Authentication timeout (in seconds)
- **signer** (*PythonRSASigner*, *None*) – The signer for the ADB keys, as loaded by `androidtv.adb_manager.adb_manager_async.ADBPythonAsync.load_adbkey()`

Returns The representation of the device

Return type *AndroidTVAsync*, *FireTVAsync*

2.1.3 Module contents

Connect to a device and determine whether it's an Android TV or an Amazon Fire TV.

ADB Debugging must be enabled.

`androidtv.ha_state_detection_rules_validator(exc)`

Validate the rules (i.e., the `state_detection_rules` value) for a given app ID (i.e., a key in `state_detection_rules`).

See [BaseTV](#) for more info about the `state_detection_rules` parameter.

Parameters `exc` (*Exception*) – The exception that will be raised if a rule is invalid

Returns `wrapped_state_detection_rules_validator` – A function that is the same as `state_detection_rules_validator()`, but with the `exc` argument provided

Return type function

`androidtv.setup(host, port=5555, adbkey="", adb_server_ip="", adb_server_port=5037, state_detection_rules=None, device_class='auto', auth_timeout_s=10.0, signer=None)`

Connect to a device and determine whether it's an Android TV or an Amazon Fire TV.

Parameters

- **host** (*str*) – The address of the device; may be an IP address or a host name
- **port** (*int*) – The device port to which we are connecting (default is 5555)
- **adbkey** (*str*) – The path to the adbkey file for ADB authentication
- **adb_server_ip** (*str*) – The IP address of the ADB server
- **adb_server_port** (*int*) – The port for the ADB server
- **state_detection_rules** (*dict*, *None*) – A dictionary of rules for determining the state (see [BaseTV](#))
- **device_class** (*str*) – The type of device: 'auto' (detect whether it is an Android TV or Fire TV device), 'androidtv', or 'firetv'
- **auth_timeout_s** (*float*) – Authentication timeout (in seconds)
- **signer** (*PythonRSASigner*, *None*) – The signer for the ADB keys, as loaded by `androidtv.adb_manager.adb_manager_sync.ADBPythonSync.load_adbkey()`

Returns The representation of the device

Return type [AndroidTVSync](#), [FireTVSync](#)

`androidtv` is a Python 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.

INSTALLATION

```
pip install androidtv
```

To utilize the async version of this code, you must install into a Python 3.7+ environment via:

```
pip install androidtv[async]
```


ADB INTENTS AND COMMANDS

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

ACKNOWLEDGMENTS

This is based on [python-firetv](#) by happyleavesaoc and the [androidtv](#) component for [Home Assistant](#) by alex4, and it depends on the Python packages [adb-shell](#) (which is based on [python-adb](#)) and [pure-python-adb](#).

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