



Shenzhen SEI Robotics Co., Ltd.

Add: 11F, Kangtai Group Building, No.222 Kefa Road, Science Park Community, Yuehai Street, Nanshan District, Shenzhen, China.
Tel: (+86)755 26613121 Fax: (+86)75526734204 Web: www.seirobotics.net

Data Access Manual for a Google TV Connected Device

Introduction

This document provides guidance on how users can access and export device-generated data from a Google TV connected device. The procedures described herein are based on the standard data access mechanisms provided by the Android/Google TV operating system, including Android Debug Bridge (ADB) and Android bug report functionality.

The purpose of this document is to support transparency regarding locally stored device data and to provide users with practical instructions for accessing available diagnostic and system information. The data remains stored on the device and can only be accessed through the methods described in this manual. SEI Robotics acts solely as a device manufacturer and does not act as a data holder for device-generated product data.

Preparation

This section outlines the basic tools and requirements needed to set up the environment for access and device communication. Please ensure all listed items are prepared before proceeding with the setup steps.

Item	Requirement/Note
ADB Tools	Download platform-tools (e.g., platform-tools_r33.0.3-windows.zip) from https://developer.android.com/studio/releases/platform-tools , unzip, and configure PATH
Device	Google TV STB device, USB cable (recommend original), PC computer
Device Settings	Need to enable Developer Options and USB Debugging on the STB device

Please note that this document is intended as a general guideline. Your specific case may differ; please consult us so we can provide recommendations tailored to your characteristics.



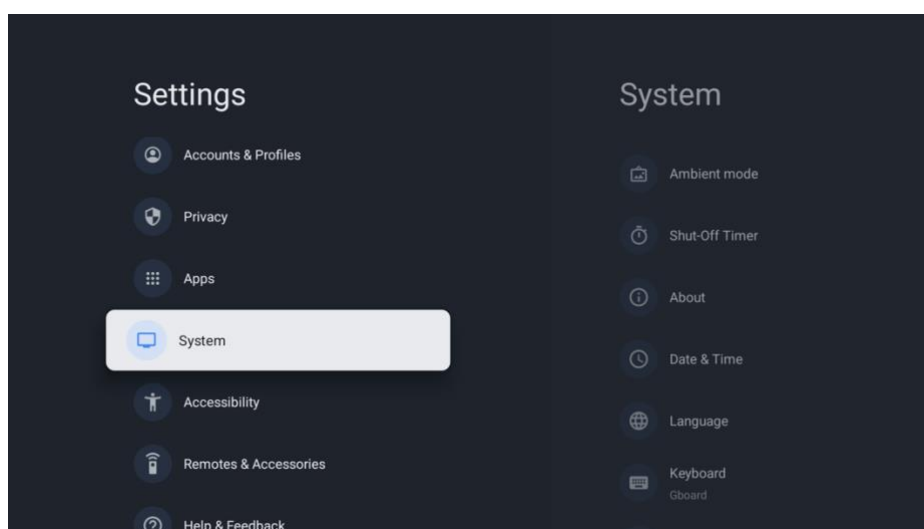
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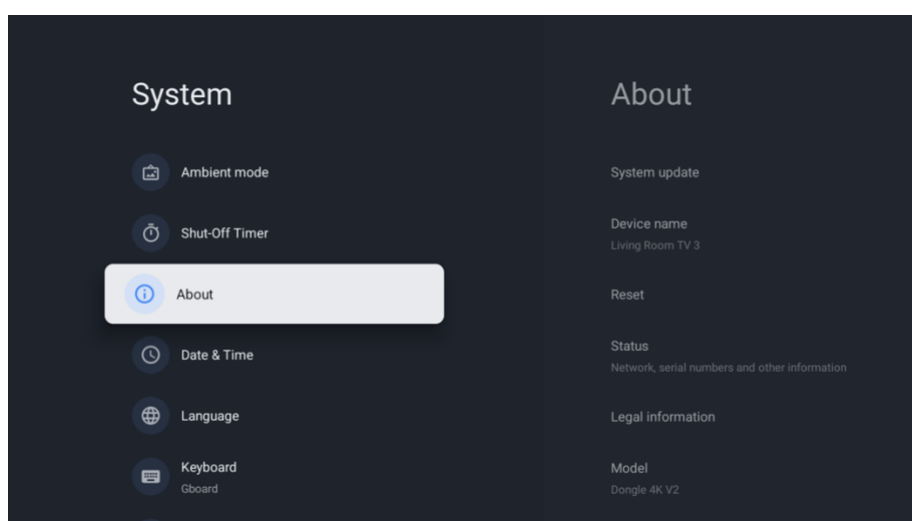
Method 1: USB Connection (Recommended)

Access device data through a direct USB connection between the Google TV device and a computer using Android Debug Bridge (ADB).

- 1) **Connect STB device to PC** using USB cable
- 2) **Start the STB device**
- 3) **Enable Developer Options and USB Debugging** on the STB device:
 - a) Go to **Settings** on your STB device
 - b) Select **"System"** (or **"Device Preferences"** depending on Android version)



- c) Select **"About"**



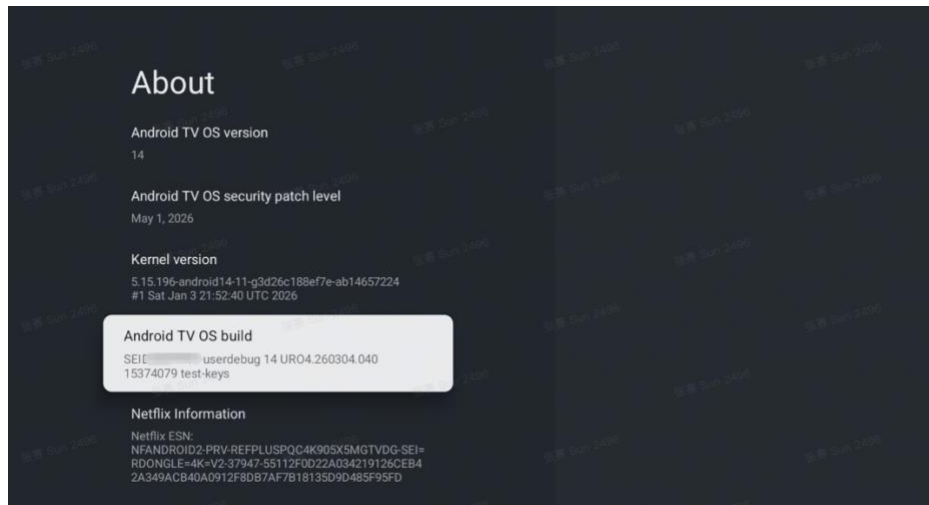


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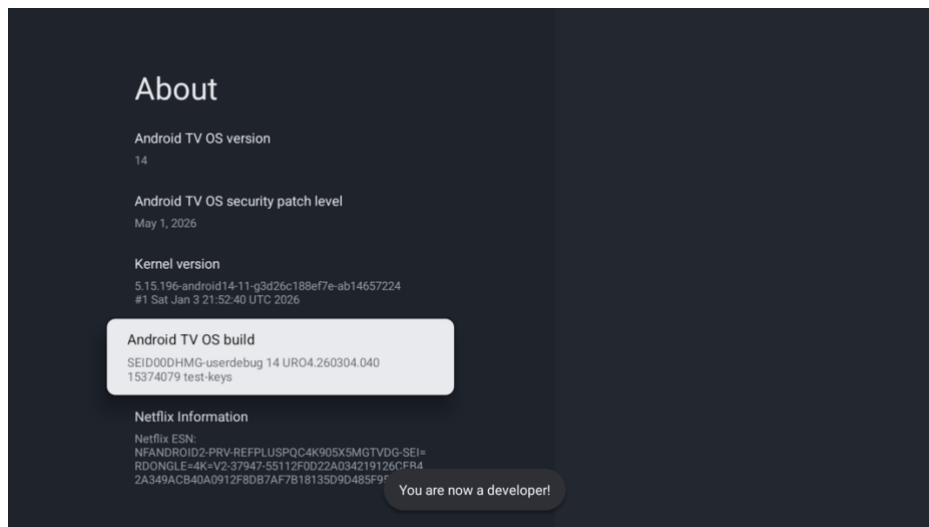
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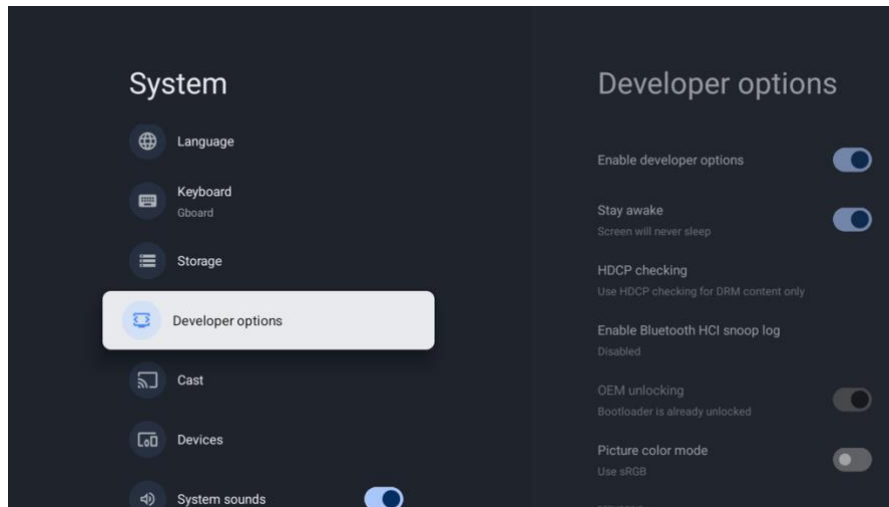
- d) Find **"Android TV OS build"** (or **"Version number"**)



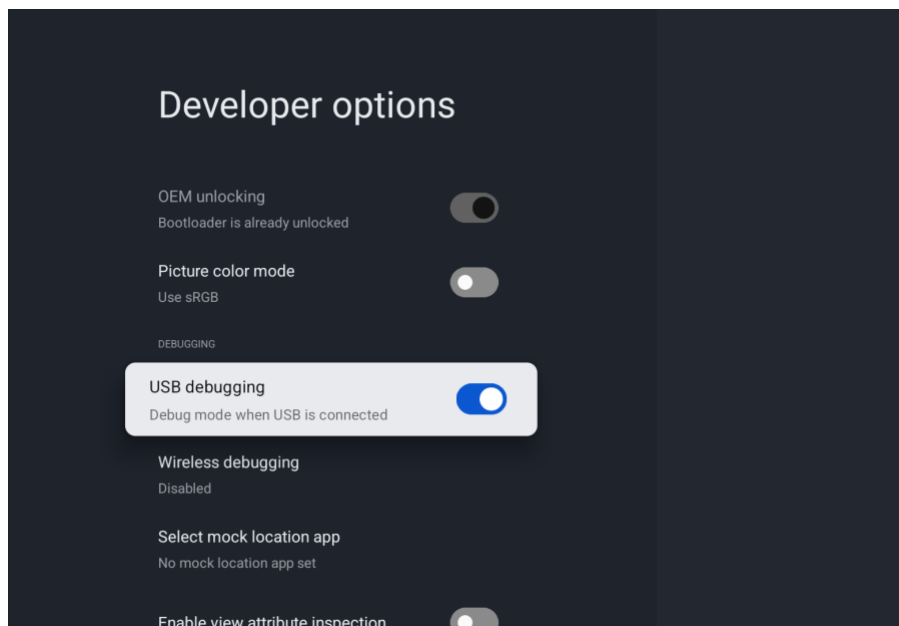
- e) Using the remote, click **7 times quickly** on this item
f) You'll see a message: **"You are now a developer!"**



g) Press Back to return to the System menu, now you'll see **"Developer options"**



h) Enter Developer options and turn on **"USB debugging"**



4) **Verify connection** on PC terminal: `adb devices`

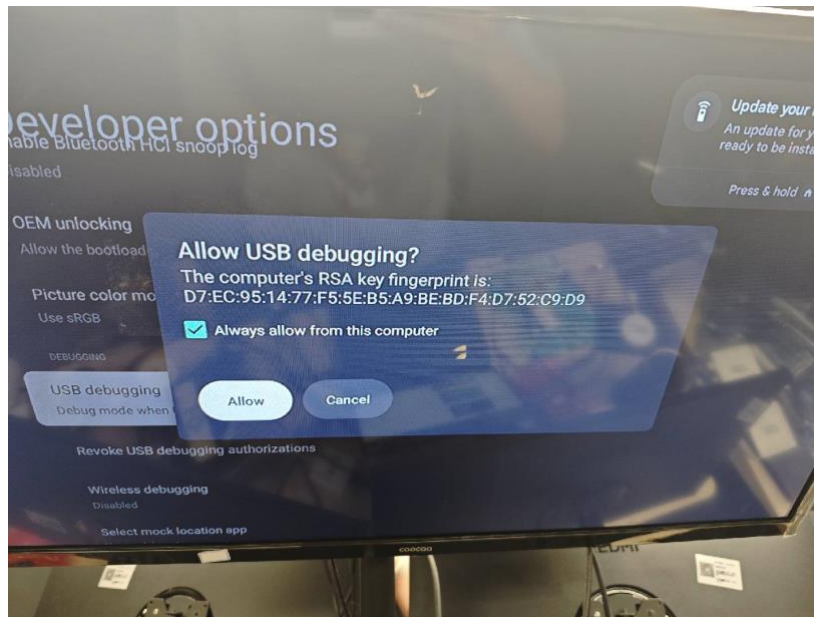
- a) **First-time authorization:** On first connection, a "Allow USB debugging?" dialog will appear on your STB screen
- b) **Use the remote** to select **"Allow"**
- c) **Optional:** Check **"Always allow from this computer"** to skip this prompt next time



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On PC, run `adb devices` again. If successful, you'll see your device listed with "device" status

```
C:\Users\zhangs>adb devices
List of devices attached
MKZ805c9780d05f341c    device
```

5) **Reproduce the issue** on the STB device

6) **Capture logs** on PC:

- `adb bugreport .`
- Or use `start .` to open the log directory and locate the generated bugreport file



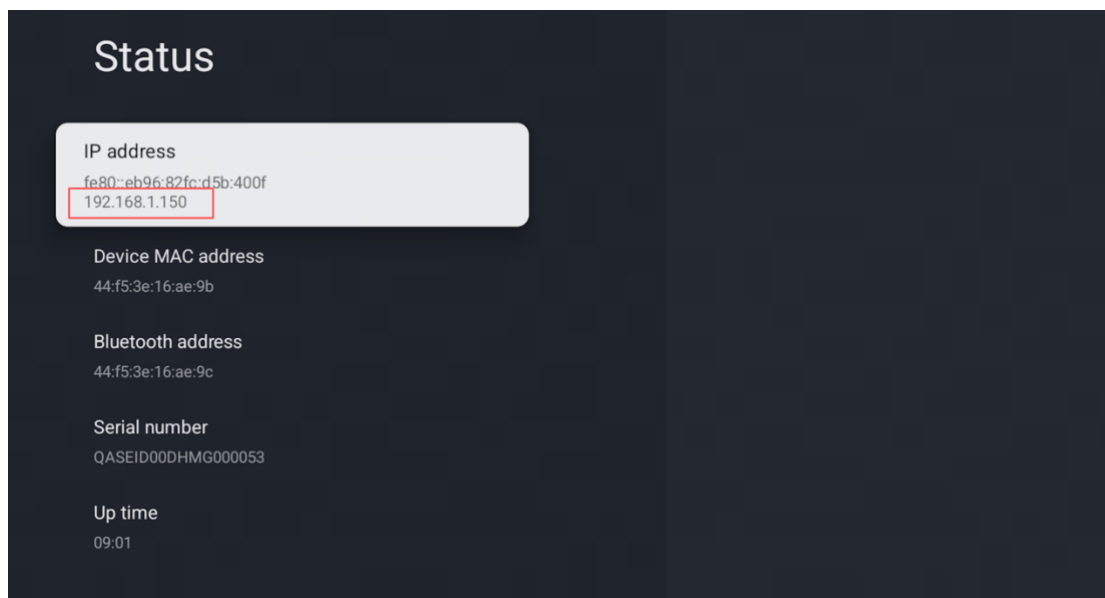
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Method 2: Network ADB Connection (via USB to TCP/IP)

Access device data through a direct USB connection between the Google TV device and a computer using Android Debug Bridge (ADB).

1. **Ensure STB device and PC are on the same network** (Important!)
2. **First connect via USB** (follow steps 1-4 from Method 1 above)
3. **Open ADB TCP/IP listening port on PC:** `adb tcpip 5555`
4. **Get STB device's IP address:**
 1. On STB device: Settings → System → About → Status→IP address
 2. Note the IP address shown



5. **Connect to device via network:** `adb connect <ip>:5555`
 1. Example: `adb connect 192.168.1.100:5555`
6. **Disconnect USB cable** (optional, can now use wireless connection)
7. **Reproduce the issue on the STB device**
8. **Capture logs on PC:** `adb bugreport .`
9. **After use, disconnect:** `adb disconnect s<ip>:5555`



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Common Issues

1. **Q1:** `adb devices` show no device
 1. **Check:** USB cable, reconnect, confirm USB debugging enabled
2. **Q2:** Network ADB connection fails
 1. **Check:** Same network, firewall settings, reacquire IP and port
3. **Q3:** `bugreport` command has no response
 1. **Try:** Check ADB version, confirm storage space, restart ADB: `adb kill-server && adb start-server`
4. **Q4:** "Allow USB debugging" dialog doesn't appear
 1. **Solution:** Reconnect USB, restart STB, check Developer Options is enabled

Remarks

- **Timing:** Capture logs immediately when issue occurs. System logs are circular and get overwritten.
- **Sequence:** For USB connection: Connect cable → Start STB → Enable Developer Options. **This order matters.**
- **Network ADB:** Must first connect via USB, then `adb tcpip 5555` to switch to wireless mode.
- **Authorization:** First-time connection requires clicking "Allow" on STB screen with remote.
- **Storage:** Bugreport files can be large (100-500 MB). Ensure device has space.
- **Security:** Disable USB debugging after debugging sessions.
- **Commands:** Execute `adb` commands from platform-tools directory or with PATH configured.
- **Android TV:** Settings paths may differ from regular Android phones. Use "Device Preferences" menu.

This document is intended as a general reference; your specific case may require customized support. For any questions regarding the information provided in this manual or the application of the EU Data Act to your device, please contact us at

eu-data-act@seirobotics.net.

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