

# [Application Note] Tableaux

Applicable for 25BDL4150I, 13BDL4150I, 25BDL4050I



Version	Date of Changes	Change Summary
1.2	June 2024	Added SICP enabling step

## Notice

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Visit the support website at <https://www.pfds.com/downloads/products> for:

- Leaflet and product documentation
- Download a printable PDF version of the user manual
- Contact details of the helpdesk
- Download the last available software

Our Technical Support team is available at [www.philips.com/pds/support](http://www.philips.com/pds/support) for questions related to specifications, installation or configuration of Philips displays.

For more information about Wave, please visit <https://www.pfds.com/innovations/wave>

## Important

This document will guide you on how to install Wave on Tableaux devices. By installing Wave you agree to the terms of use and privacy policy, which can be found on:

- <https://wave.pfds.com/legal/terms-of-use>
- <https://wave.pfds.com/legal/privacy-policy>

## How to install Wave agent on Tableau

# Download ADB

Download ADB from here

<https://developer.android.com/tools/releases/platform-tools>

The screenshot shows the Android Developers website. The top navigation bar includes 'Developers', 'Essentials', 'Design & Plan', 'Develop', and 'More'. A search bar and a language selector (English) are also present. The main content area is titled 'Downloads' and contains the following text:

If you're an Android developer, you should get the latest SDK Platform-Tools from Android Studio's [SDK Manager](#) or from the [sdkmanager](#) command-line tool. This ensures the tools are saved to the right place with the rest of your Android SDK tools and easily updated.

But if you want just these command-line tools, use the following links:

- [Download SDK Platform-Tools for Windows](#) ←
- [Download SDK Platform-Tools for Mac](#)
- [Download SDK Platform-Tools for Linux](#)

Although these links do not change, they always point to the most recent version of the tools.

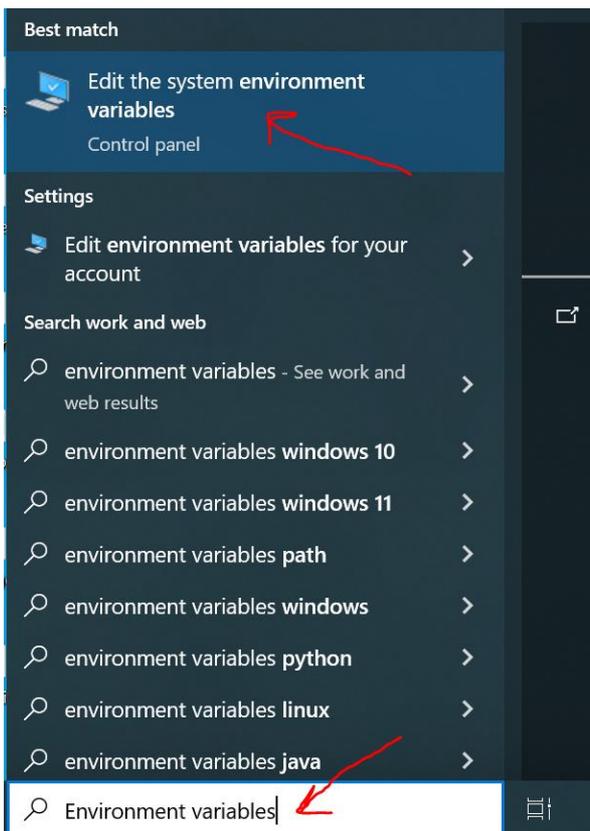
On the right side, there is a 'On this page' sidebar with links for 'Downloads' and 'Revisions'. On the left side, there is a 'Filter' box and a 'What's new in SDK Tools' section with a link to 'SDK platform tools release notes'.

## Extraction

Extract the files to any destination, then navigate to the location where you extracted the file, then click on folder's address bar at the top and copy the full path of the folder.

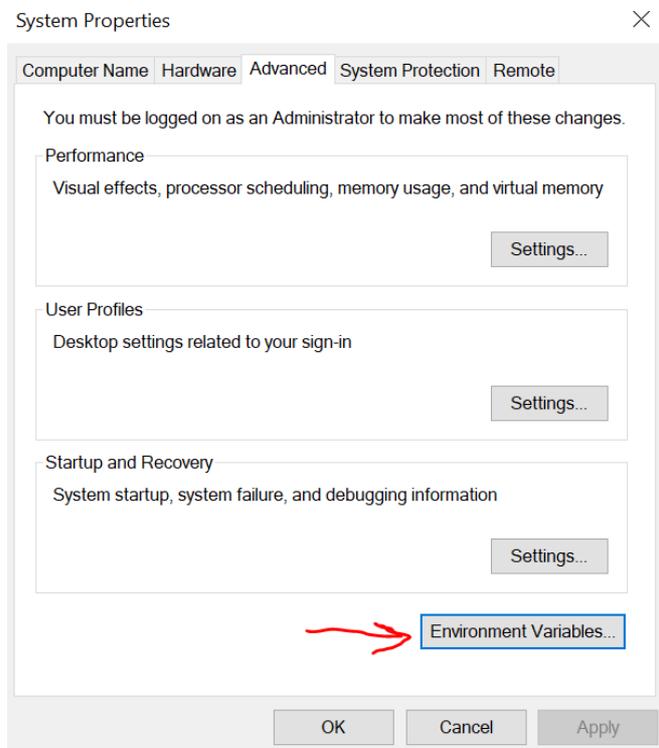
The screenshot shows a Windows File Explorer window. The address bar at the top displays the path: `C:\Users\... \Desktop\Demo\ADB\platform-tools`. A red arrow points to the address bar. The main area shows a list of files and folders with columns for Name, Date modified, Type, and Size.

Name	Date modified	Type	Size
adb.exe	20/03/2024 16:42	Application	5.720 KB
AdbWinApi.dll	20/03/2024 16:42	Application extension	106 KB
AdbWinUsbApi.dll	20/03/2024 16:42	Application extension	72 KB
etc1tool.exe	20/03/2024 16:42	Application	429 KB
fastboot.exe	20/03/2024 16:42	Application	1.765 KB
hprof-conv.exe	20/03/2024 16:42	Application	54 KB
libwinpthread-1.dll	20/03/2024 16:42	Application extension	237 KB
make_f2fs.exe	20/03/2024 16:42	Application	467 KB
make_f2fs_casefold.exe	20/03/2024 16:42	Application	467 KB
mke2fs.conf	20/03/2024 16:42	CONF File	2 KB
mke2fs.exe	20/03/2024 16:42	Application	737 KB
NOTICE.txt	20/03/2024 16:42	Text Document	1.085 KB
source.properties	20/03/2024 16:42	PROPERTIES File	1 KB
sqlite3.exe	20/03/2024 16:42	Application	2.772 KB

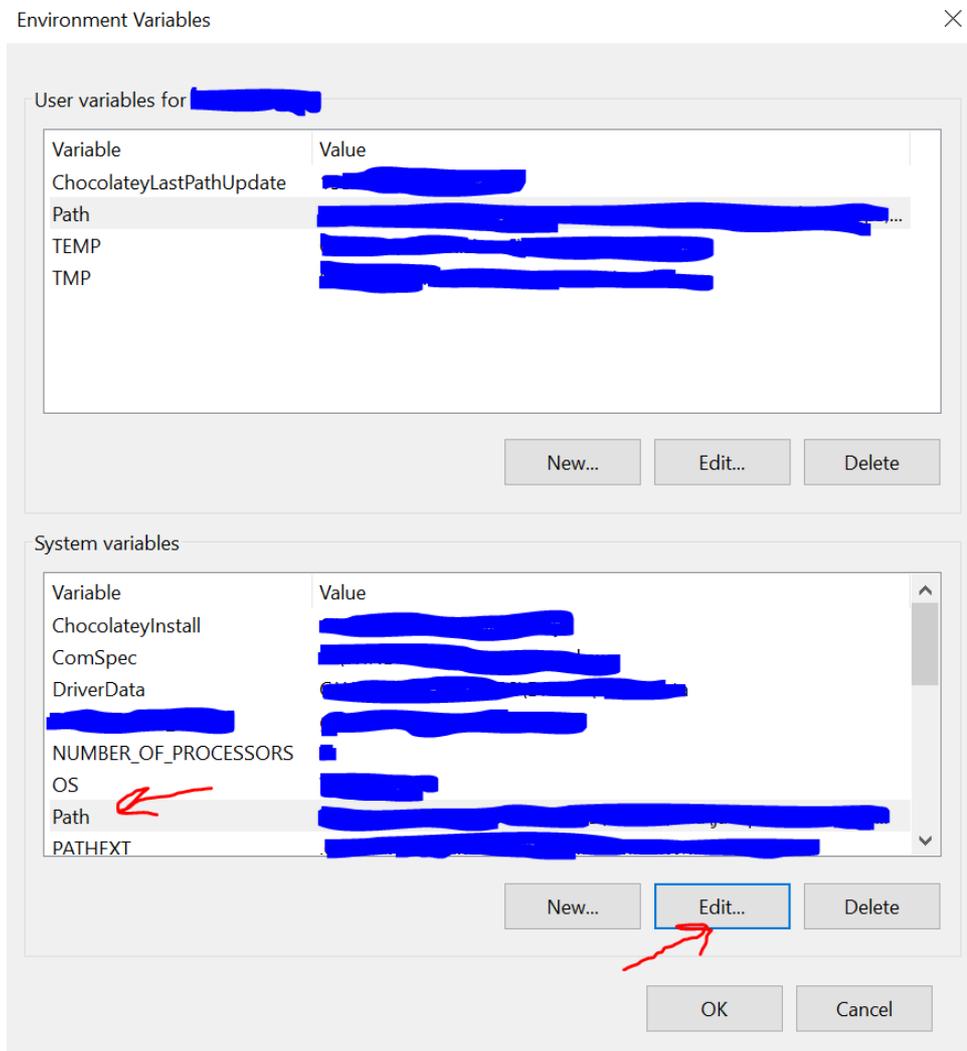


## Environment variables

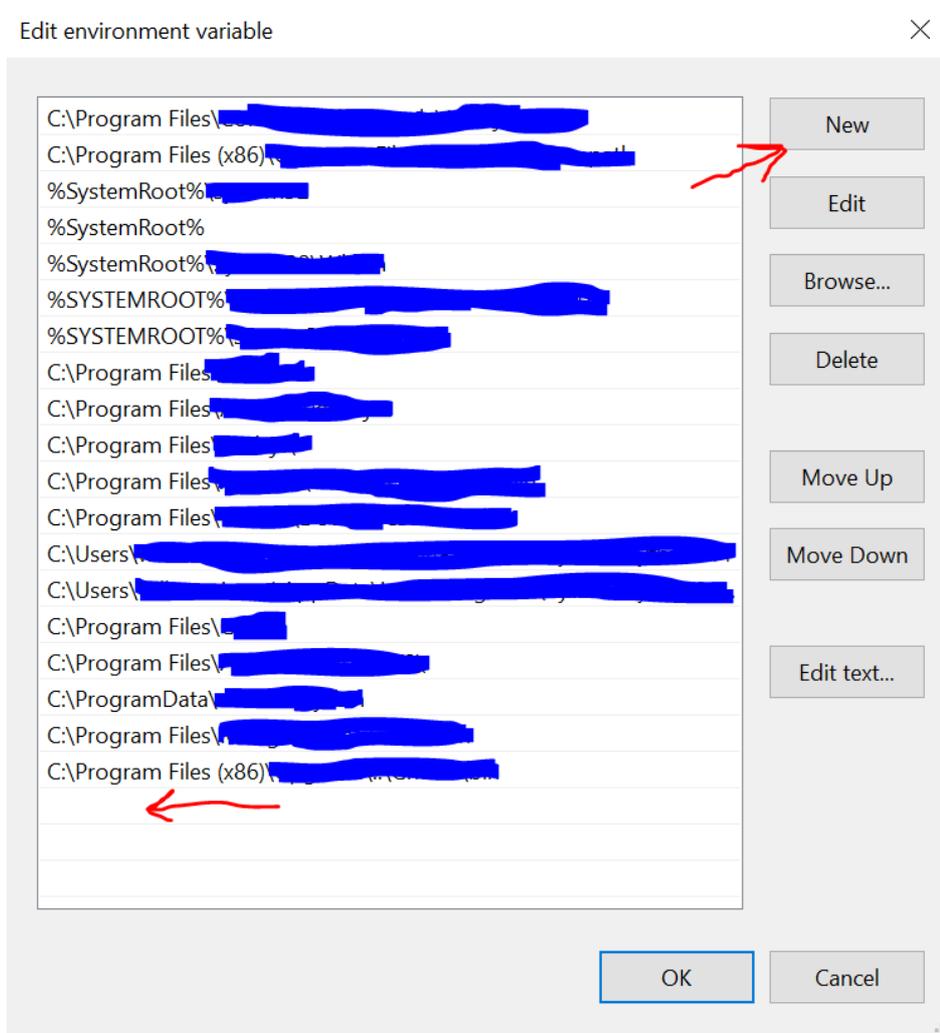
In Windows search bar, type “Environment variables” and select “Edit system environment variables”, then click on “Environment variables” button in the “System Properties” window that appears.



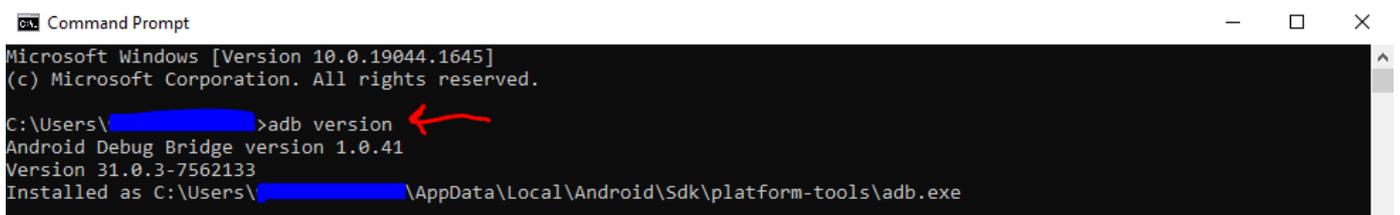
In the “Environment Variables” window, under “System variables” section, select the “Path” variable and click “Edit”.



In the “Edit environment variable” window that appears, click “New” and paste the path that you copied in the extraction step, then click “OK” on every window to close them.



Open a new Command Prompt and verify that ADB has been installed successfully by typing the command “adb version”. The output should be something like this



# SCRCPY

Download SCRCPY from here (scroll down in the website to find the button)

<https://github.com/Genymobile/scrcpy>

Unzip the file, then add its path to the system environment variables just like you did with ADB

README Apache-2.0 license

## Prerequisites

The Android device requires at least API 21 (Android 5.0).

[Audio forwarding](#) is supported for API  $\geq$  30 (Android 11+).

Make sure you [enabled USB debugging](#) on your device(s).

On some devices, you also need to enable [an additional option](#) `USB debugging (Security Settings)` (this is an item different from `USB debugging`) to control it using a keyboard and mouse. Rebooting the device is necessary once this option is set.

Note that USB debugging is not required to run scrcpy in [OTG mode](#).

## Get the app

- [Linux](#)
- [Windows](#) 
- [macOS](#)

## Usage examples

Preview | Code | Blame | 96 lines (66 loc) · 2.7 KB | Raw | Copy | Download | Menu

## On Windows

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### Install

Download the [latest release](#):

- [scrcpy-win64-v2.4.zip](#) (64-bit) ←
- [scrcpy-win32-v2.4.zip](#) (32-bit)

SHA-256: 9dc56f21bfa455352ec0c58b40feaf2fb02d67372910a4235e298ece286ff3a9

SHA-256: cf92acc45eef37c6ee2db819f92e420ced3bc50f1348dd57f7d6ca1fc80f6116

and extract it.

Alternatively, you could install it from packages manager, like [Winget](#):

## Connecting Tableaux



Connect the Tableaux to your computer with a USB cable (USB type A to micro USB type B) as the one shown in picture

In the Command Prompt, type the command “*adb devices*”. You should be able to see your Tableaux device listed (for example the serial number).

```
ca. Command Prompt
Microsoft Windows [Version 10.0.19044.1645]
(c) Microsoft Corporation. All rights reserved.

C:\Users\>adb devices
List of devices attached
AUEA2321000002 device
```

In the Command Prompt, type “*scrcpy*” which will activate the screen mirroring, and you should be able to see the Android UI of the Tableaux and interact with it. (Note: if your computer is connected to more than one Android device, and you see more than one device under the list in the previous step, then you need to specify the device via its name as shown in the list (usually serial number) in the command “*scrcpy -s <device-name>*”)

```
ca. Command Prompt - scrcpy
Microsoft Windows [Version 10.0.19044.1645]
(c) Microsoft Corporation. All rights reserved.

C:\Users\>scrcpy
scrcpy 1.22 <https://github.com/Genymobile/scrcpy>
C:\Users\Desktop\scrcpy\scrcpy-server: 1 file pushed, 0 skipped. 1.5 MB/s (40955 bytes in 0.026s)
[server] INFO: Device: rockchip 25BDL4150I (Android 11)
INFO: Renderer: direct3d
INFO: Initial texture: 1080x1920
```

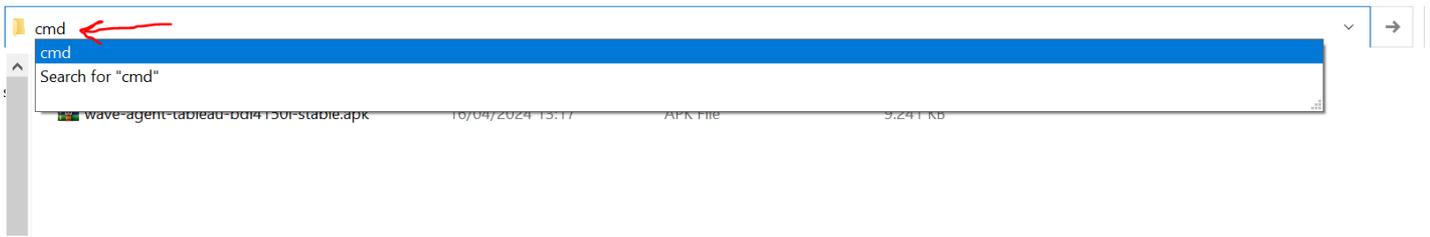


## Installing Wave

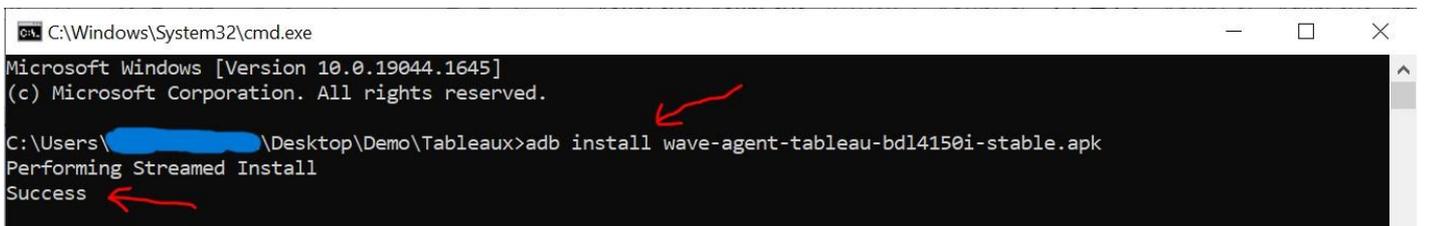
Navigate to the folder where the Wave agent APK is located, then click on the folder's address bar at the top and type "cmd" and hit "Enter". This should open a Command Prompt in that location's directory. You can download the latest Wave agent APK for Tableaux from this link

<https://cdn.wave.ppds.com/apks/wave-agent/stable/wave-agent-tableau-bdl4150i-stable.apk> (BDL4150I)

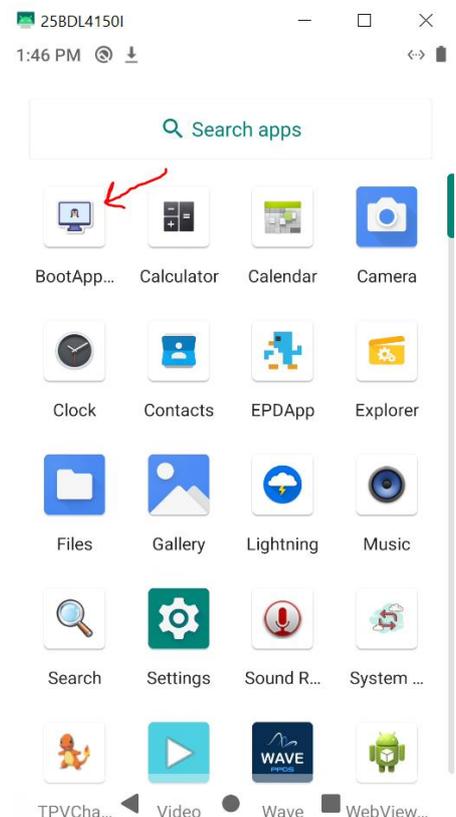
<https://cdn.wave.ppds.com/apks/wave-agent/stable/wave-agent-tableau-bdl4050i-stable.apk> (BDL4050I)

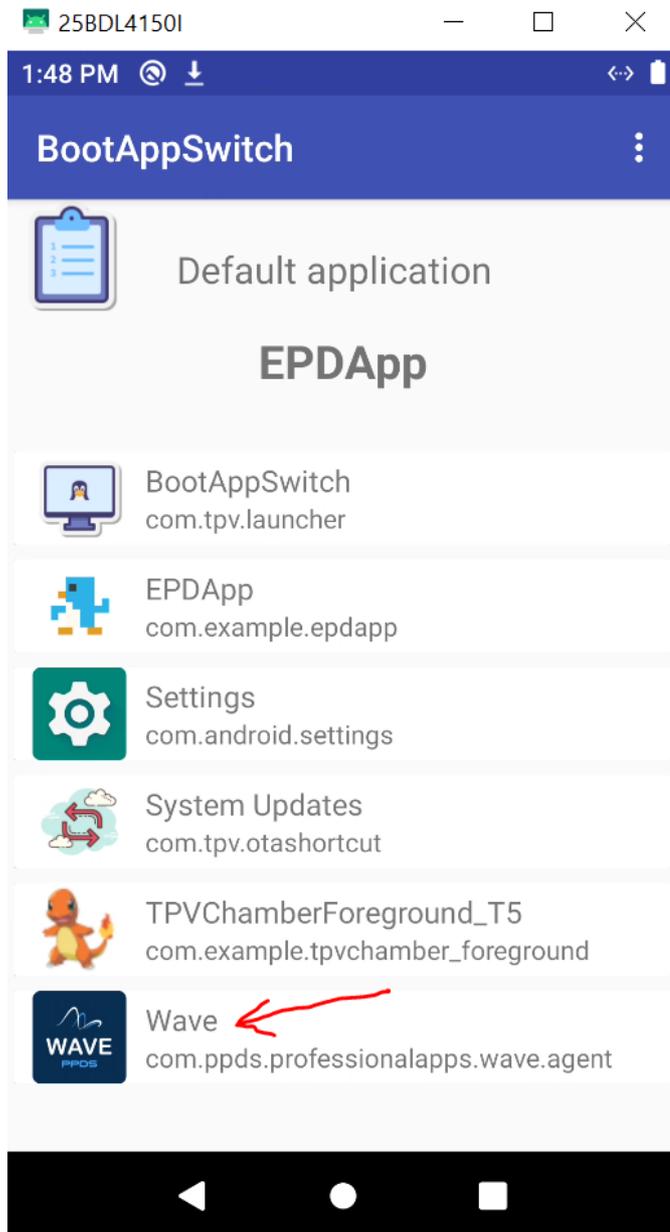


In the new Command Prompt that opens in the previous step, type the following command to install the Wave agent APK on the Tableau device *“adb install wave-agent-tableau-bdl4150i-stable.apk”*. (Note: if your computer is connected to more than one Android device, you need to specify the device in the command *“adb -s <device-name> install wave-agent-tableau-bdl4150i-stable.apk”*)



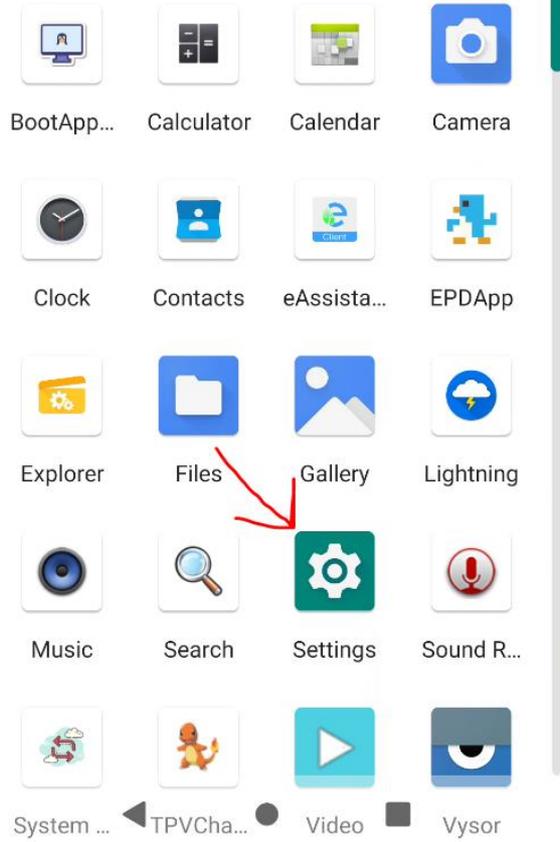
Within the mirrored Android UI of Tableau, swipe up to open the apps menu, then find and select the Boot App Switch application to open it. Once it is open, Wave app should be listed there, select the Wave app to set it as a default application. This will avoid the conflict of having another default app running besides Wave.





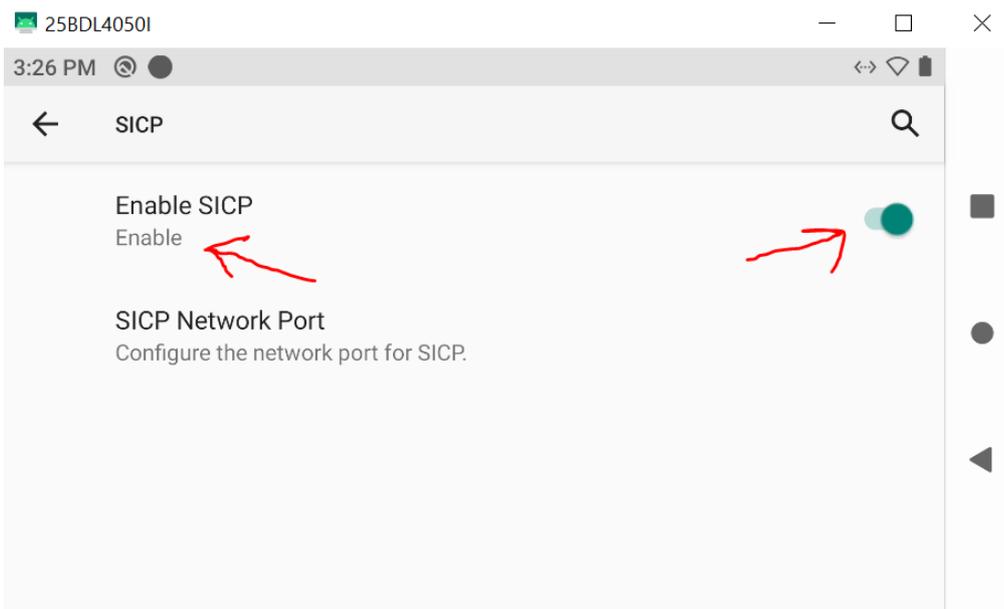
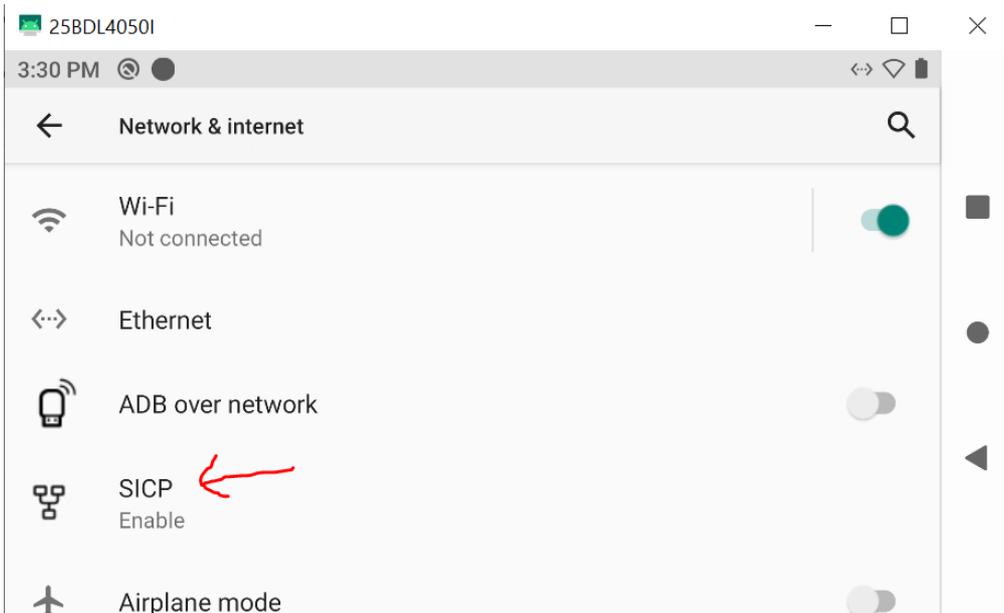
Go back to the apps menu, and open the Settings app, then navigate to Network & Internet, then click on SICP, and make sure that SICP is enabled. Refer to the below screenshots for guidance. (The SICP setting might not be available on some old FW. In that case, you can skip this step)

Search apps

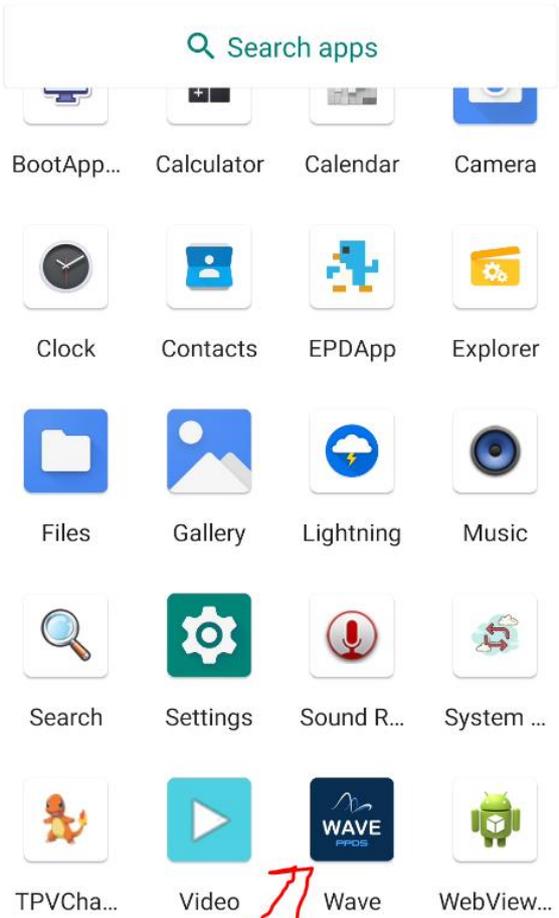


Search settings

-  **Network & internet**  
Wi-Fi, data usage, and hotspot
-  **Connected devices**  
Bluetooth
-  **Apps & notifications**  
Recent apps, default apps
-  **Battery**



Go back to the apps menu, and open the Wave app. You should be able to see the claiming code shortly after. You can use the code to claim your Tableaux in the Wave portal as you claim any other display. (Note: if you see an error on the Wave app, please make sure that the Tableaux is connected to the internet via Ethernet or WiFi).



25BDL4150I 2:01 PM

# To claim this display, visit <https://wave.ppds.com>

from a web browser on another device, and enter the code below.

1	7	7	2	0	1
---	---	---	---	---	---

**Serial Number:** AUEA2321000002  
**CTN:** 25BDL4150I/00

com.ppds.professionalapps.wave.agent  
1.161.2+3eabda6a (801627) stable

The screenshot shows a dark-themed interface for claiming a display. It features a URL, a set of six input fields containing the code "177201", and a red arrow pointing to the "2" in the code. Below the code are the serial number and CTN. At the bottom, there is a small version of the Wave PPDS logo.