Use Logcat Command-Line Tool from Android Debug Bridge (ADB) to Collect Device Log File Over Wi-Fi

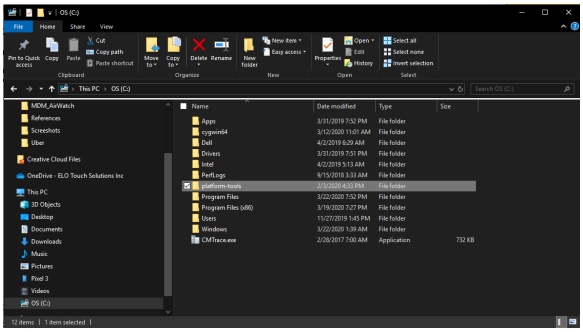
ADB, Android Debug Bridge, is a command-line utility included with Google's Android SDK. ADB can be used to control your device (over IP) from any computer to copy files back and forth, install and uninstall apps, run shell commands, debugging, and much more.

Logcat command-line tool dumps a log of system messages, including stack traces when the device throws an error and messages that you have written from your app with the Log class.

Setting Up ABD

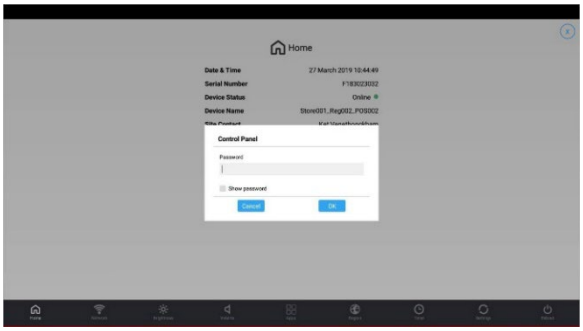
1. Download the basic Android command line tools below from this website

2. Unzip the downloaded file and save it in C Drive (C:)

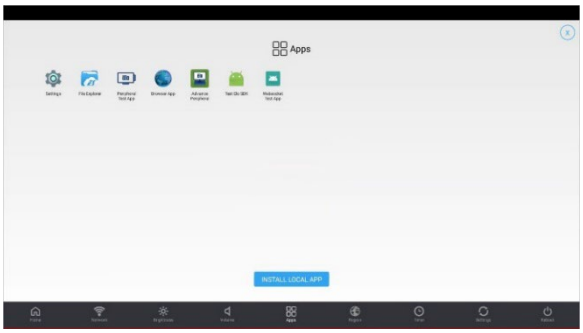


Enabling USB Debugging on the Elo Device

1. On the device, access the Control Panel button by pressing <Home> and <Power> buttons at the same time. If necessary, enter the password
   a. Default password is "1elo" unless you changed it in EloView



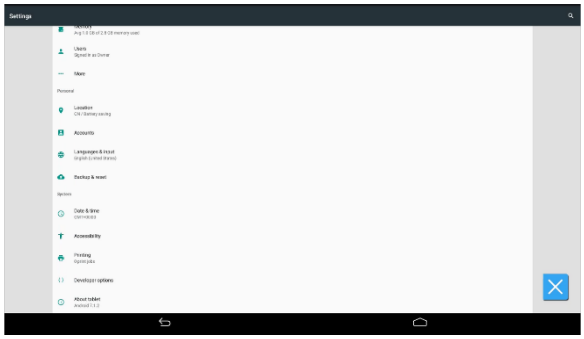
2. In the "Apps" area, click Settings



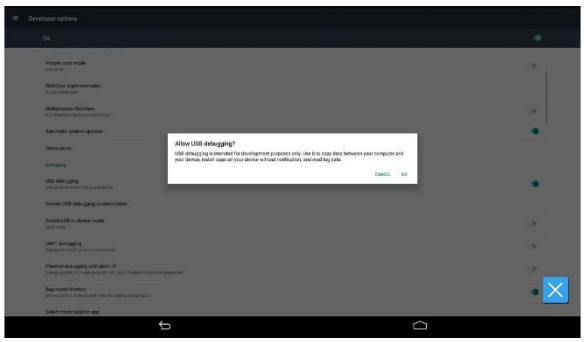
3. Select the About Tablet

4. Tap on the Build Number setting continuously until you get a “You are now a developer” message
5. Click the Back button

6. Select the Developer Options setting



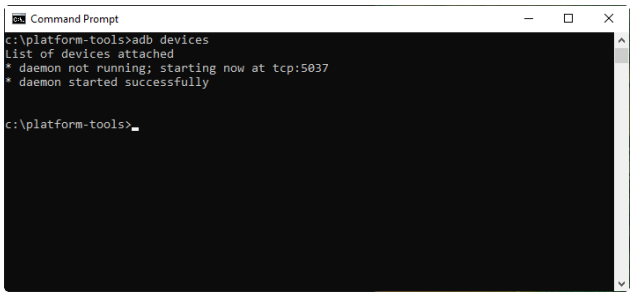
7. Enable the “USB Debugging” setting. When prompted, click OK to confirm



Using ADB to collect logs from Elo device

1. Make sure they are both on the same wireless network

2. On the Windows Terminal, open Command Prompt Enter
   1) cd\ to change directory to C:\
   2) cd platform-tools to enter folder



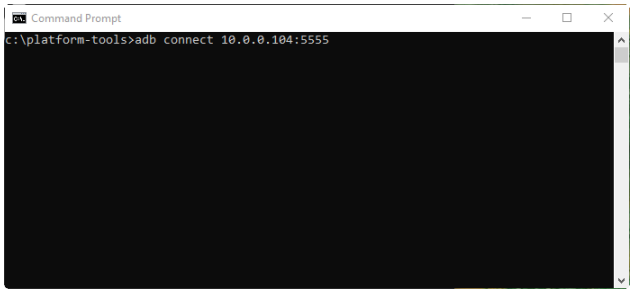
3. Issue the following adb command. This starts an adb client and, if necessary, starts the adb server process (binding to local TCP port 5037)

   adb devices

4. From Windows Terminal, issue the following adb command. This will attempt to communicate with the Elo device using its IP address

   adb connect <elo device IP>:5555

   Ex. adb connect 192.168.25.233:5555

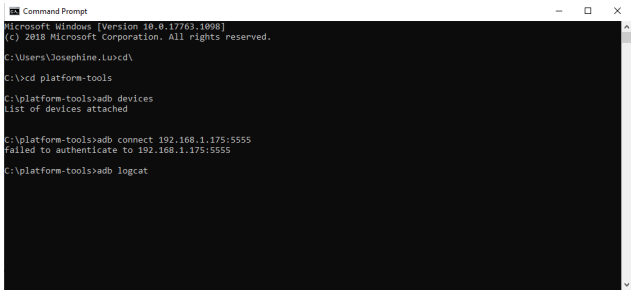


5. On the Elo device, check the “Allows allow from this computer” setting and click OK to give permission for the debug computer to connect

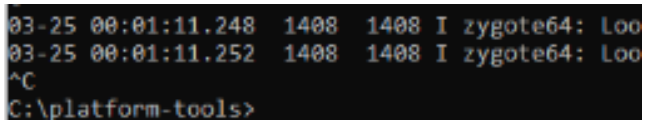
6. Issue adb command to run logs

   adb logcat

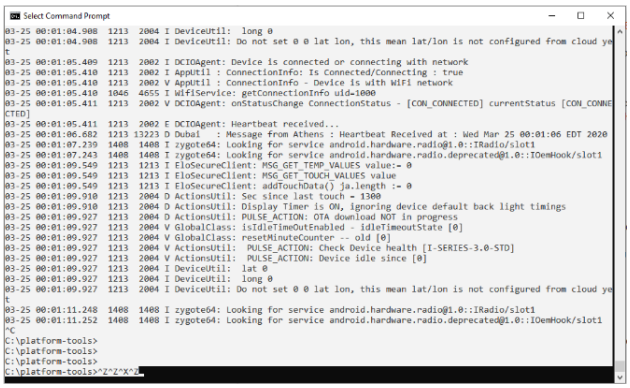
   Click to view other available command line options



7. Once the date and time on the log file match the current date and time, press Ctrl+C (^C) to stop



8. To manually copy then save the logs into a file, press Ctrl+A then Ctrl+C to copy the logs
9. Open Notepad. Press Ctrl+V to paste the log into Notepad then save the file



10. For more information about the Android Debug Bridge (adb), check out this website

Options

The following table describes the command line options of logcat.

When using with Windows-based computer

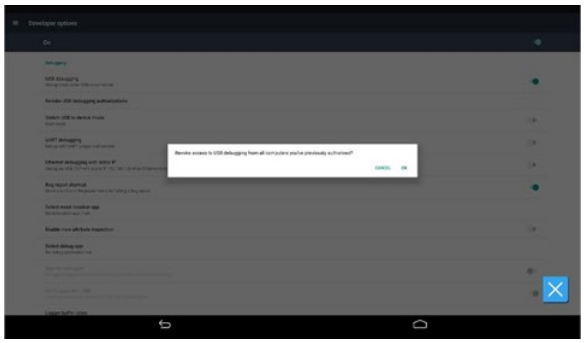
Description	Option
To run and save logs into a file	adb logcat > <filename> Ex. adb logcat > logcat1.txt, or, adb logcat > C:\LogFiles\logcat1.txt
To run logs, save into a file and stop when all output is flushed	adb logcat –d > <filename>
To sift the logs using tagname	adb logcat -s "tagname1","tagname2","tagname3"
To clear the log buffer	adb logcat -c

When using with MacOS-based computer

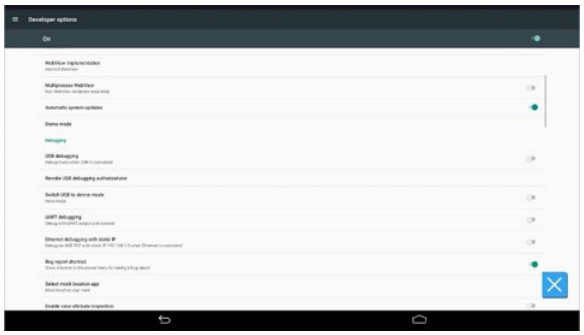
Description	Option
To run and save logs into a file	adb logcat > <filename> Ex. adb logcat > logcat1.txt, or, adb logcat > ~/Desktop/log1.txt
To run, view and save logs into a file	adb logcat | tee <filename> Ex. adb logcat | tee ~/Desktop/log2.txt
To sift the logs using tagname	adb logcat | grep -iE "(tagname1| tagname2| tagname3)"
To clear the log buffer	adb logcat -c

Troubleshoot

1. From the Device Control Panel, go to the Apps > Android Settings > the Developer Options area
2. Click on the Revoke USB debugging authorizations setting. When prompted, click OK to clear the list of authorized computers

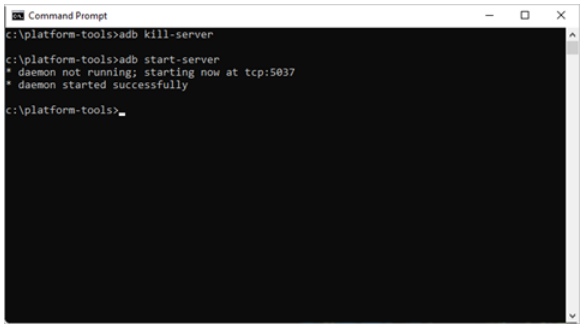


3. Disable the “USB Debugging” setting

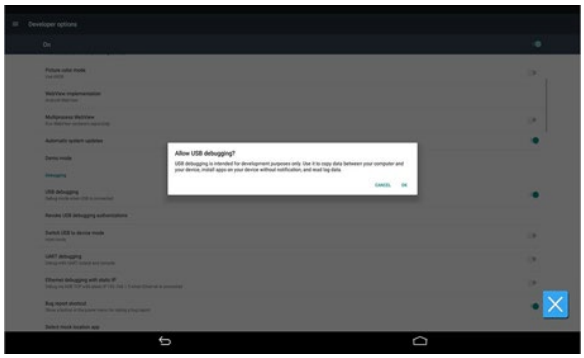


4. From Windows Terminal, enter the following commands (in sequence)

   adb kill-server adb start-server



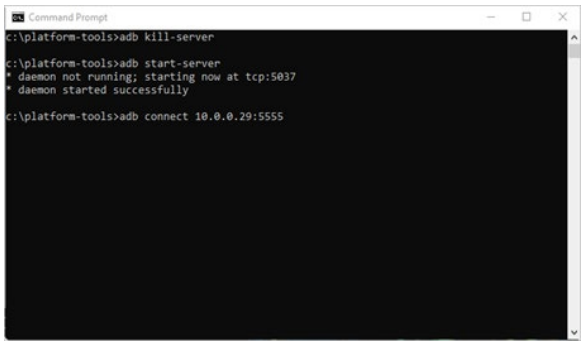
5. Enable the “USB Debugging” setting. When prompted, click OK to confirm



6. From Windows Terminal, enter the following commands (in sequence)

   adb connect <elo device IP>:5555

   Ex. adb connect 192.168.25.233:1555

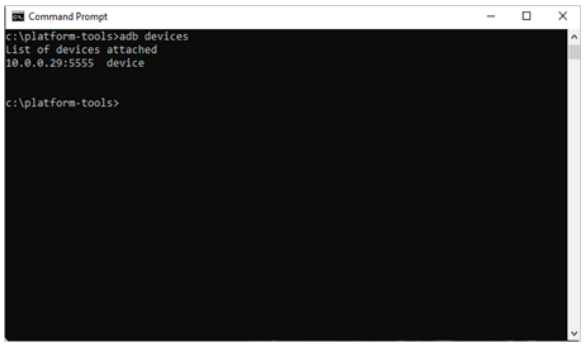


7. On the Elo device, check the “Allows allow from this computer” setting and click OK to give permission for the debug computer to connect

8. Issue the following adb command to see all connected devices and their status:

   adb devices

9. If the Elo device is listed with a “device” state, it is now ready to accept commands from the developer machine



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