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 <u>website</u>
- 2. Unzip the downloaded file and save it in C Drive (C:)



Enabling USB Debugging on the Elo Device

- 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





CANCEL OK

Allow USB debugging? The computer's RSA key fingerprint is: 6C:59:BD:AE:27:BE:TB:3F:04:52:D0:2C:35:AD:50:54 Always allow from this computer

6. Issue adb command to run logs

adb logcat

<u>Click</u> 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



:\platform-tools>

- 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

Select Command Prom	pt				-		×	
03-25 00:01:04.908	1213	2004	I	DeviceUtil: long 0				~
03-25 00:01:04.908	1213	2084	I	DeviceUtil: Do not set 0 0 lat lon, this mean lat/lon is not configured	from	cloud	ye	
t								
03-25 00:01:05.409	1213	2002	I	DCIOAgent: Device is connected or connecting with network			- I.	
03-25 00:01:05.410	1213	2002	I	AppUtil : ConnectionInfo: Is Connected/Connecting : true			- I.	
03-25 00:01:05.410	1213	2002	٧	AppUtil : ConnectionInfo - Device is with WiFi network			- I.	
03-25 00:01:05.410	1046	4655	Ι	WifiService: getConnectionInfo uid=1000			- I.	
03-25 00:01:05.411	1213	2002	۷	DCIOAgent: onStatusChange ConnectionStatus - [CON_CONNECTED] currentStat	us [0	:on_co	INE	
CTED]							- I.	
03-25 00:01:05.411	1213	2002	Е	DCIOAgent: Heartbeat received			- I.	
03-25 00:01:06.682	1213	13223	D	Dubai : Message from Athens : Heartbeat Received at : Wed Mar 25 00:01	:06 E	DT 20	20	
03-25 00:01:07.239	1468	1408	Ι	zygote64: Looking for service android.hardware.radio@1.0::IRadio/slot1			- I.	
03-25 00:01:07.243	1408	1408	I	zygote64: Looking for service android.hardware.radio.deprecated@1.0::IOe	-mHool	/slot	1	
03-25 00:01:09.549	1213	1213	Ι	EloSecureClient: MSG_GET_TEMP_VALUES value:= 0			- I.	
03-25 00:01:09.549	1213	1213	Ι	EloSecureClient: MSG_GET_TOUCH_VALUES value			- I.	
03-25 00:01:09.549	1213	1213	Ι	EloSecureClient: addTouchData() ja.length := 0			- I.	
03-25 00:01:09.910	1213	2004	D	ActionsUtil: Sec since last touch = 1300			- 1	
03-25 00:01:09.910	1213	2084	D	ActionsUtil: Display Timer is ON, ignoring device default back light time	aings		- I.	
03-25 00:01:09.927	1213	2004	D	ActionsUtil: PULSE_ACTION: OTA download NOT in progress			- I.	
03-25 00:01:09.927	1213	2084	۷	GlobalClass: isIdleTimeOutEnabled - idleTimeoutState [0]			- 1	
03-25 00:01:09.927	1213	2084	v	GlobalClass: resetMinuteCounter old [0]			- I.	
03-25 00:01:09.927	1213	2084	۷	ActionsUtil: PULSE_ACTION: Check Device health [I-SERIES-3.0-STD]			- 1	
03-25 00:01:09.927	1213	2004	v	ActionsUtil: PULSE_ACTION: Device idle since [0]			- I.	
03-25 00:01:09.927	1213	2004	I	DeviceUtil: lat 0			- 1	
03-25 00:01:09.927	1213	2084	Ξ	DeviceUtil: long 0			- I.	
03-25 00:01:09.927	1213	2004	Ι	DeviceUtil: Do not set 0 0 lat lon, this mean lat/lon is not configured	from	cloud	ye	
t							- 1	
03-25 00:01:11.248	1408	1408	Ξ	zygote64: Looking for service android.hardware.radio@1.0::IRadio/slot1				
03-25 00:01:11.252	1408	1408	I	zygote64: Looking for service android.hardware.radio.deprecated@1.0::IOe	-mHool	c/slot	1	
^C							- 1	
C:\platform-tools>							- 1	
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10. For more information about the Android Debug Bridge (adb), check out this <u>website</u>

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></filename>
	Ex. adb logcat > logcat1.txt, or, adb logcat > C:\LogFiles\logcat1.txt
To run logs, save into a file and stop when	adb logcat –d > <filename></filename>
all output is flushed	
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></filename>
	Ex. adh logcat > logcat1 tyt. or
	adb logcat > ~/Desktop/log1.txt
To run, view and save logs into a file	adb logcat tee <filename></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



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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
- 10. For more information about the Android Debug Bridge (adb), check out this <u>website</u>

