

## ADB Server

Restart ADB server

```
adb kill-server  
adb start-server
```

## Device Rebooting

Reboot the device

```
adb reboot
```

Reboot the device into recovery mode (for upgrading or downgrading devices)

```
adb reboot recovery
```

## Device Management

```
adb shell input keyevent <key_code>
```

Where is a number or text, see below:

0 -> "KEYCODE\_UNKNOWN"  
1 -> "KEYCODE\_MENU"  
2 -> "KEYCODE\_SOFT\_RIGHT"  
3 -> "KEYCODE\_HOME"  
4 -> "KEYCODE\_BACK"  
5 -> "KEYCODE\_CALL"  
6 -> "KEYCODE\_ENDCALL"  
7 -> "KEYCODE\_0"  
8 -> "KEYCODE\_1"  
9 -> "KEYCODE\_2"  
10 -> "KEYCODE\_3"  
11 -> "KEYCODE\_4"  
12 -> "KEYCODE\_5"  
13 -> "KEYCODE\_6"  
14 -> "KEYCODE\_7"

15 -> "KEYCODE\_8"  
16 -> "KEYCODE\_9"  
17 -> "KEYCODE\_STAR"  
18 -> "KEYCODE\_POUND"  
19 -> "KEYCODE\_DPAD\_UP"  
20 -> "KEYCODE\_DPAD\_DOWN"  
21 -> "KEYCODE\_DPAD\_LEFT"  
22 -> "KEYCODE\_DPAD\_RIGHT"  
23 -> "KEYCODE\_DPAD\_CENTER"  
24 -> "KEYCODE\_VOLUME\_UP"  
25 -> "KEYCODE\_VOLUME\_DOWN"  
26 -> "KEYCODE\_POWER"  
27 -> "KEYCODE\_CAMERA"  
28 -> "KEYCODE\_CLEAR"  
29 -> "KEYCODE\_A"  
30 -> "KEYCODE\_B"  
31 -> "KEYCODE\_C"  
32 -> "KEYCODE\_D"  
33 -> "KEYCODE\_E"  
34 -> "KEYCODE\_F"  
35 -> "KEYCODE\_G"  
36 -> "KEYCODE\_H"  
37 -> "KEYCODE\_I"  
38 -> "KEYCODE\_J"  
39 -> "KEYCODE\_K"  
40 -> "KEYCODE\_L"  
41 -> "KEYCODE\_M"  
42 -> "KEYCODE\_N"  
43 -> "KEYCODE\_O"  
44 -> "KEYCODE\_P"  
45 -> "KEYCODE\_Q"  
46 -> "KEYCODE\_R"  
47 -> "KEYCODE\_S"  
48 -> "KEYCODE\_T"  
49 -> "KEYCODE\_U"  
50 -> "KEYCODE\_V"  
51 -> "KEYCODE\_W"  
52 -> "KEYCODE\_X"  
53 -> "KEYCODE\_Y"  
54 -> "KEYCODE\_Z"  
55 -> "KEYCODE\_COMMA"  
56 -> "KEYCODE\_PERIOD"

57 -> "KEYCODE\_ALT\_LEFT"  
58 -> "KEYCODE\_ALT\_RIGHT"  
59 -> "KEYCODE\_SHIFT\_LEFT"  
60 -> "KEYCODE\_SHIFT\_RIGHT"  
61 -> "KEYCODE\_TAB"  
62 -> "KEYCODE\_SPACE"  
63 -> "KEYCODE\_SYM"  
64 -> "KEYCODE\_EXPLORER"  
65 -> "KEYCODE\_ENVELOPE"  
66 -> "KEYCODE\_ENTER"  
67 -> "KEYCODE\_DEL"  
68 -> "KEYCODE\_GRAVE"  
69 -> "KEYCODE\_MINUS"  
70 -> "KEYCODE\_EQUALS"  
71 -> "KEYCODE\_LEFT\_BRACKET"  
72 -> "KEYCODE\_RIGHT\_BRACKET"  
73 -> "KEYCODE\_BACKSLASH"  
74 -> "KEYCODE\_SEMICOLON"  
75 -> "KEYCODE\_APOSTROPHE"  
76 -> "KEYCODE\_SLASH"  
77 -> "KEYCODE\_AT"  
78 -> "KEYCODE\_NUM"  
79 -> "KEYCODE\_HEADSETHOOK"  
80 -> "KEYCODE\_FOCUS"  
81 -> "KEYCODE\_PLUS" 82 -> "KEYCODE\_MENU"  
83 -> "KEYCODE\_NOTIFICATION"  
84 -> "KEYCODE\_SEARCH"  
85 -> "TAG\_LAST\_KEYCODE"

Wake up the device

```
adb shell input keyevent KEYCODE_WAKEUP
```

Swipe (unlock screen)

```
adb shell input keyevent 82
```

Home button (KEYCODE\_HOME)

```
adb shell input keyevent 3
```

Send a string of characters

Insert the text into a view with a focus (if it supports text input)

```
adb shell input text 'Paste text on Android device'
```

Simulate a physical action

Get Xpoint and Ypoint by enabling pointer location in the Developer Options - Input - Pointer location.

#### TAP

adb shell input tap Xpoint Ypoint

Example - Tap over position (487,428):

```
> adb shell input tap 487 428
```

#### SWIPE

adb shell input swipe Xpoint1 Ypoint1 Xpoint2 Ypoint2 [DURATION\*]

\*DURATION is optional, default=300ms

Example - Swipe from position (356,1257) to (356,100):

```
> adb shell input swipe 356 1257 356 100
```

## Setting Device Configuration

Open Settings

```
adb shell am start -a android.settings.SETTINGS
```

Get/Put the device\_name

```
adb shell settings get global device_name  
db shell settings put global device_name "Device_XXX"
```

## Enable/Disable Stay awake

```
adb shell settings put global stay_on_while_plugged_in 3 (enable)  
adb shell settings put global stay_on_while_plugged_in 0 (disable)
```

## Setting the device brightness

```
adb shell settings put system screen_brightness 125
```

## Setting the sound levels

```
adb shell settings put system volume_music Speaker 0  
adb shell settings put system volume_notification Speaker 0  
adb shell settings put system volume_ring Speaker 0  
adb shell settings put system volume_system Speaker 0
```

## Setting the screen rotation

```
adb shell settings put system accelerometer_rotation 0
```

accelerometer\_rotation: auto-rotation, 0 disable, 1 enable

```
adb shell settings put system user_rotation 3
```

user\_rotation: actual rotation, clockwise, 0 0°, 1 90°, 2 180°, 3 270°

## Getting/Setting the language

```
adb shell settings get system system_locales  
adb shell settings put system system_locales fr-FR
```

A device reboot is needed

## Allow applications from unknown sources

```
adb shell settings put global install_non_market_apps 1  
adb shell settings put secure install_non_market_apps 1 (Oreo+)
```

## Disable USB Debugging mode

The enable command has no sense. You cannot send ADB commands to the terminal if the Debug mode is disabled

```
adb shell settings put global adb_enabled 0
```

## Configure the default HOME (for MDM)

The “home app” must be installed and active

```
adb shell cmd package set-home-activity  
com.telelogos.mediacontact/com.telelogos.mckiosk.McKioskActivity
```

## Get the current keyboard

```
adb shell settings get secure default_input_method
```

## Get the list of available keyboards

```
adb shell ime list -s
```

## Enable/Disable/Set a keyboard

Each platform has a specific name of the keyboard

```
adb shell ime enable com.android.inputmethod.latin/.LatinIME  
adb shell ime set com.android.inputmethod.latin/.LatinIME  
adb shell ime disable com.android.inputmethod.latin/.LatinIME
```

## Block OS and security updates

```
adb shell settings put system security_update_db 0  
adb shell settings put system SOFTWARE_UPDATE_WIFI_ONLY2 0
```

## Set NTP server

```
adb shell settings put global ntp_server ntp1.ggl.inet
```

NTP server is not present on all platforms

## Enable/Disable WiFi connection

```
adb shell "dummys wifi | grep 'Wi-Fi is'" (get current status)
adb shell "svc wifi enable" (enable)
adb shell "svc wifi disable" (disable)
```

## Open WiFi settings

```
adb shell am start -a android.settings.WIRELESS_SETTINGS
```

## WiFi detailed status

```
adb shell dumsys wifi | grep "mNetworkInfo"
```

If connected to a valid network, it shows “CONNECTED/CONNECTED”. It also shows the name of the connected network.  
If wifi has been enabled but it is yet to connect to a network, it shows “DISCONNECTED/SCANNING”.  
If wifi is disabled, it shows “DISCONNECTED/DISCONNECTED”.

## Enable/Disable Bluetooth connection

```
adb shell settings get global bluetooth_on (get current status)
adb shell settings put global bluetooth_on 1 (enable)
adb shell settings put global bluetooth_on 0 (disable)
```

A device reboot is needed

```
adb shell am start -a android.bluetooth.adapter.action.REQUEST_ENABLE
```

```
adb shell am start -a android.bluetooth.adapter.action.REQUEST_DISABLE
```

It prompts the user to ‘allow’ or ‘deny’

## Enable/Disable NFC connection

```
adb shell dumpsys nfc (get current status)
adb shell svc nfc enable / adb shell service call nfc 7 (enable)
adb shell svc nfc disable / adb shell service call nfc 6 (disable)
```

#### Enable/Disable Google Play Protect

```
adb shell settings get global package_verifier_user_consent (get current status)
adb shell settings put global package_verifier_user_consent 1 (enable)
adb shell settings put global package_verifier_user_consent -1 (disable)
```

## Getting Device Information

#### Get Android version

```
adb shell getprop ro.build.version.release
```

#### Get Build number

```
adb shell getprop ro.build.display.id
```

#### Get Patch number

```
adb shell getprop ro.device.patch.version
```

#### Get BT MAC address

```
adb shell settings get secure bluetooth_address
```

&nbsp;

#### Get NTP server

```
adb shell settings get global ntp_server
```

#### Get IP address

```
adb shell ip addr show wlan0 | grep 'inet ' | cut -d ' ' -f 6 | cut -d / -f 1
```

## File Management

Copy from the local source to the device

```
adb push <local path> <device path>
```

Copy from the device to the local source

```
adb pull <device path> <local path>
```

Delete a file

```
adb shell rm "/sdcard/file.ini"
```

Create/Delete a directory

```
adb shell mkdir "/sdcard/WsmHost/" > NUL  
adb shell rmdir "/sdcard/WsmHost/"
```

See private directory where an app is installed

```
adb shell  
run-as <package_name>
```

<package\_name>: The installed app must be in debug version, not release or logcat or installed from Google Play

Example:

```
> adb shell  
> run-as com.tellnext.emulator
```

## Logcat

Clear logcat

```
adb logcat -c
```

Print log messages to stdout

```
adb logcat <text>:V *:S
```

<text>: BTPairing, TellNext, Calibrate, SpeakerNext, EVAPlayer

Example – Print BTPairing and TellNext messages (Verbose) and hide the rest of the messages (Silent):

```
> adb logcat BTPairing:V TellNext:V *:S
```

Example – Print VoiXtreme Engine messages (Verbose) and hide the rest of the messages (Silent):

```
> adb logcat VoiXtreme:V NUANCE:V *:S
```

Set Logcat buffer size (K or M)

```
adb logcat -G16M  
adb logcat -g
```

Dump log messages to a specified file

```
adb logcat -f <filename>
```

Activate log messages (if logs not visible – property reset after rebooting the device)

```
adb shell setprop log.tag.<MyAppTag> DEBUG
```

Example – Activate logs for SpeakerNext:

```
> adb shell setprop log.tag.SpeakerNext DEBUG
```

## Devices

Bonded devices

Find your Bluetooth service:

```
adb shell "dumpsys -l | grep bluetooth"
```

Get bonded devices:

```
adb shell "dumpsys bluetooth_manager | sed -n '/Bonded devices:/,/^\$/p'"
```

## Apps Management

Install an application

```
adb shell pm install -g "/sdcard/application.apk" --user all
```

List installed packages

```
adb shell pm list packages
```

List installed 3rd-party packages

```
adb shell pm list packages -3
```

Launch an app

Get the corresponding ActivityName:

```
adb shell dumpsys package <packageName> | findstr Activity
```

Launch the app:

```
adb shell am start -n <ActivityName>
```

Example – Launch BT Pairing:

```
> adb shell dumpsys package com.tellnext.bluetooth_pairing | findstr Activity  
> adb shell am start -n com.tellnext.bluetooth_pairing/com.tellnext.StarterActivity
```

## Enable/Disable Accessibility Services for an App

Get Accessibility Service Name:

```
adb shell dumpsys package <packageName>
```

Enable the Service:

```
adb shell settings put secure enabled_accessibility_services <serviceName>
```

Example – Enable BT Pairing Accessibility Service:

```
> adb shell dumpsys package com.tellnext.bluetooth_pairing | findstr Accessibility  
> adb shell settings put secure enabled_accessibility_services  
com.tellnext.bluetooth_pairing/com.tellnext.accessibility_service.BTAccessibilityService
```

This action can also disable other services. So, it's better to use ":" to join services:

```
adb shell settings put secure enabled_accessibility_services  
<serviceName_1>:<serviceName_2>
```

Example – Enable BT Pairing Accessibility Service and EVA Player service:

```
> adb shell settings put secure enabled_accessibility_services  
com.tellnext.bluetooth_pairing/com.tellnext.accessibility_service.BTAccessibilityService:  
com.eva.player/.service.PlayerAccessibilityService
```

Disable accessibility services for one app:

```
adb shell am force-stop <packageName>
```

## Finding the name of the current foreground app

```
adb shell dumpsys window windows | grep mCurrentFocus
```

Kill app

```
adb shell am force-stop <packageName>
```

Example - Kill BT Pairing App:

```
> adb shell am force-stop com.tellnext.bluetooth_pairing
```

Enable/Disable apps notifications

```
adb shell cmd appops set <packageName> POST_NOTIFICATION ignore  
adb shell cmd appops set <packageName> POST_NOTIFICATION allow
```

Example - Disable Hangouts (Google Talk) notifications:

```
> adb shell cmd appops set com.google.android.talk POST_NOTIFICATION ignore
```

Give specific authorization to an app

```
adb shell cmd appops set <packageName> <permission> allow
```

Example:

```
> adb shell cmd appops set com.telelogos.mediacontact WRITE_EXTERNAL_STORAGE allow
```

Give the rights for MDM app (device owner/admin)

*dpm set-active-admin: Sets the given component as active admin for an existing user.*

*dpm set-device-owner: Sets the given component as active admin, and its package as the device owner.*

*dpm set-profile-owner: Sets the given component as active admin and profile owner for an existing user.*

```
adb shell dpm set-active-admin com.telelogos.mediacontact/.McDeviceAdminReceiver >  
NUL  
adb shell dpm set-device-owner com.telelogos.mediacontact/.McDeviceAdminReceiver >  
NUL
```

Wait for an activity to appear (specific screen)

Example:

```
:WAITING_FOR_KLMS
SET KMLS_ACTION=0
echo "---- PENDING ACTION BEFORE KLMS SCREEN APPEARS ----"
timeout /t 1 > NUL
for /f "delims=%" %%i in ('%adb% shell "dumpsys activity activities | grep -c
\".activities.ConfirmDialog\" "') do Set KMLS_ACTION=%%i
if %KMLS_ACTION% EQU 0 (goto WAITING_FOR_KLMS)
```

## Zebra devices

Identify MC33 keypad model

```
adb shell getprop ro.config.device.keyboard
```

Possible responses: 7 (29-key device) / 6 (38-key device) / 5 (47-key device)

## Honeywell devices

Identify CK65 keypad model

```
adb shell getprop ro.hon.plat.keypad
```

Example:

```
> adb shell getprop ro.hon.plat.keypad
> qwertx
```

Possible responses: qwerty (51-key alpha) / numeric (38-key numeric)