How to Disable the DM-Verity option in your Android device.

To disable the Android dm-verity in the new devices you should have the below.

- A Window/Linux computer
- The Android SDK platform-packages tools.

Download the Android Packages tool.

To use the Android kernel or give root access to your Android device, is needed to have some tools from the Android SDK like ADB or fastboot. To download those tools just go to below web-page:

https://developer.android.com/studio#downloads

Go to the "command line tools only" part and download the sdk-tools-windows-4333796.zip package.

Command line tools only

	D.	not need Android Studio, you can download the basic Android command line tools below. You can use the included adkmanager to download other SDK packages. Is are included in Android Studio.		
	Platform	SDK tools package	Size	SHA-256 checksum
	Windows	sdk-tools-windows-4333796.zip	148 MB	7e81d69c303e47a4f0e748a6352d85cd0c8fd90a5a95ae4e076b5e5f960d3c7a
	Мас	sdk-tools-darwin-4333796.zip	98 MB	ecb29358bc0f13d7c2fa0f9290135a5b608e38434aad9bf7067d0252c160853e
	Linux	sdk-tools-linux-4333796.zip	147 MB	92ffee5a1d98d856634e8b71132e8a95d96c83a63fde1099be3d86df3106def9
9	See the SDK tools	release notes.		

Note: Is recommended to storage the content of the zip file in path that you could find without any problem, since the Android SDK tools can only be run by the terminal console.

Unlock your Android device.

On the Android GUI go to Settings -> systems -> About Phone

-				
Device				
EVK_8	ΛŲ			
Emerg	ency information			
Info &	contacts for Owner			
Legal	nformation			
Mode	& hardware			
Mode	EVK_8MQ			
Andro	id version			
9				
IP ad				
Unava	ilable			
	MAC address			
02:00	:00:00:00			
	ooth address			
Unav	ulable			
	number			
evk	mq-userdebug 9 2.0.0-ga-rc4 20190	0422 dev-keys		

At the bottom you should see the build number of your Android device. Tap it multiple times until appears on the screen that you are a developer now.

Go to the developer options and search for the OEM unlock option. You need to activate that option.

On	
Desktop full backups aren't currently protected	
Stay awake Screen will never sleep while charging	
HDCP checking Use HDCP checking for DRM content only	
Enable Bluetooth HCI snoop log Capture all Bluetooth HCI packets in a file (Toggle Bluetooth after changing this setting)	•
OEM unlocking Allow the bootloader to be unlocked	•
Running services View and control currently running services	
Picture color mode Use sRGB	
WebView implementation Android System WebView	
Automatic system updates Apply updates when device restarts	
4 4 8	

Open the power-shell terminal and go to the path where you stored the zip file.

Example for Windows:

cd C:\users\diego\Documents\platform-tools

The you will use the ADB tool (Adroid Debug Bridge). To use it you need to run adb.exe in your power-shell terminal. To run a executable in the Windows terminal is just with .\.

Connect the serial download cable to the host computer (the Type C for the i.MX8M and i.MX8MM. The OTG for the i.M6 SabreSD boards).

Open the adb server.

.\adb.exe start-server

See your connected devices.

.\adb.exe devices

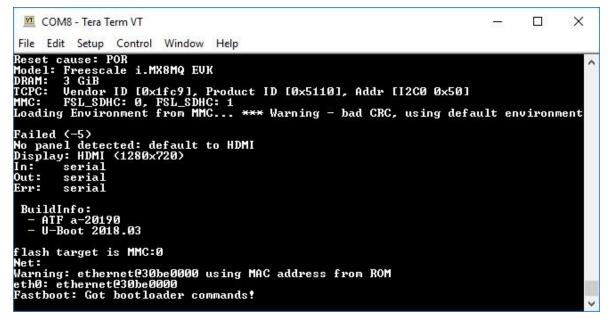
You should see your device and the serial number that is assigned to the device.

Then, enter Bootloader mode.

.\adb.exe reboot bootloader



Note to see if your board successfully entered to Bootloader mode. In your serial terminal, you should see that you are in Bootloader mode.



Once inside the Bootloader mode, using fastboot you can unlock your phone.

First see if your computer recognizes your board once inside the Bootloader mode.

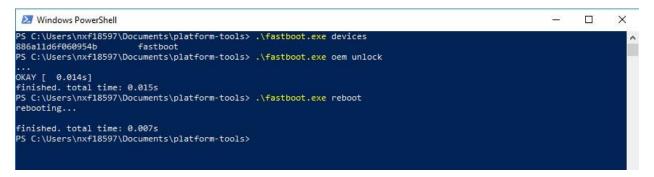
.\fastboot.exe devices

If you do not see any device, go to the final section of the document.

Finally, Unlock and reboot the board.

.\fastboot.exe oem-unlock

.\fastboot.exe reboot



Unlock the dm-verity option.

After the board rebooted. Start again the adb server

.\adb.exe start-server

.\adb.exe devices

Then root the board

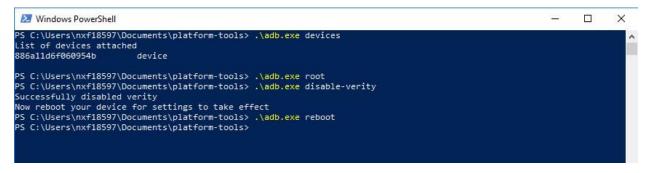
.\adb.exe root

After rooting the board, disable the dm-verity option

.\adb.exe disable-verity

After disabling the verity option, it will request you to reboot your board. Just reboot your board.

.\adb.exe reboot

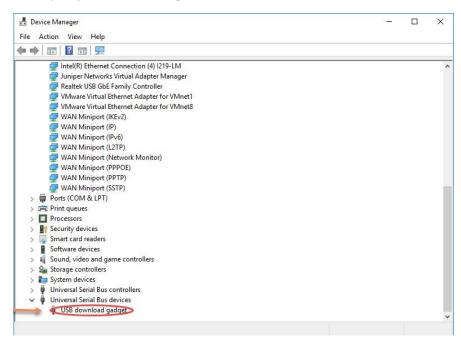


With that, you should have successfully disabled the verity option in your board.

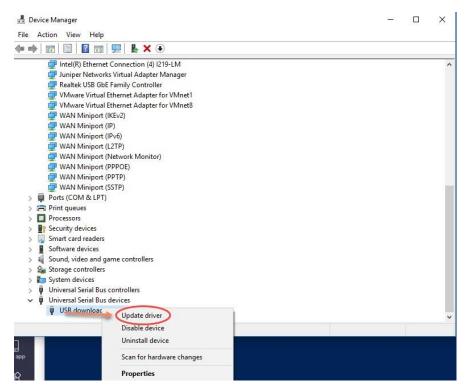
Appendix A Update the USB driver (For Windows only)

If your computer does not recognize once you are inside the bootloader mode. What you need to do is update the USB driver. To update the driver, follow the below steps.

First open your device manger and locate the Universal Serial Bus devices -> USB download gadget.



Then press the right click and select the update driver option.



Select the "Browse my computer for driver software" option.

\rightarrow	Search automatically for updated driver software Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation	
	settings.	
\rightarrow	Browse my computer for driver software Locate and install driver software manually.	

Select the "Let me pick from a list of available drivers on my computer" option.

Update Drivers - USB download gadget		
Browse for drivers on your computer		
Search for drivers in this location:		
C:\Users\nxf18597\Documents	Browse	
☑ Include subfolders		
→ Let me pick from a list of available drivers on my co This list will show available drivers compatible with the device, and same category as the device.		

Select the ADB Device Model.

Select the device driver	you want to install for this hardware.
	urer and model of your hardware device and then click Next. If you hav e driver you want to install, click Have Disk.
Manufacturer Microsoft STMicroelectronics	Model
WinUsb Device	WinUsb Device
This driver is digitally sign	ned. Have Disk

And accept to install the driver. After that your computer should recognize the board being into Bootloader mode.