XDS110 probe firmware modification

MSP Team

TEXAS INSTRUMENTS

XDS110 probe default firmware

```
<<<< Device 0 >>>>

VID: 0x0451    PID: 0xbef3
Device Name:   XDS110 Probe with CMSIS-DAP
Version:       3.0.0.25
Manufacturer:  Texas Instruments
Serial Num:    00000000
Mode:          Runtime
Configuration: Standard

Found 1 device.
```

Incorrect serial number will make error when use UniFlash CLI to do a factory reset.

It should be modified to ML130001 when load program to M0L series via CLI (if not use factory reset, it will have no error.)

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XDS110 probe firmware update

(1)   Find the XDS tool in CCS install path: (using CCS 12.3 or newer)

`C:\ti\ccs1220\ccs\ccs_base\common\uscif\xds110`

(2)   There will be a instructions of how to use the tool.

Used in step 3-1.

Name	Date modified
boot_loader.axf	11/29/2022 6:34 AM
boot_loader.bin	11/29/2022 6:34 AM
eZ_FetDcdcController.txt	11/29/2022 6:34 AM
firmware_3.0.0.22.bin	11/29/2022 6:34 AM
xds110reset.exe	11/29/2022 6:34 AM
XDS110SupportReadMe.pdf	11/29/2022 6:34 AM
xdsdfu.exe	11/29/2022 6:34 AM

(3)   Use command of windows to use the tool.

Command Prompt

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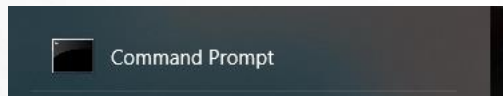
XDS110 probe firmware update

(3-1)   Update the file path of cmd

```
C:\Users_____>cd C:\ti\ccs1220\ccs\ccs_base\common\uscif\xds110
```

(3-2)   Check the information of XDS110 probe

```
C:\ti\ccs1220\ccs\ccs_base\common\uscif\xds110>xdsdfu.exe -e

USB Device Firmware Upgrade Utility
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Scanning USB buses for supported XDS110 devices...

<<<< Device 0 >>>>

VID: 0x0451    PID: 0xbef3
Device Name:   XDS110 Probe with CMSIS-DAP
Version:       3.0.0.25
Manufacturer:  Texas Instruments
Serial Num:    ML130001
Mode:          Runtime
Configuration: Standard

Found 1 device.
```

Do NOT forget add .exe in the cmd line.

Note:
1. Here is the information which is already updated

2. The method to update the serial number (it is described in SupportReadMe.pdf file, Page 4):

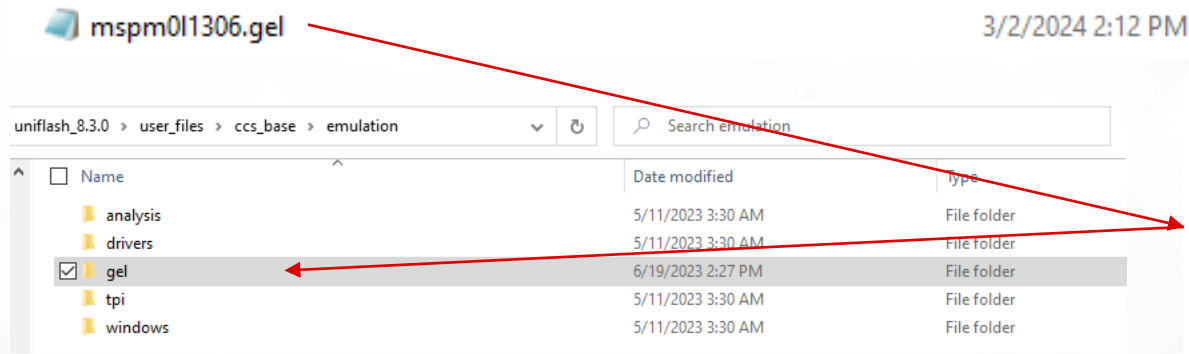2-1 xdsdfu.**exe** -m
2-2 xdsdfu.**exe** -s ML130001 –r

Then the serial number is updated.

TEXAS INSTRUMENTS

Modify .GEL file for auto factory reset

TEXAS INSTRUMENTS

Modify .GEL file for auto factory reset

(4)   Execute factory reset before loading the images.

(4-1)   Update the .gel file to modify a one-shot time factory reset before loading images

Note: Only put the .gel file into the path, and make sure the file name is the same as previous file.
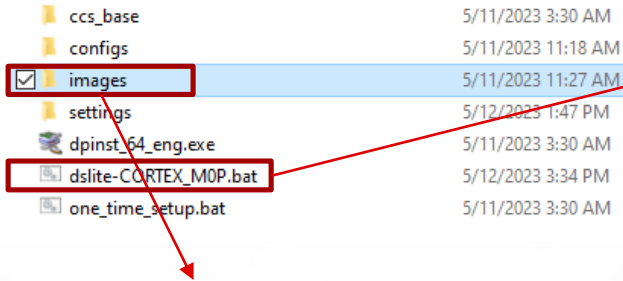
[This requires non-modification of .ccxml file]

(4-2)   Double click on [✓] dslite-CORTEX_M0P.bat , and it will automatically do a factory reset and load the program into the device

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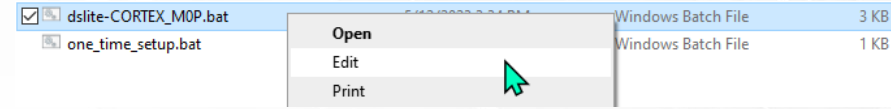
BACK UP

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How to select the images for loading

(1)

Put the images need to be loaded in the folder.

(2)


```
set GENERATED_COMMAND=-c configs/MSPM0L1306.ccxml -1
settings/generated.ufsettings -s VerifyAfterProgramLoad="No verification" -e -f
-v "images/timx_timer_mode_periodic_sleep_LP_MSPM0L1306_nortos_ticlang.txt"
set ADDITIONALS=
```

Change the path to your individual loaded file name and path.

(3)   More instructions please refer to following document or link:

https://software-dl.ti.com/ccs/esd/uniflash/docs/v8_1/uniflash_quick_start_guide.html (UniFlash user's guide)

file:///C:/ti/ccs1230/ccs/eclipse/plugins/com.ti.ccstudio.usersguide.doc_12.3.0.202303241404/html/users_guide/ccs_debug-gel.html (included in CCS install path, a document for GEL usage.)

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