

QFIL Download a build image user guide

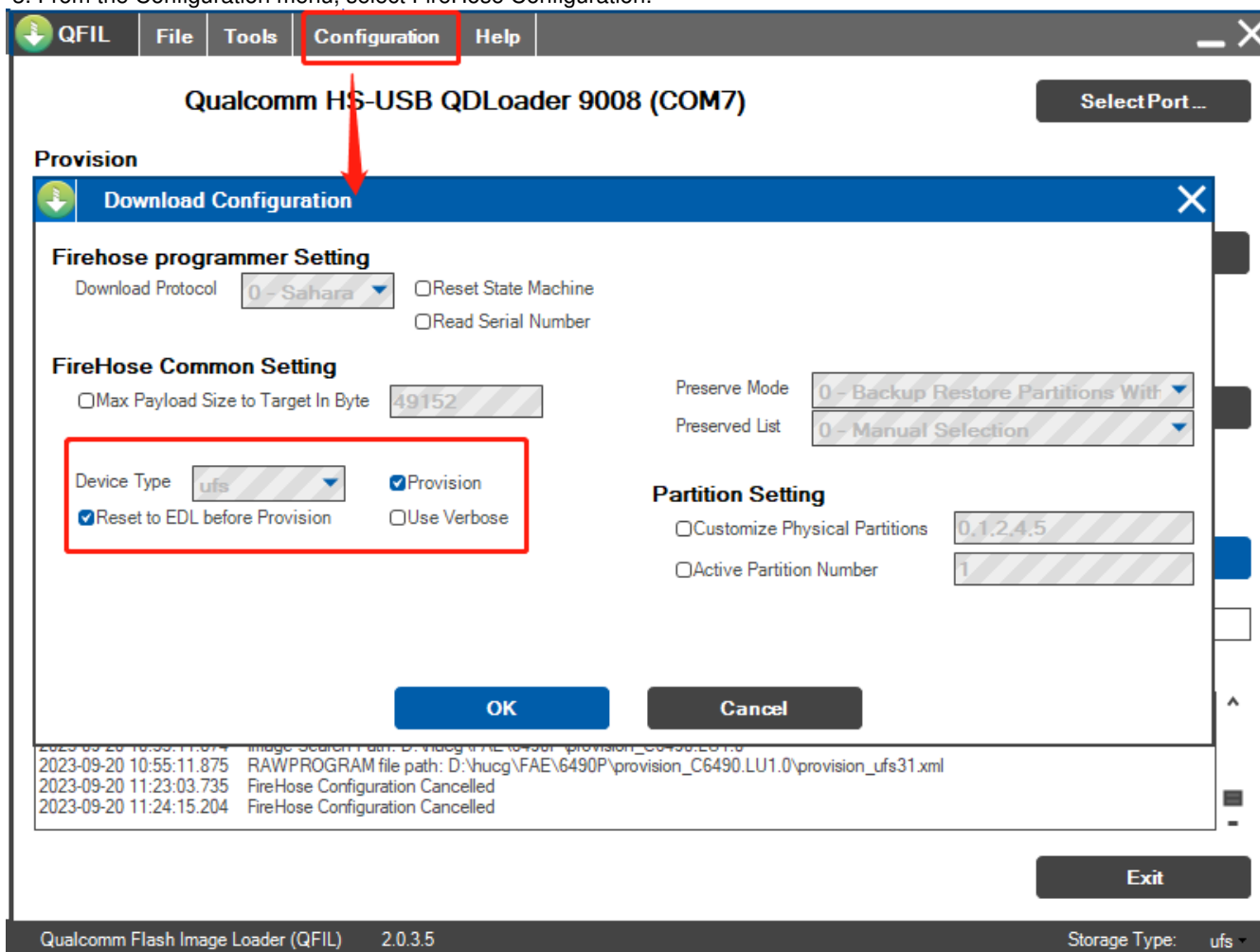
[How to Get and Install QFIL Flash tool](#)

Provision UFS device

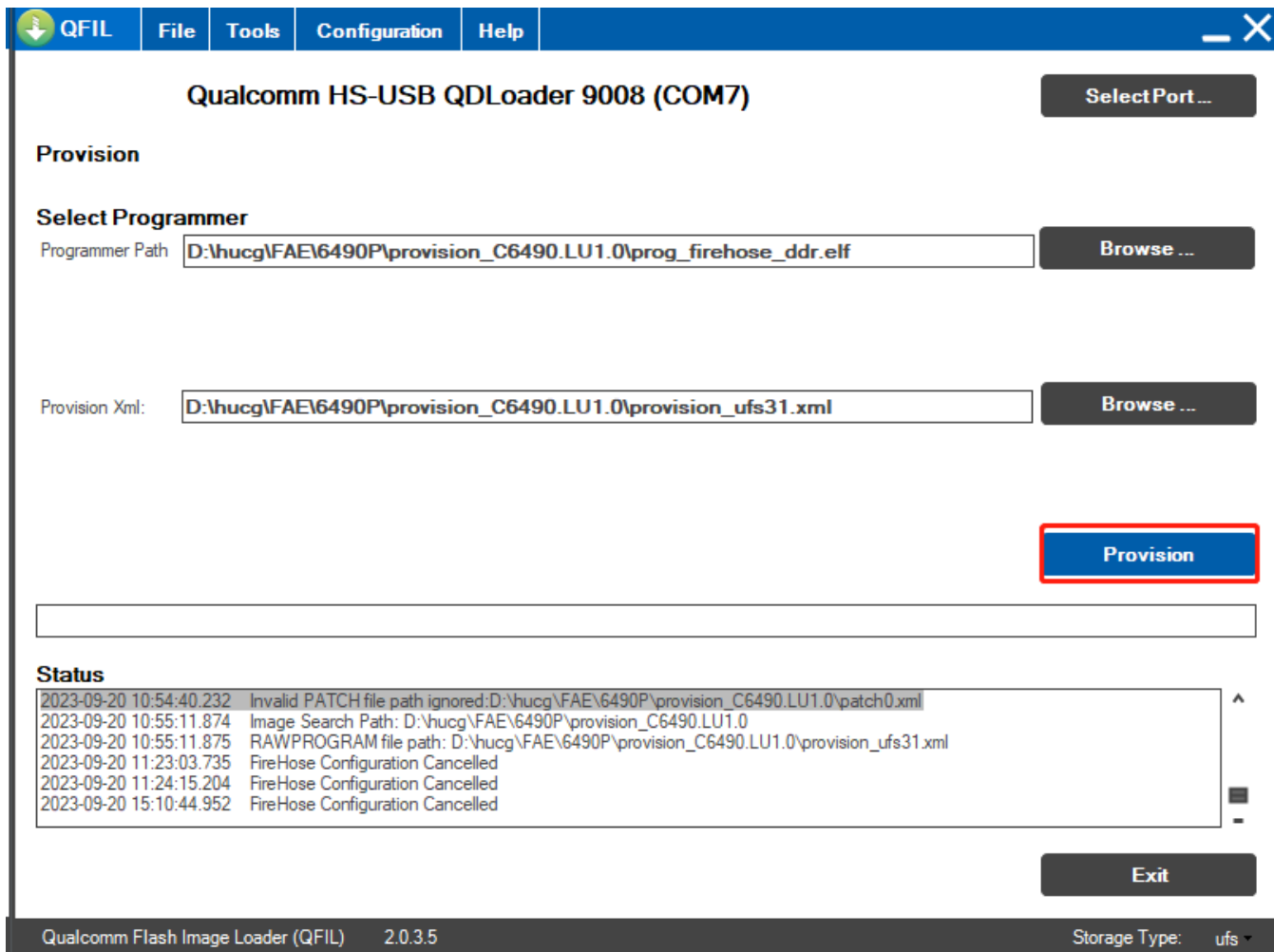
Provisioning is only required for the UFS flash type . This is a one-time non-reversible action that must be executed with care. Ensure that the target is in EDL mode prior to provisioning. This feature is not supported in Diag mode. If the target is in Diag mode, the UFS is already provisioned.

You can refer for our [Tflash user guide](#) of chapter 3.1. Provision UFS for the similar operation.

1. Plug in a target device in EDL mode to an available USB port.
2. Open QFIL.
3. From the Configuration menu, select FireHose Configuration.



4. In the Programmer Path field, click Browse and select a programmer.
5. In the Provision Xml field, click Browse and navigate to the build path to select the provision xml.
6. Click Provision



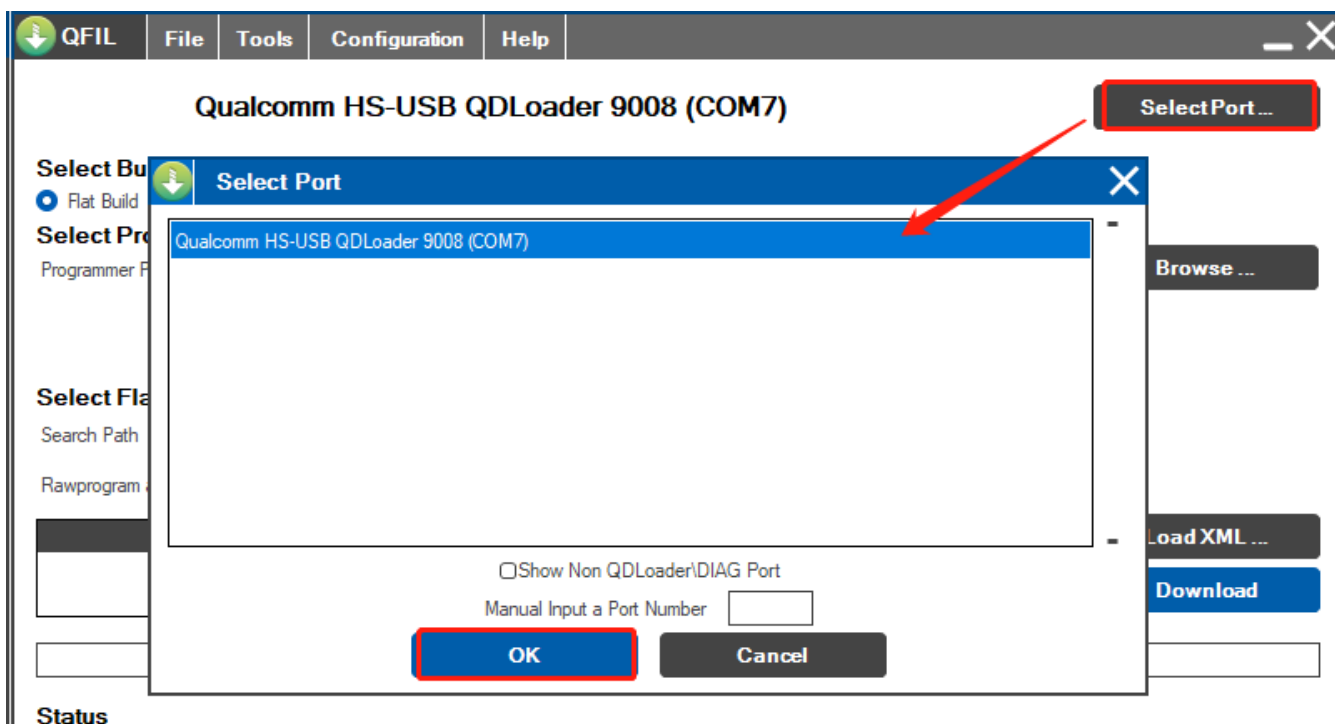
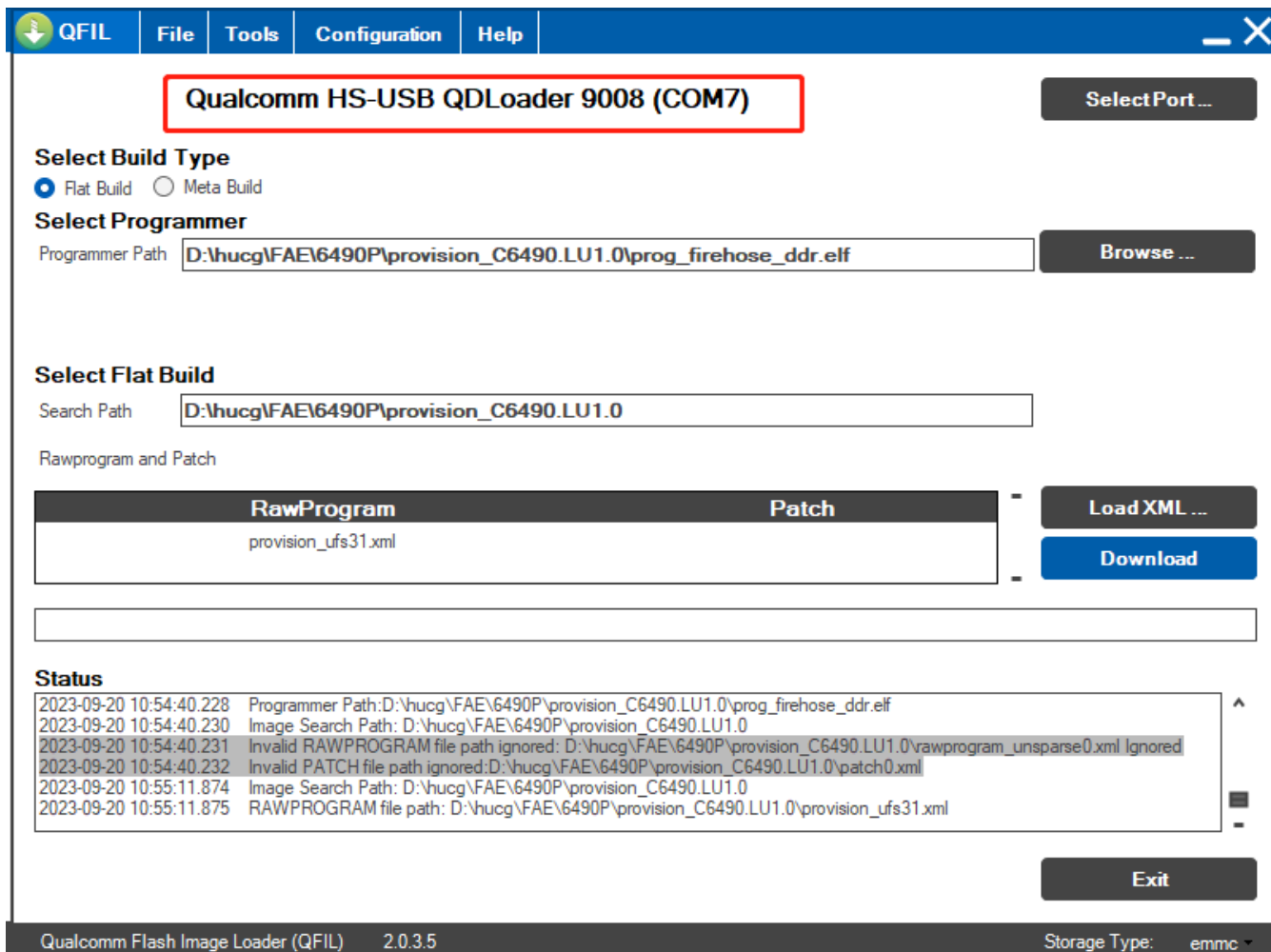
Download a flat build image

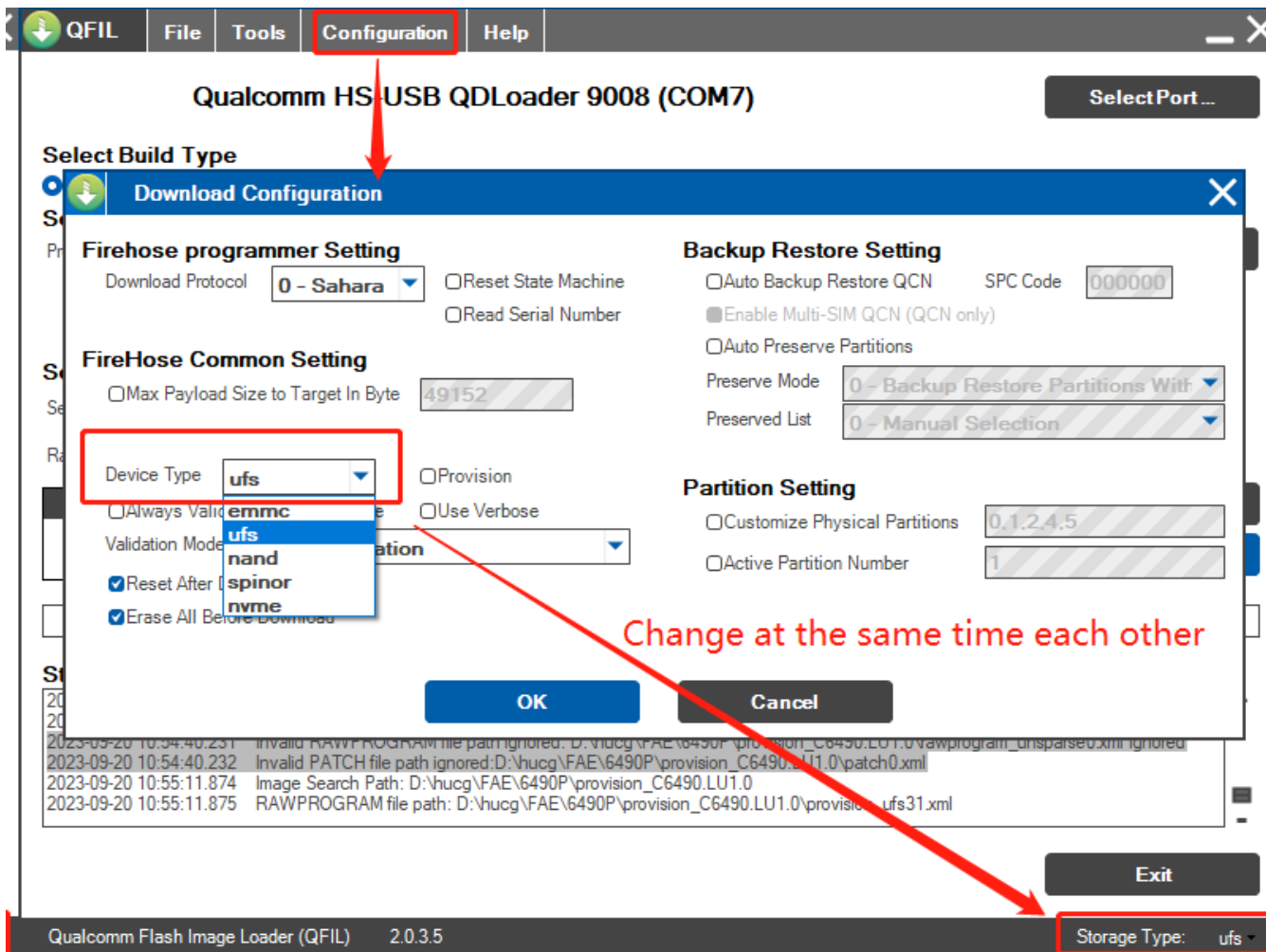
Now we provide the the flat build image for customer to flash. You can also build yourself flatbuild image to use. Flat build organization requires all files needed to load a build to be in a single folder.

You can refer for our [Tflash user guide](#) of chapter 3.2. Flash the Image for the similar operation.

1. Connect the USB port

Plug in a target device in EDL mode to an available USB port. The device is displayed at the top of the main screen. If the port is not automatically detected, click Select Port. Select the applicable device and click OK.





Reset After Download is Enables this option to reset device after download

Erase all before download is to erase entire flash before a download. If you flash a build image from one OS to another OS, you should choose it.

It is important that if you flash a build with modem feature, you'd better not choose this option.

clipboard-202309211629-gnc7w.png

If you do not confirm which storage type to choose, you can refers for our release note chapter SDK source tree structure from our documents system. For example:

https://docs.thundercomm.com/turbox_doc/

TurboX C6490P

Quick Start >

Documents >

Development Kit	Quick Start Guide	[tc-x3-2110] TurboX_C6490P_DK_Quick_Start_Guide_V1.0.pdf	
	Hardware	Schematic Reference Design	[tc-x3-2210] TurboX_C6490P_DK_V03_Schematic_Reference_Design_V1.0.pdf
		Placement	[tc-x3-22310] TurboX_C6490P_DK_V03_Placement_V1.0.pdf
	Software	Software Release Note (LU1.0, Ubuntu 20.04)	[tc-x3&S2-2410] TurboX_C6490P_C5430P_DK_LU_Software_Release_Notes_(for_LU1.0.ES.r000001)_V1.0.pdf
Software Release Note (LA3.0, Android 13)		[tc-x3-2410] TurboX_C6490P_LA_Software_Release_Notes_(for_LA3.0.ES.r000001)_20230601_V1.0.pdf	

3.3. SDK source tree structure

```

turbox-c6490p-la3.0-vendor-dev/
├── about.html -> common/about.html
├── contents.xml -> common/contents.xml
├── common/config/ufs/partition_ext_dcm.xml
├── QCOM6490_apps_qssi13
├── LINUX
│   ├── android
│   │   ├── bionic
│   │   ├── bootable/bootloader/edk2
│   │   ├── bootable/recovery
│   │   ├── build
│   │   └── for system build rules and generics
│   └── SDK version info(Product, Distribution,Components, ...)
│       ├── image contents file
│       ├── partition file
│       └── Qualcomm single system image feature
└── bootloader sources
    ├── recovery sources
    └── basic config files for development kit, such as files

```

3. Ensure that all Raw Program and Patch files are selected.

Please refer for 3.2.5.Flash the FlatBuild Image of [Tflash user guide](#).

4. Click the Download to start a flat build image. You should choose Select Build Type "Flat Build".

Qualcomm HS-USB QDLoader 9008 (COM7) Select Port ...

Select Build Type
☒ Flat Build ☐ Meta Build

Select Programmer
Programmer Path: Browse ...

Select Provision Configuration
Search Path:

Rawprogram and Patch

RawProgram	Patch
rawprogram_unsparse0.xml	patch0.xml
rawprogram1.xml	patch1.xml

Load XML ... Download

Status

2023-09-20 16:26:52.483	PATCH file path:D:\hucg\FAE\6490P\FlatBuild_TurboX_C6490P_xx.xx_LU1.0.R.debug.ES.r000001\ufs\patch0.xml
2023-09-20 16:26:52.483	PATCH file path:D:\hucg\FAE\6490P\FlatBuild_TurboX_C6490P_xx.xx_LU1.0.R.debug.ES.r000001\ufs\patch1.xml
2023-09-20 16:26:52.483	PATCH file path:D:\hucg\FAE\6490P\FlatBuild_TurboX_C6490P_xx.xx_LU1.0.R.debug.ES.r000001\ufs\patch2.xml
2023-09-20 16:26:52.484	PATCH file path:D:\hucg\FAE\6490P\FlatBuild_TurboX_C6490P_xx.xx_LU1.0.R.debug.ES.r000001\ufs\patch3.xml
2023-09-20 16:26:52.484	PATCH file path:D:\hucg\FAE\6490P\FlatBuild_TurboX_C6490P_xx.xx_LU1.0.R.debug.ES.r000001\ufs\patch4.xml
2023-09-20 16:26:52.484	PATCH file path:D:\hucg\FAE\6490P\FlatBuild_TurboX_C6490P_xx.xx_LU1.0.R.debug.ES.r000001\ufs\patch5.xml

Exit

Qualcomm Flash Image Loader (QFIL) 2.0.3.5 Storage Type: ufs

You can also right-click the mouse and select "Save Log" in Status output window.

Qualcomm Flash Image Loader (QFIL) 2.0.3.5 Storage Type: ufs

Select Build Type
☒ Flat Build ☐ Meta Build

Select Programmer
Programmer Path: Browse ...

Select Provision Configuration
Search Path:

Rawprogram and Patch

RawProgram	Patch
rawprogram_unsparse0.xml	patch0.xml
rawprogram1.xml	patch1.xml

Load XML ... Download

Status

2023-09-20 16:26:52.483	PATCH file path:D:\hucg\FAE\6490P\FlatBuild_TurboX_C6490P_xx.xx_LU1.0.R.debug.ES.r000001\ufs\patch0.xml
2023-09-20 16:26:52.483	PATCH file path:D:\hucg\FAE\6490P\FlatBuild_TurboX_C6490P_xx.xx_LU1.0.R.debug.ES.r000001\ufs\patch1.xml
2023-09-20 16:26:52.483	PATCH file path:D:\hucg\FAE\6490P\FlatBuild_TurboX_C6490P_xx.xx_LU1.0.R.debug.ES.r000001\ufs\patch2.xml
2023-09-20 16:26:52.484	PATCH file path:D:\hucg\FAE\6490P\FlatBuild_TurboX_C6490P_xx.xx_LU1.0.R.debug.ES.r000001\ufs\patch3.xml
2023-09-20 16:26:52.484	PATCH file path:D:\hucg\FAE\6490P\FlatBuild_TurboX_C6490P_xx.xx_LU1.0.R.debug.ES.r000001\ufs\patch4.xml
2023-09-20 16:26:52.484	PATCH file path:D:\hucg\FAE\6490P\FlatBuild_TurboX_C6490P_xx.xx_LU1.0.R.debug.ES.r000001\ufs\patch5.xml

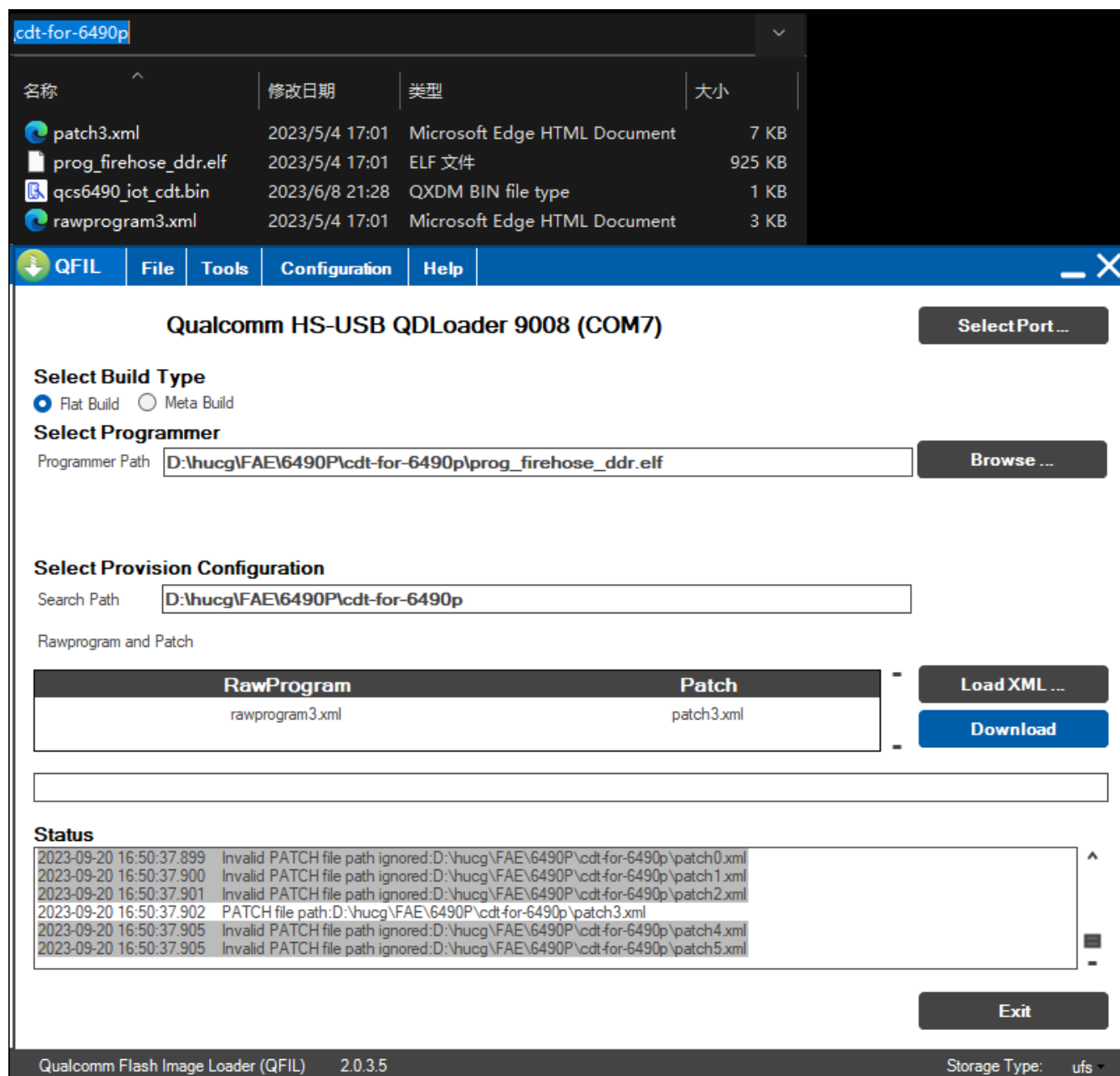
Save Log Clear Log

Exit

Qualcomm Flash Image Loader (QFIL) 2.0.3.5 Storage Type: ufs

Download CDT image

CDT is designed to ensure that the same codebase supports various hardware and software versions. Different products or baselines may be used, refer to our release note documentation, or request support from our support system. <http://support.thundercomm.com/>
For example:



Note:
Because of the Qualcomm permission agreement, we cannot give it directly to the QFIL tool. This is a tool obtained from a third party for customers to use, but if there is a problem with the QFIL tool itself, we will not be able to provide tool repair support.
And when you encounter how to use, you can contact us for support.

Files

clipboard-202309211656-6xroc.png	56.3 KB	2023-09-21	_000#014239 hucg0702
clipboard-202309211657-rxejx.png	44.4 KB	2023-09-21	_000#014239 hucg0702
clipboard-202309211657-k2kok.png	53.1 KB	2023-09-21	_000#014239 hucg0702
clipboard-202309211658-tdr10.png	33.1 KB	2023-09-21	_000#014239 hucg0702
clipboard-202309211658-uewlv.png	75.8 KB	2023-09-21	_000#014239 hucg0702
clipboard-202309211659-2nss4.png	150 KB	2023-09-21	_000#014239 hucg0702
clipboard-202309211659-6gaiw.png	60.3 KB	2023-09-21	_000#014239 hucg0702
clipboard-202309211700-js2ci.png	35.7 KB	2023-09-21	_000#014239 hucg0702
clipboard-202309211701-spbka.png	70.4 KB	2023-09-21	_000#014239 hucg0702