

UM11675

NXP Wi-Fi Driver Source and Firmware Binary Download Guide

Rev. 1 — 21 September 2021

User manual

Document information

Information	Content
Keywords	NXP Wi-Fi driver source, Git tool, Windows OS, Linux OS, firmware binaries
Abstract	Guidelines to install Git on Linux/Windows systems, and download NXP Wi-Fi driver source files and firmware binaries from Git tool



Revision history

Rev	Date	Description
v.1	20210921	Initial version

1 Overview

This document describes how to download NXP Wi-Fi driver source and firmware binaries from CodeAurora and GitHub respectively as neither are not available on NXP website. The user must first install the Git tool running on Linux and Windows PCs.

2 Installing Git

This section describes the steps for Git installation. Before you start using Git, it should be installed on the system. If Git is already installed, make sure to use the latest version.

2.1 Installing Git on Linux

Use following command to install Git on the Debian-based distribution.

```
# sudo apt-get install git
```

2.2 Installing Git on Windows

- Download Git application using this [link](#)
- Double-click the executable file (.exe)
- Keep the default options and click **Next** to initiate the installation

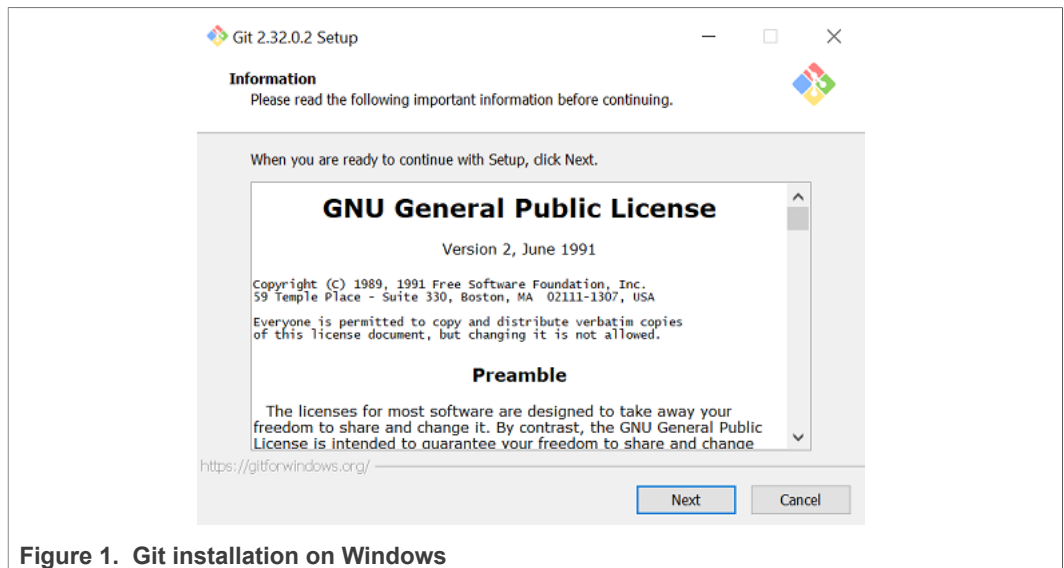


Figure 1. Git installation on Windows

When the installation is complete, Git CMD and Git GUI are available in Windows Explorer.

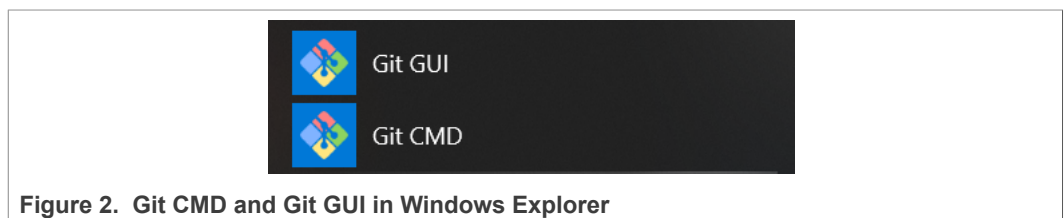


Figure 2. Git CMD and Git GUI in Windows Explorer

3 Download of NXP Wi-Fi driver source

This section shows how to use the Git tool to download NXP Wi-Fi driver source on your Windows or Linux Ubuntu system.

Note: HCI Bluetooth UART driver is open source and available in the Linux kernel source. The Bluetooth features are validated with the BlueZ version 5.56.

3.1 Using Git GUI on Windows

- Launch Git GUI
- Click **Clone Existing Repository**

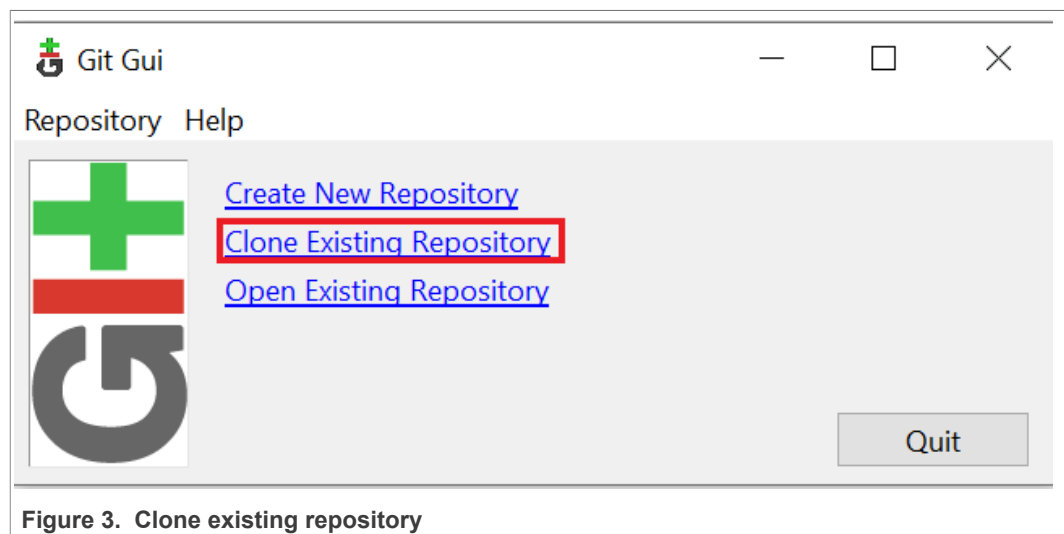


Figure 3. Clone existing repository

- Capture the address to the **source location**
Source Location: <http://source.codeaurora.org/external/imx/mwifiex>
- Define the **target directory** for NXP Wi-Fi driver source to download

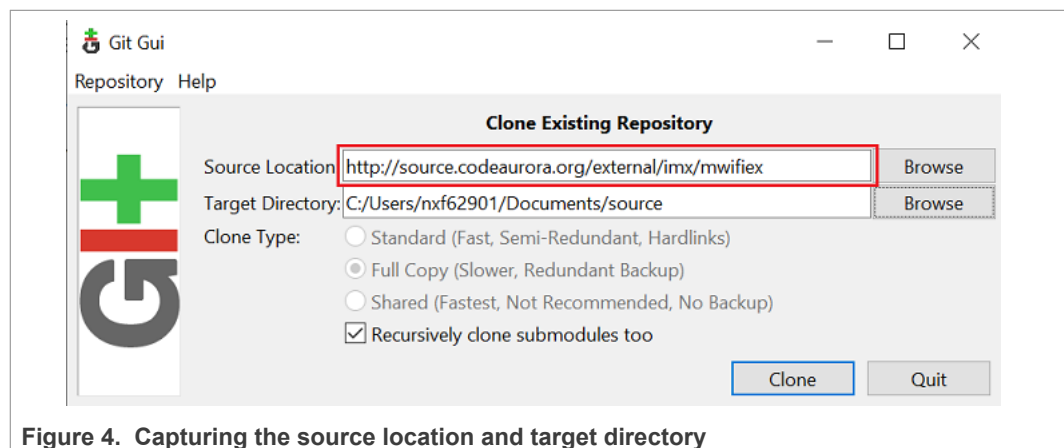


Figure 4. Capturing the source location and target directory

- To initiate the download of NXP Wi-Fi driver source, click the **Clone** button

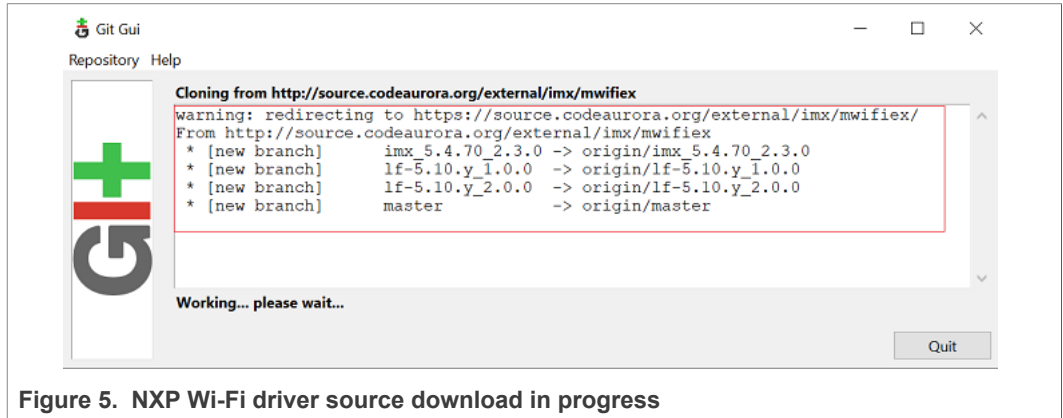


Figure 5. NXP Wi-Fi driver source download in progress

Once the download is complete, the driver source is available in the target directory.

3.2 Using Git CMD on Windows

- Launch Git CMD from Windows Explorer
- Go your Windows home directory
- Use `mkdir` command to create the *source* directory to store NXP Wi-Fi driver source
- Use `cd` command to go to *source* directory

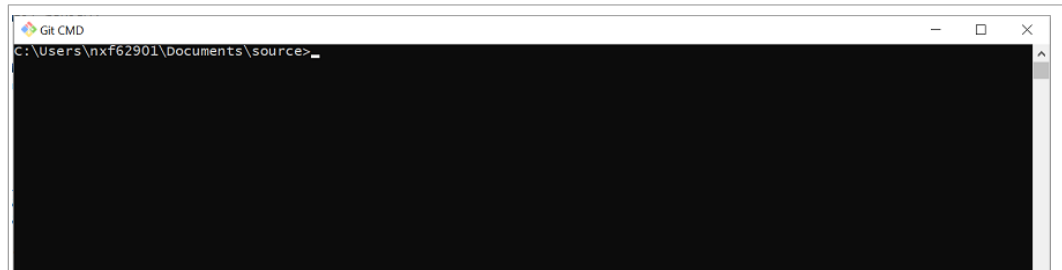


Figure 6. User home directory in Git CMD

- Use the `git clone` command to download NXP Wi-Fi driver source

```
git clone http://source.codeaurora.org/external/imx/mwifiex
```

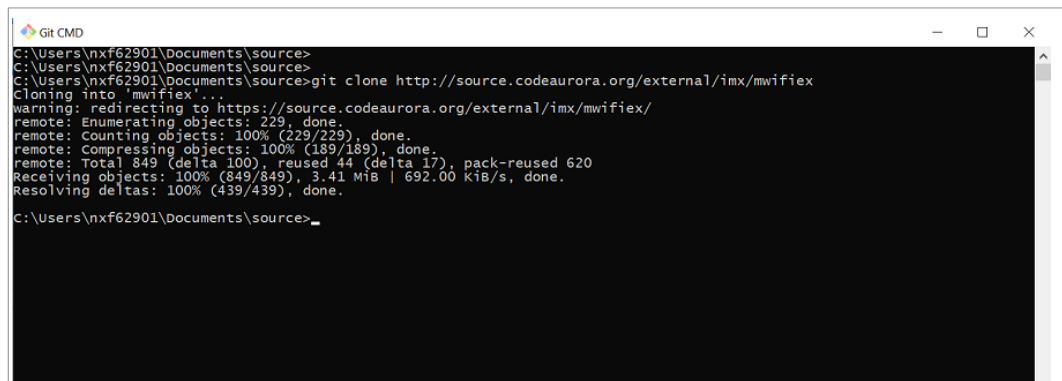


Figure 7. `git clone` command output

Once the download completed, NXP Wi-Fi driver source is available in the (*source*) directory.

3.3 Using Git CMD on Linux

- Launch the Linux terminal (CTRL+ALT+T)



Figure 8. Git CMD prompt on Linux

- Go your Linux home directory
- Use `mkdir` command to create the *source* directory to store NXP Wi-Fi driver source
- Use `cd` command to go to *source* directory
- Use `git clone` command to download the Wi-Fi driver source

```
$ git clone http://source.codeaurora.org/external/imx/mwifiex
```



Figure 9. git-clone command output in Linux

Once the download completed, NXP Wi-Fi driver source is available in the *source* directory.

4 Download of firmware binaries

The firmware binary is available for download in GitHub. You can use either the command line or GitHub website to download the binaries.

4.1 Download using command line

- Follow the steps in [Section 3.1](#) or [Section 3.2](#) for Windows and [Section 3.3](#) for Linux to open the Git tool.
- Issue the `git clone` command to transfer the firmware binaries, and go to the directory with the new content:

```
# git clone https://github.com/NXP/imx-firmware.git
# cd imx-firmware/nxp/
```

4.2 Download using GitHub website

- Open a web browser and use the following link to access *NXP/imx-firmware* page: <https://github.com/NXP/imx-firmware/tree/master/nxp>

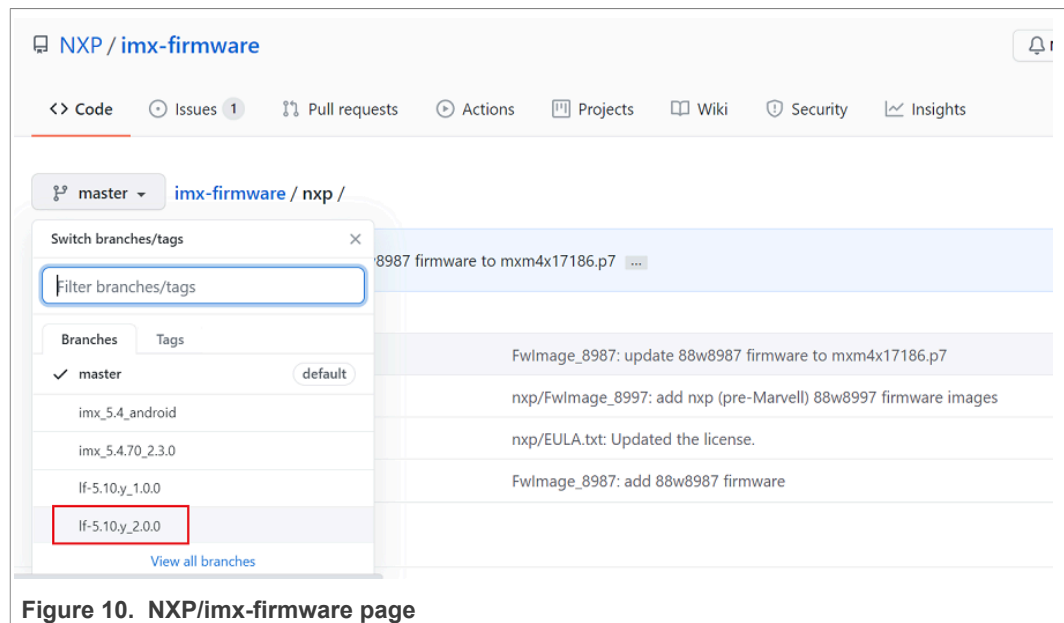


Figure 10. NXP/imx-firmware page

- Select the branch

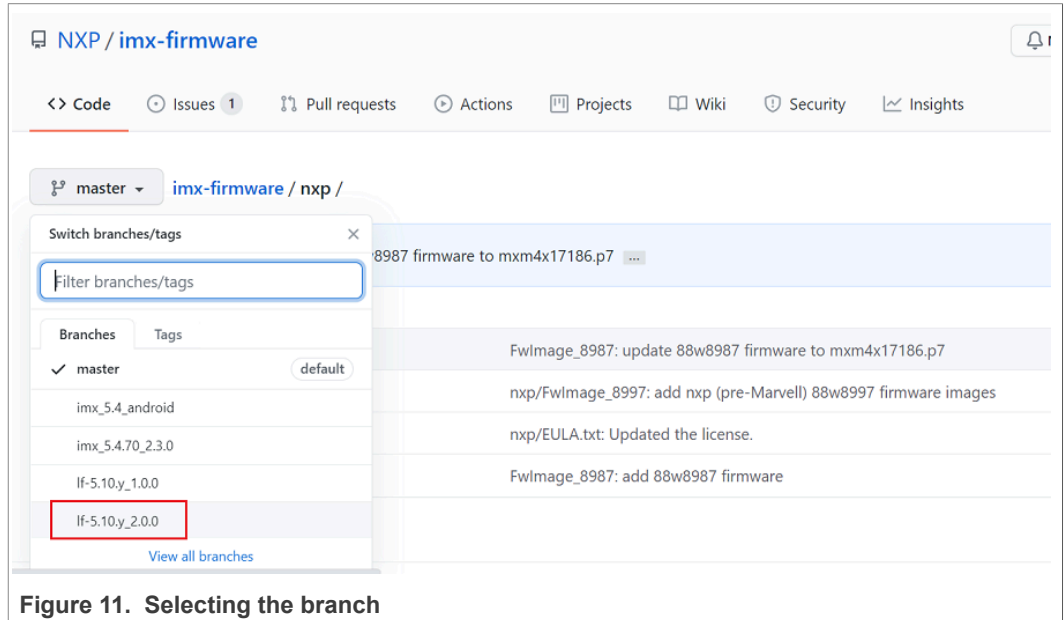


Figure 11. Selecting the branch

- Select the product for the firmware binary. [Figure 12](#) shows the example of 88W8997.

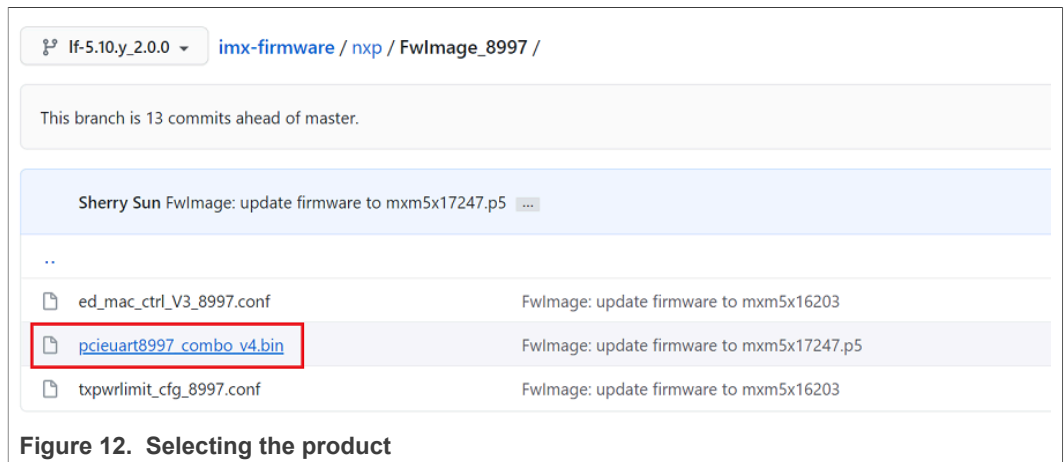


Figure 12. Selecting the product

- Click the **Download** button to initiate the firmware download

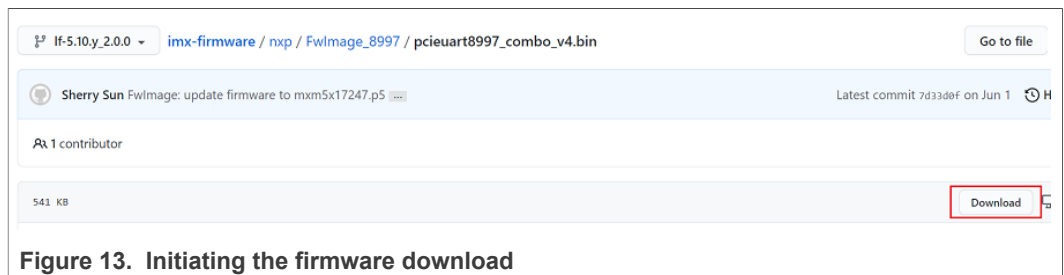


Figure 13. Initiating the firmware download

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