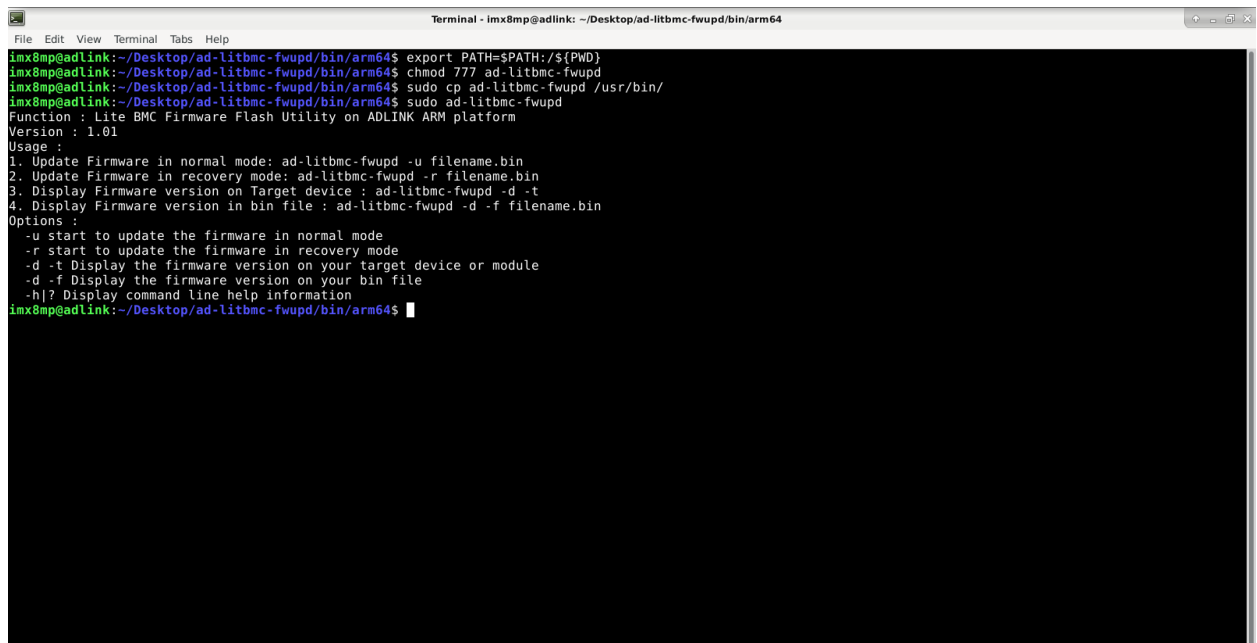


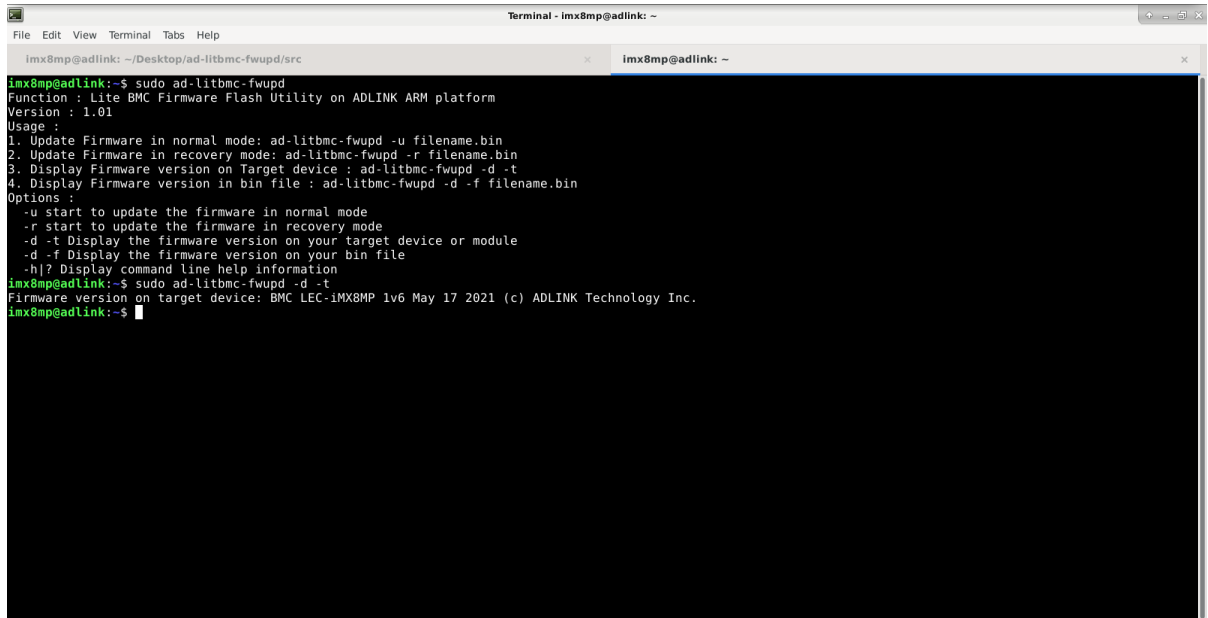
Lite BMC firmware flash utility user guide

1. Download the lite BMC firmware flashing tool “ad-litbmc-fwupd.zip” and extract the file.
2. Copy the executable file from “/ad-litbmc-fwupd/bin/arm64” directory to a local directory in your target system and open the terminal in that directory.
3. In the terminal enter the following commands to give the necessary permissions to the executable binary file and copy it to the “/usr/bin” directory:
 - a. **export PATH=\$PATH:\${PWD}**
 - b. **chmod 777 ad-litbmc-fwupd**
 - c. **sudo cp ad-litbmc-fwupd /usr/bin**



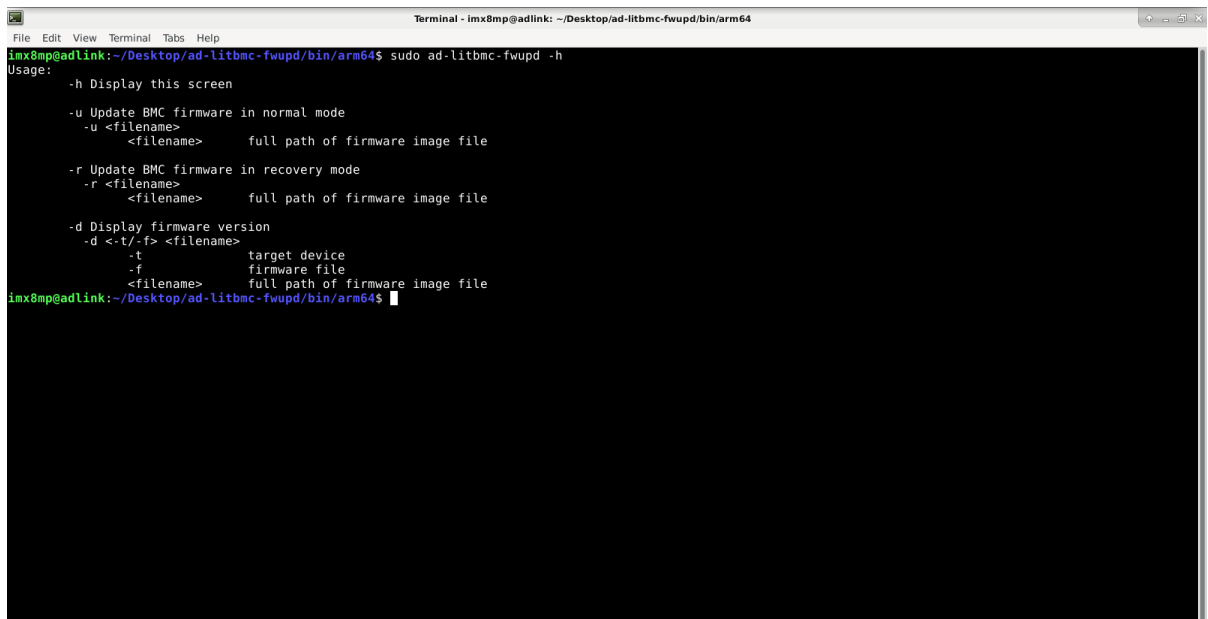
```
Terminal - imx8mp@adlink: ~/Desktop/ad-litbmc-fwupd/bin/arm64
File Edit View Terminal Tabs Help
imx8mp@adlink:~/Desktop/ad-litbmc-fwupd/bin/arm64$ export PATH=$PATH:${PWD}
imx8mp@adlink:~/Desktop/ad-litbmc-fwupd/bin/arm64$ chmod 777 ad-litbmc-fwupd
imx8mp@adlink:~/Desktop/ad-litbmc-fwupd/bin/arm64$ sudo cp ad-litbmc-fwupd /usr/bin/
imx8mp@adlink:~/Desktop/ad-litbmc-fwupd/bin/arm64$ sudo ad-litbmc-fwupd
Function : Lite BMC Firmware Flash Utility on ADLINK ARM platform
Version : 1.01
Usage :
1. Update Firmware in normal mode: ad-litbmc-fwupd -u filename.bin
2. Update Firmware in recovery mode: ad-litbmc-fwupd -r filename.bin
3. Display Firmware version on Target device : ad-litbmc-fwupd -d -t
4. Display Firmware version in bin file : ad-litbmc-fwupd -d -f filename.bin
Options :
-u start to update the firmware in normal mode
-r start to update the firmware in recovery mode
-d -t Display the firmware version on your target device or module
-d -f Display the firmware version on your bin file
-h)? Display command line help information
imx8mp@adlink:~/Desktop/ad-litbmc-fwupd/bin/arm64$
```

4. To run the application, enter the command **“sudo ad-litbmc-fwupd”** and you will see the details about the application and the options to use it.



```
Terminal - imx8mp@adlink: ~  
imx8mp@adlink: ~/Desktop/ad-litbmc-fwupd/src  
imx8mp@adlink:~$ sudo ad-litbmc-fwupd  
Function : Lite BMC Firmware Flash Utility on ADLINK ARM platform  
Version : 1.01  
Usage :  
1. Update Firmware in normal mode: ad-litbmc-fwupd -u filename.bin  
2. Update Firmware in recovery mode: ad-litbmc-fwupd -r filename.bin  
3. Display Firmware version on Target device : ad-litbmc-fwupd -d -t  
4. Display Firmware version in bin file : ad-litbmc-fwupd -d -f filename.bin  
Options :  
-u start to update the firmware in normal mode  
-r start to update the firmware in recovery mode  
-d -t Display the firmware version on your target device or module  
-d -f Display the firmware version on your bin file  
-h)? Display command line help information  
imx8mp@adlink:~$ sudo ad-litbmc-fwupd -d -t  
Firmware version on target device: BMC LEC-iMX8MP 1v6 May 17 2021 (c) ADLINK Technology Inc.  
imx8mp@adlink:~$
```

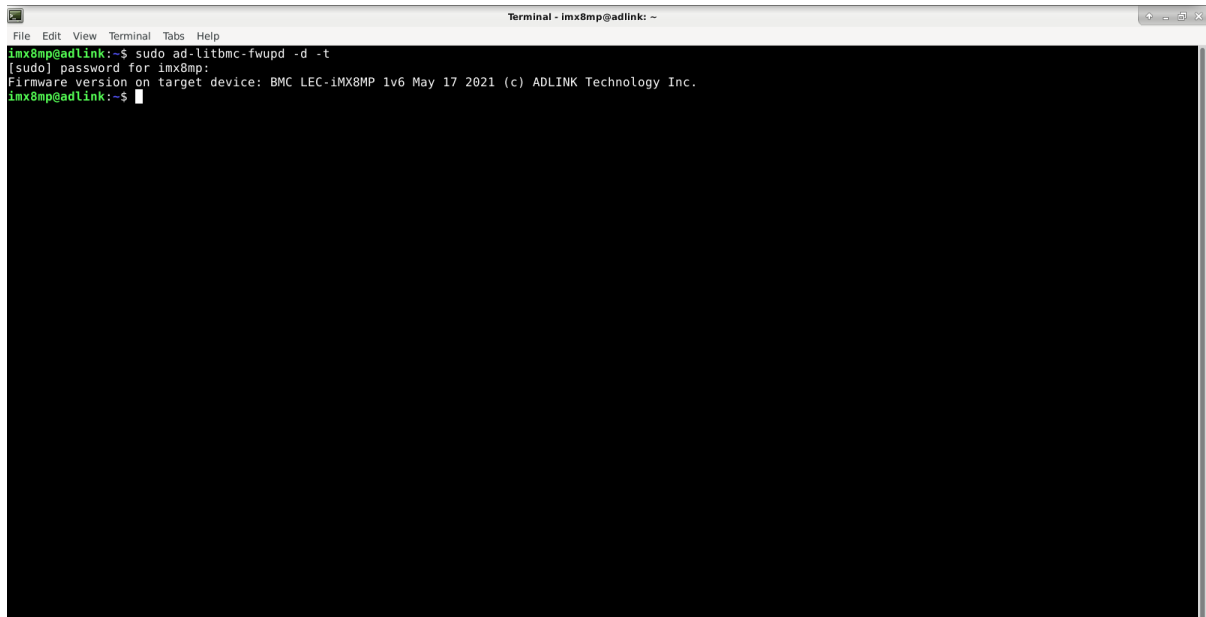
5. To see the application usage options, enter the command:
“sudo ad-litbmc-fwupd -h”.



```
Terminal - imx8mp@adlink: ~/Desktop/ad-litbmc-fwupd/bin/arm64  
imx8mp@adlink:~/Desktop/ad-litbmc-fwupd/bin/arm64$ sudo ad-litbmc-fwupd -h  
Usage:  
-h Display this screen  
-u Update BMC firmware in normal mode  
-u <filename> full path of firmware image file  
-r Update BMC firmware in recovery mode  
-r <filename> full path of firmware image file  
-d Display firmware version  
-d <-t/-f> <filename>  
-t target device  
-f firmware file  
<filename> full path of firmware image file  
imx8mp@adlink:~/Desktop/ad-litbmc-fwupd/bin/arm64$
```

6. To find the current version of the BMC firmware in the target board, enter the command:

“sudo ad-litbmc-fwupd -d -t”

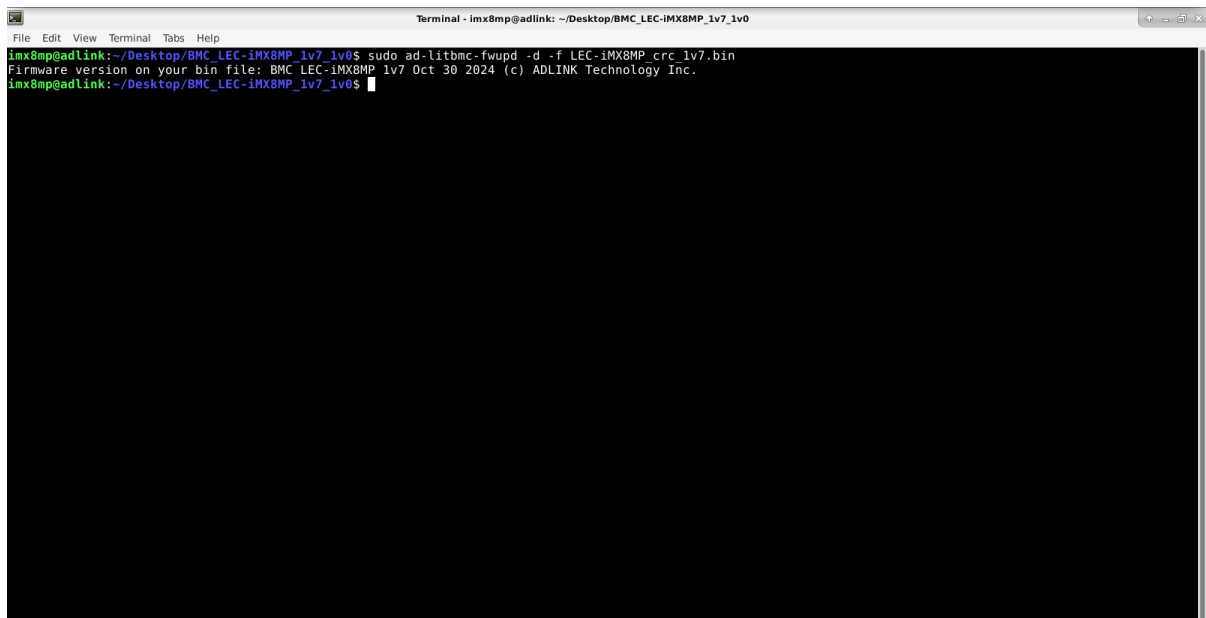


```
Terminal - imx8mp@adlink: ~
File Edit View Terminal Tabs Help
imx8mp@adlink:~$ sudo ad-litbmc-fwupd -d -t
[sudo] password for imx8mp:
Firmware version on target device: BMC LEC-iMX8MP 1v6 May 17 2021 (c) ADLINK Technology Inc.
imx8mp@adlink:~$
```

7. To find the version of the BMC firmware file, enter the command:

“sudo ad-litbmc-fwupd -d -f /path/to/filename.bin”.

Replace the **“/path/to/filename.bin”** with the actual path and name of the firmware file, for example **“LEC-iMX8MP_crc_1v7.bin”**.



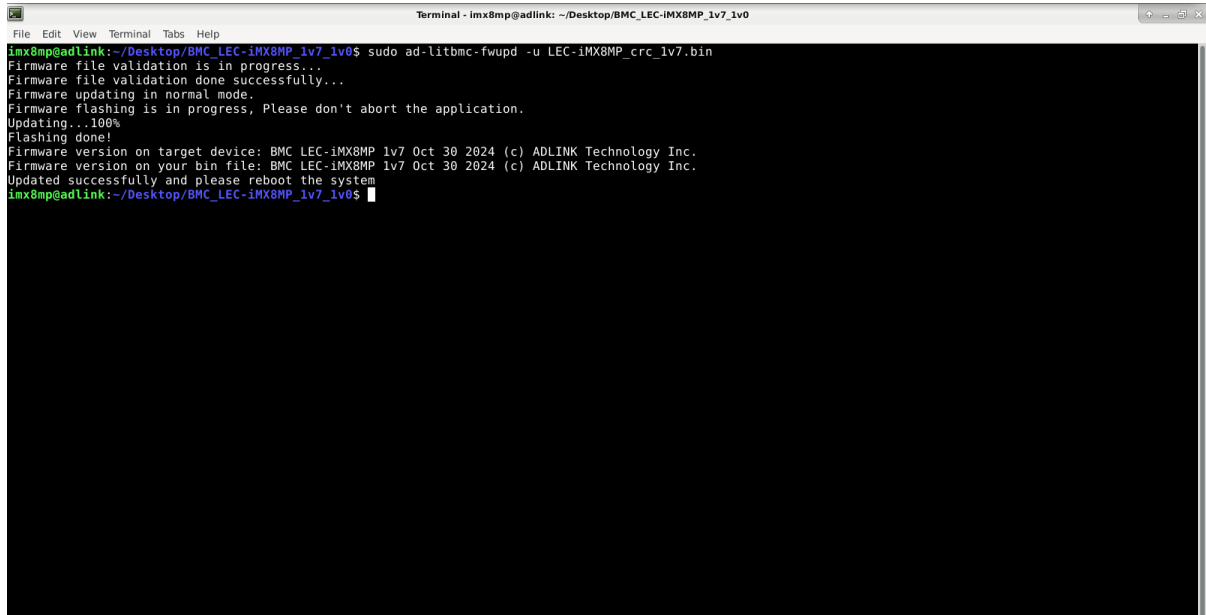
```
Terminal - imx8mp@adlink: ~/Desktop/BMC_LEC-iMX8MP_1v7_1v0
File Edit View Terminal Tabs Help
imx8mp@adlink:~/Desktop/BMC_LEC-iMX8MP_1v7_1v0$ sudo ad-litbmc-fwupd -d -f LEC-iMX8MP_crc_1v7.bin
Firmware version on your bin file: BMC LEC-iMX8MP 1v7 Oct 30 2024 (c) ADLINK Technology Inc.
imx8mp@adlink:~/Desktop/BMC_LEC-iMX8MP_1v7_1v0$
```

8. To update the lite BMC firmware in normal mode, enter the command:

“sudo ad-litbmc-fwupd -u /path/to/filename.bin”.

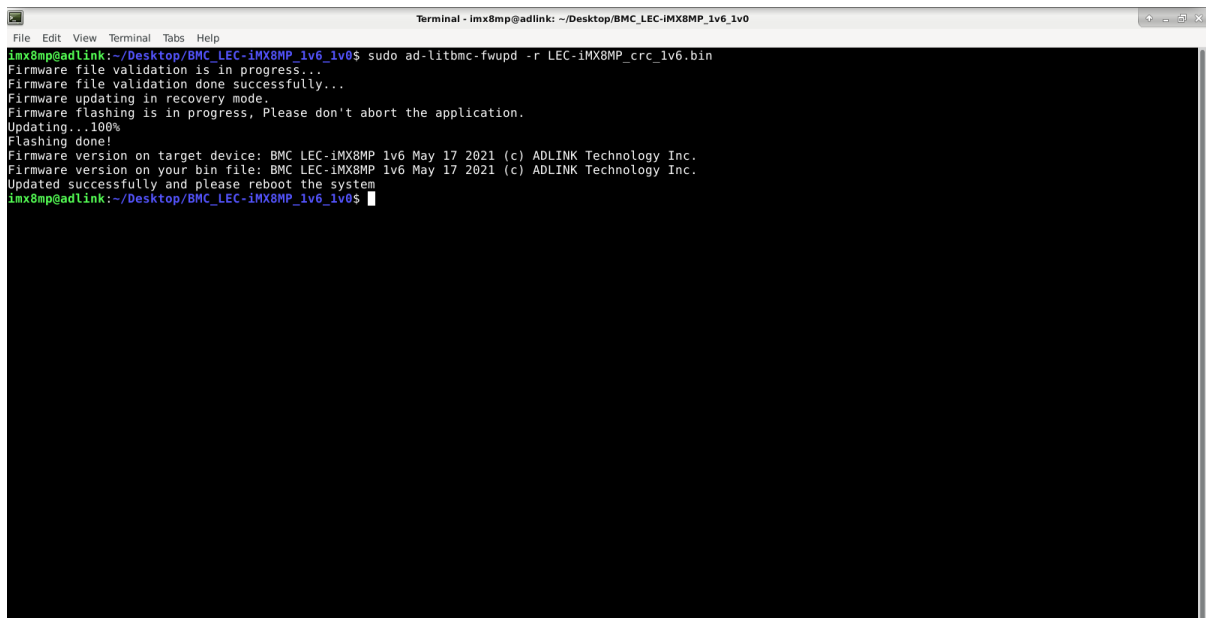
Replace the **“/path/to/filename.bin”** with the actual path and name of the

firmware file, for example “LEC-iMX8MP_crc_1v7.bin”.



```
Terminal - imx8mp@adlink: ~/Desktop/BMC_LEC-IMX8MP_1v7_1v0
File Edit View Terminal Tabs Help
imx8mp@adlink:~/Desktop/BMC_LEC-IMX8MP_1v7_1v0$ sudo ad-litbmc-fwupd -u LEC-iMX8MP_crc_1v7.bin
Firmware file validation is in progress...
Firmware file validation done successfully...
Firmware updating in normal mode.
Firmware flashing is in progress, Please don't abort the application.
Updating...100%
Flashing done!
Firmware version on target device: BMC LEC-IMX8MP 1v7 Oct 30 2024 (c) ADLINK Technology Inc.
Firmware version on your bin file: BMC LEC-IMX8MP 1v7 Oct 30 2024 (c) ADLINK Technology Inc.
Updated successfully and please reboot the system
imx8mp@adlink:~/Desktop/BMC_LEC-IMX8MP_1v7_1v0$
```

9. To update the lite BMC firmware in recovery mode, enter the command:
“**sudo ad-litbmc-fwupd -r /path/to/filename.bin**”.
- Replace the “**/path/to/filename.bin**” with the actual path and name of the
firmware file, for example “LEC-iMX8MP_crc_1v6.bin”.



```
Terminal - imx8mp@adlink: ~/Desktop/BMC_LEC-IMX8MP_1v6_1v0
File Edit View Terminal Tabs Help
imx8mp@adlink:~/Desktop/BMC_LEC-IMX8MP_1v6_1v0$ sudo ad-litbmc-fwupd -r LEC-iMX8MP_crc_1v6.bin
Firmware file validation is in progress...
Firmware file validation done successfully...
Firmware updating in recovery mode.
Firmware flashing is in progress, Please don't abort the application.
Updating...100%
Flashing done!
Firmware version on target device: BMC LEC-IMX8MP 1v6 May 17 2021 (c) ADLINK Technology Inc.
Firmware version on your bin file: BMC LEC-IMX8MP 1v6 May 17 2021 (c) ADLINK Technology Inc.
Updated successfully and please reboot the system
imx8mp@adlink:~/Desktop/BMC_LEC-IMX8MP_1v6_1v0$
```

10. Once the update is complete, reboot the target system to complete the firmware
update process.

Note: Please use the **Recovery mode** to update the firmware only if the previous update process failed or you encountered an error during the update process, else only use the **Normal mode** to update the firmware.