NetCommWireless

Firmware release notes

NTC-140-02 – 4G M2M Router

Please note: This document is subject to change without notice.

DOCUMENT VERSION	DATE
1.0 Initial document release	5 June 2014
1.1 Updated for firmware version 2.0.31.3	20 July 2016
1.2 Updated for firmware version 2.0.60.5	25 September 2018
1.3 Updated with an additional fix in 2.0.60.5	3 October 2018

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Release information

ITEM	DETAILS
Product code	NTC-140-02
Hardware version	v1.3
Router firmware version	2.0.60.5
Module firmware version	05.05.58.00
Beta/Official	Official
Firmware file name	ntc_140_2.0.60.5.cdi MD5: 39ec148e7c9ce0a991d1f4e114241f32
Date	25 September 2018

Release history

v2.0.60.5

Enhancements

- Improved security of the device (TT#24700)
- Corrections to Data stream endpoint descriptions in User Guide (TT#24755)
- Updated embedded User Guide (TT#24773)
- Fixed an issue with the Google maps GUI (TT#24599)
- Fixed an issue with Pull up voltage setting not persisting after reboot if it was set to 8.2V (TT#24152)

v2.0.31.3

Changes/New features

- None.

Enhancements

- Updated toolchain to gcc 4.9.3 and glibc 2.23.
- Fixed an issue where a PPPoE connection could not be established when "Forward WAN IP" is enabled.
- Fixed an issue where the PPTP verbose button did not work under certain scenarios.
- Updated iptables to remove WiFi Hotspot and Isolation rules.
- Fixed a PPTP connection status issue on the web user interface where the status is not updated if the router is rebooted.
- Fixed a cosmetic issue with the firmware upgrade log display.

v2.0.31.2

Changes/New features

- None.

Enhancements

- Network connection enhancements
- Cosmetic enhancements

v2.0.31.1 (Initial release)

Upgrading the router firmware

The firmware update process must be completed in the order described below. Please follow the instructions carefully.

> Note: In order to perform a firmware update, you must be logged into the router with the root manager account. Refer to the "Advanced configuration" section of the User Guide for details.

To update the NTC-140-02 router's firmware:

1. Connect one end of the RJ45 (Ethernet cable) to the LAN port of the NTC-140-02 router and the other end to the Ethernet port of your computer.

2. Connect your power source (not included in the package) to the Molex connector of the NTC-140-02 router and plug it into an available wall socket. Wait approximately 1 minute for the router to start up.

3. Extract the firmware image (.cdi) from the zip archive to a location on your computer.

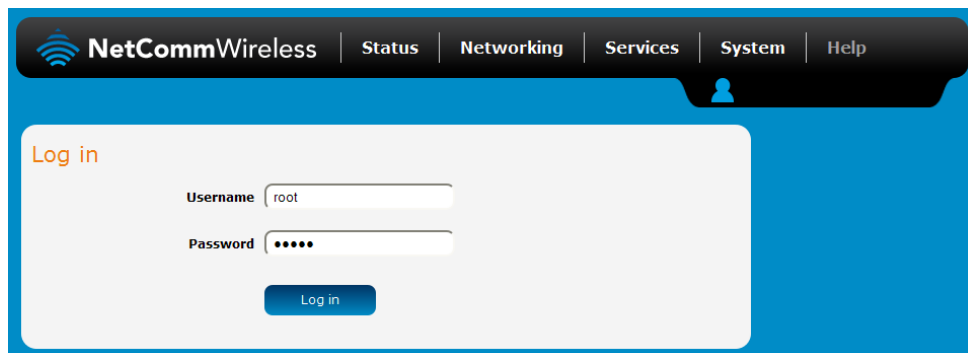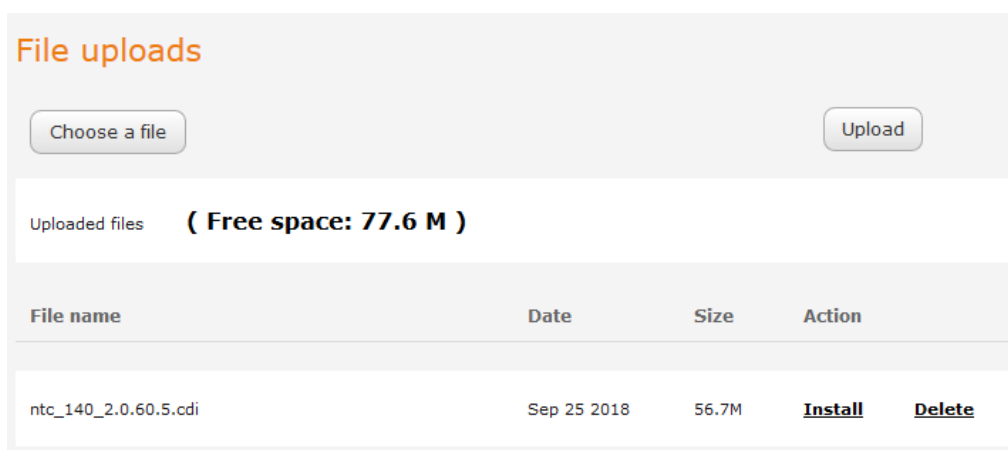4. Open a web browser and navigate to http://192.168.1.1 or http://my.router/

5. In the Username field, enter **root** and in the Password field, enter **admin** then click the **Log in** button.

6. Select the **System** item from the top menu bar, select the **System configuration** item from the menu on the left and then select the **Upload** menu item.

7. Under the **File uploads** section, click the **Choose a file** button. Locate the firmware file on your computer (for example, ntc_140_2.0.60.5.cdi) and click **Open**.

8. Click the **Upload** button. The firmware file is uploaded to the router.

9. Next to the firmware file (for example, ntc_140_2.0.60.5.cdi), click the **Install** link and then click **OK** on the confirmation pop-up window. The recovery image is updated and when it is complete the router displays **"The firmware update was successful"** and then returns to the list of uploaded files.

> Note: Do not remove the power when the router's LEDs are flashing as this is when the firmware update is in process.

```
Writing data to block 20 at offset 0x280000
Writing data to block 21 at offset 0x2a0000
Writing data to block 22 at offset 0x2c0000
Done
Done
Skipping install scripts, nothing to do
Skipping post-install, nothing to do
Done
The firmware update was successful Reboot to main system...
Estimated time remaining: 49 seconds
Estimated time remaining: 44 seconds
Estimated time remaining: 39 seconds
Estimated time remaining: 34 seconds
Estimated time remaining: 29 seconds
Estimated time remaining: 24 seconds
Estimated time remaining: 19 seconds
Estimated time remaining: 14 seconds
Estimated time remaining: 9 seconds
Estimated time remaining: 4 seconds
Redirecting you to the Status page
```

Close

10. Log in to the router once more and navigate to the Status page. Confirm that the Firmware version field shows the updated firmware version number.

System information

System up time	Device version	Cellular module
00:02:13	**Hardware version** 1.3	**Model** MC7304
	Serial number 173999153200010	**Module firmware** 05.05.67.00
	Firmware version V2.0.60.5	**IMEI** 354143069900090

The firmware upgrade is complete.

Upgrading the module firmware

We recommend using the latest module firmware version. You can determine the module firmware by examining the **Module firmware** field on the router's status page. If the module firmware version does not match the one provided in the latest firmware package, follow the instructions below to upgrade the module firmware.

⚠️ Note:
- Do not rename these files as this will cause the upgrade to fail.
- Before upgrading the module firmware, ensure that you have upgraded the router firmware to the latest version.

To upgrade the module firmware:

1. Log in to the router by performing steps 1-6 from the Upgrading the router firmware section of this guide.

2. Under the **File uploads** section, click the **Choose a file** button. Locate the module firmware file (.cwe extension) on your computer and click **Open**.

3. Click the **Upload** button. The file is uploaded to the router.

4. Repeat steps 2 and 3 for the **.nvu** file.

File uploads

Choose a file				Upload

Uploaded files   **(Free space: 93.2 M)**

File name	Date	Size	Action	
SWI9X15C_05.05.58.00.cwe	Jan 5 2016	33.2M	**Install**	**Delete**
SWI9X15C_05.05.58.00_Telstra_005.021_000.nvu	Jan 5 2016	43.3K	**Install**	**Delete**

5. Next to the **.cwe** file, click the Install link and then click **OK** on the confirmation pop-up window. The module firmware is updated and when it is complete the router displays **"The installation was successful"** and then returns to the list of uploaded files.

ℹ️ Note: It is not necessary to click the Install link for the .nvu file. The .nvu file is used as part of the .cwe installation.

```
. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
  Firmware Download Completed
  Device Ready
  INFO: Firmware Upgrade successful!!!
  10. remove upgrade directory
  11. terminate slqssdk
  INFO: Device Type( 0,1,2->9x00,9x15,G3K ): 1
  Downloading Firmware. . . . . . . . . . . . . . . . . . . . . .
. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
  Firmware Download Completed
  Device Ready
  INFO: Firmware Upgrade successful!!!
  10. remove upgrade directory
  11. terminate slqssdk
  12. switch to operation mode
  13. restore WIFI
  14. enable supervisor (system watchdogs)
  Done.
  The installation was successful
```

Close

6. Click the **Status** menu to return to the Status page. Under the System information section, confirm that the module firmware version displays the correct version of the module firmware.

The module firmware upgrade is complete.