

4G WiFi M2M Router (NTC-140W)



Firmware Release Notes

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1.2 Updated for v2.0.16.1	14 July 2014
1.3 Updated for v2.0.16.2	23 July 2014
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2.0 Updated for v2.0.23.8	11 March 2016
2.1 Updated for v2.0.23.12	1 July 2016
2.2 Updated for v2.0.23.18	5 December 2017

Release information

ITEM	DETAILS
Product Code	NTC-140W-01, NTC-140W-02
Hardware Version	v1.1
Router Firmware Version	2.0.23.18
Module Firmware Version	05.05.58.00
Beta/Official	Official
Firmware file name	ntc_140wx_2.0.23.18.cdi MD5: 85b6cc0ab365caa3117f08a6ad9666b2
Date	5 December 2017

Upgrade / Downgrade instructions

Please refer to the accompanying “**NTC-140W Firmware Upgrade Guide**” file for details on upgrading the router firmware and module firmware.

Release history

v2.0.23.18

New Features

- Added “value:LEDPowerOffTimer” to the TR-069 data model.

Enhancements

- Implemented a fix for the Key Reinstallation Attack (KRACK) WPA2 WiFi vulnerability.
- Improved performance of RSA key connections over an IPSec tunnel.
- Updated User Guide embedded in device firmware.

v2.0.23.12

New Features

- None.

Enhancements

- Various security fixes to prevent unauthorized access and denial of service attacks.
- Corrected WiFi LED display color when WiFi is enabled in Client mode.

v2.0.23.5

Changes/New features

- None.

Enhancements

- Stability of firmware upgrade process via TR-069 has been improved.
- Fixed issue of WiFi crashing when special characters !@#%&*() were used in the pre-shared key field.
- OpenVPN version updated to 2.3.6. Fixes vulnerability to DoS attack in OpenVPN version 2.1.4.
- Fixed issue when ACS URL is defined as IP address on TR-069, InternetGatewayDevice.ManagementServer.ConnectionRequestURL is not correctly determined.

v2.0.23.4

Changes/New features

- Added configuration option to perform PRL update without updating device configuration for devices on networks supporting the Open Mobile Alliance provisioning method.
- Added support for key-hash message authentication code (HMAC) to OpenVPN Server settings.
- Added support to route all traffic via IPSec VPN. This can be achieved by entering 0.0.0.0/0 in the Remote LAN address field and on the peer, entering 0.0.0.0 as the Local LAN and Local LAN subnet address.

Enhancements

- Fixed an issue where the router in wireless client mode would connect to an Access Point even if the Network Authentication and WPA Encryption fields contained a mismatch but had the correct SSID and Pre-shared key.
- Fixed a memory leak in the event-notifier process.
- Fixed the TR-069 feature so that it works over any WAN interface and not just WWAN.
- Fixed SMS diagnostic issue where get/set download.timeout and get/set install.timeout did not work.
- Fixed an issue in Event notification log where “Web UI login failure” Event ID was incorrect.
- Fixed an issue in Event notification log where “WiFi clients number changed” was showing the incorrect number of connected clients.
- Fixed an issue where WWAN connection would go down when 3 SSIDs were configured and a 4th and 5th SSID were enabled.
- Fixed an OpenVPN client issue where a client using the server generated certificate could not authenticate with the server.
- Fixed an issue where wifihotspot.html page was different when viewed over https connection.
- Fixed an issue where a client could not connect to an AP on SSID2 when a WiFi hotspot was enabled for SSID2.
- Fixed an issue where hotspot is enabled and firewall settings are added, then hotspot is disabled, the firewall settings are removed.
- Fixed issue where IO pin could not be configured as a digital input or digital output.
- Fixed an issue where NetComm Ethernet (ECM) and serial (ACM) driver installation would fail because drivers were not digitally signed.
- Fixed an issue where SMS could not be sent over IMS for certain networks.
- Fixed an issue where SMS could not be sent if the router was booted up with SIM that was locked and then unlocked by entering the PIN.

Cosmetic enhancements

- Renamed “Deactivate” button to “Deactivate/RTN” on devices that support the Open Mobile Alliance provisioning method.
- Removed SMS Destination Index numbers from the user interface to avoid confusion.
- Updated code that calculates the Ec/Io value to reflect the correct value.
- Renamed “Fail count” on WAN failover configuration page to “Fail/success count”

v2.0.23.2

Changes/New features

- Added sender address and CC field to Email settings.
- Added support in the web UI to allow WiFi bandwidth (20/40 Mhz) selection.
- Added number of SMS messages received in the basic status page.
- Added a warning when AP Hotspot functionality is enabled while AP radio is OFF.
- Added support for DDNS feature for all WAN failover interfaces.
- Added event notification support for status of SD card, WAN failover and Wireless clients.

Enhancements

- Fixed WiFi AUTO selection option for Frequency/Channel where it always selected channel 1.
- Fixed SMS forwarding with international number format.
- Fixed PPTP VPN client unable to ping the remote PPTP server.
- Fixed issue where the router may connect to WWAN even if APN is wrong.
- Fixed issue where router does not receive Ethernet RIP updates, hence does not update its routing table and advertise these routes.
- Fixed issue where Wireless AP may not restart after module firmware is updated and hence is not visible to clients.
- Updated some SNMP Object Identifiers for clarity.
- Refinement to the Data stream manager page: renamed ports for clarity and to allow user to change settings regardless of the ports continued existence.
- Fixed issue where WAN eth.0 interface may occasionally fail to detect the link is up after reboot.
- Fixed Wireless Client scan for SSID may occasionally return parsererror.
- Fixed issue where clients may not be able to connect to WiFi AP after Client mode loses connection to the remote AP.

Cosmetic enhancements

- Changed network authentication type naming to match in the AP and Client configuration.
- Removed AGPS update interval as AGPS is not supported.
- Added LTE frequency band on status page under current band.
- Removed PDP static IP option from web-UI as this feature is not supported.
- Refinement on the SIM Security page for Remember PIN, PIN Change options.
- APN profile usernames now display number of characters.
- Display SRP, RSRQ, TAC and PS status under the advanced status section of Status page.
- System information page renamed Board Version to Hardware version for clarity.
- SIM status in SIM Management page updated to reflect the same status as in the main status page.
- Ethernet Group under Ethernet LAN/WAN is renamed to Interface assignment to avoid confusion.

v2.0.20.4

Changes/New features

- Added Client-Initiated Device Configuration (CIDC) manual activation for carriers that support this.

Enhancements

- Fixed issue with manual operator band selection.
- Fixed issue where hotspot customization files were being deleted after reboot.
- Fixed issue where customized hotspot landing page settings must be saved twice to take effect.
- Fixed issue where WiFi SSID Broadcast button is disabled and becomes enabled again after unit is rebooted.

v2.0.20.3

Changes/New features

- Added CDMA support for NTC-140W-01.
- Added Event notification feature.
- Display_MEID, P-ESN, PRL, PRI version on Advanced status page.
- Added a new System log settings menu item and page and moved Log capture level, Non-volatile log and Remote syslog server configuration items to this page. Default system log is now set to "Notice".
- Added multiple SSID support with open source WiFi driver.
- Added SSID and client isolation to WiFi SSID settings.
- Added support for uploading Wireless AP hotspot landing page.
- Added warning message for remote administration settings.
- Improved GPS accuracy using QMI implementation.
- Added MAC filtering on/off switch.
- Lowered power consumption in low power mode by putting Ethernet PHY in low power mode and disabling WAN
- Added WiFi MAC address to the status page under WLAN AP status.
- Added check for maximum number of WiFi clients in AP and Hotspot mode to 127. Default maximum is set to 31.
- Changed default MTU size to 1428, except for certain network carriers where it may change after SIM detection.
- Added support for automatic detection of RAM size.

Enhancements

- Fixed a routing issue in cases where NAT and firewall are disabled and a static route added.
- Fixed issues with SWI module FW/PRI updates.
- Fixed issue with Remember PIN option
- Fixed DHCP relay on 3G/WAN interface.
- Update LED colour to amber when HSPA+ coverage is detected.
- Reworded "Independent" Ethernet group option to "Disable".
- Fixed issue where Ethernet interface configured as WAN required DNS server settings to be entered.
- Fixed an issue where recovery mode displayed different MAC address than the main firmware image.
- Fixed a data stream manager issue where a dropped client connection to a TCP server results in no further connections being allowed.
- Fixed verbose logging not working on WWAN interface.

Cosmetic enhancements

- Fixed cosmetic issue where SMS inbox refresh button disappeared.
- Fixed cosmetic issues with WWAN connection status.
- Fixed issue with PDP session end time displaying incorrectly.
- Fixed WLAN connection status not updating.
- Fixed cosmetic issue where incorrect link state of a USB Ethernet interface was displayed upon initial connection.
- Fixed cosmetic issue related to Status page WLAN information.
- Fixed cosmetic issue with formatting of the Upload page.
- Fixed cosmetic issue where recovery mode shows different upload date than the main image for files uploaded to the router.
- Fixed cosmetic issue where data connection profile name changed to wwan.0 after clicking save on the WAN failover page.
- Fixed cosmetic issue where WAN port IP address displays netmask when retrieving DHCP assigned IP.
- Removed duplicate Save button on SNMP page.
- Changed Edit button on AP basic page.
- Increased text box area for the "Internal terms of use" field in hotspot settings.

- Fixed cosmetic issues related to the Wireless Hotspot landing page.
- Moved SIM management menu item in the Wireless WAN sub menu.
- Fixed issue when PPPoE was enabled, the Event notification log page was blank.
- Added data usage disclaimer to user interface.

v2.0.16.4

Changes/New features

- User Guide PDF file embedded in the Help page.
- Updated timezone list to include missing standard timezones.
- Integrated open source WiFi driver with support for both AP and STA mode.

Enhancements

- Fixed issue where Built-in Ethernet WAN port does not create its default gateway.
- Fixed occasional failure in mounting USB storage devices.
- Fixed occasional issue where module may not be recognised upon power up.
- Fixed WiFi LED operation, but the fix is not applicable to the DVT units.
- Fixed issue where some internal processes may use incorrect time, as observed in log messages.
- Removed network access technology preference from Operator settings page. Applied a fix to maintain operator list visibility when switched back to Automatic mode.
- Open VPN page updated to display DH parameter status.
- Ethernet group status page updated to correctly show USB port's link status and also make Ethernet LAN interface visible.

v2.0.16.2

Changes/New features

- Added TR-069 support for u-boot.img file
- Reversed system.powersave.ignition rdb status reporting to keep it consistent with other NTC products

Enhancements

- Fixed: Module is sometimes not recognized on power up and does not recover unless rebooted.

v2.0.16.1

Changes/New features

- Introduced Storage and USB-OTG software support
- Enabled Data stream manager and PADD page
- Enabled Connect on Demand feature
- SIM management page added for devices that have dual SIM option.
- Telnet/SSH password is now set to **admin** by default.

Enhancements

- Fixed an issue related to system clock accuracy, where system clock was drifting significantly over time.
- Fixed PDP connection status reporting on the Web-UI.
- Fixed ignition polarity detection on the Power management page (floating wire will be considered low).
- Cosmetic edits on the following pages: Wireless Hotspot, WAN failover, Ethernet group, SNMP
- Added support for new regions for timezone settings.
- Moved Watchdogs menu to System page.
- Fixed web UI redirecting to the status page when clicking on other menu items.
- Fixed issue when Ethernet WAN interface configured as primary WAN with static IP, the default gateway would not work.

- Fixed low power mode feature and ignition detection not working
- Fixed phone module firmware upgrade not supported via Web UI

v2.0.10.4

Changes/New features

- None

Enhancements

- GPS found satellites but didn't connect to display coordinates.
- Display only the relevant version number for the Sierra Module FW version.

v2.0.10.3

Changes/New features

- None

Enhancements

- WLAN SSID remains hidden after factory reset
- Reset button does not work during boot up
- When using WiFi Client mode, the Status page shows both Client and AP status
- TR-069 initialization session failure

v2.0.8.0

Changes/New features

- None

Enhancements

- None