



**ADVANTECH**

## Release Notes

### Firmware 6.4.3




Advantech Czech s.r.o., Sokolska 71, 562 04 Usti nad Orlici, Czech Republic  
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## Abstract

This document encompasses the following key sections:

- **Firmware Update Instructions:** Guides users through the firmware update process to ensure a smooth and successful experience.
- **Description of New Features, Fixes, and Changes:** Provides detailed information about new features, enhancements, fixes for previous issues, and other significant changes included in the firmware update.
- **Known Issues Related to the Firmware Version:** Informs users about any existing issues or limitations with this firmware version, aiding in informed decision-making and preparation.

## Firmware Release Information

- **Version:** 6.4.3
- **Release Date:** August 16, 2024
-  **Compatibility and Distribution:**

Due to significant changes introduced in 6.4.0 update, extensive testing of the new firmware is strongly advised prior to its deployment in operational environments, when upgrading from version 6.3.x.

For comprehensive compatibility details and distribution guidelines, see the [Firmware Compatibility Chart](#) document published with the specific firmware version.

## Firmware and Product Documentation Notice

- **Firmware Versions in New Routers:** Not all new Advantech routers are shipped with this latest firmware release due to specific carrier or regional certifications. Check the [Firmware Compatibility Chart](#) document for the latest firmware information for your router model.
- **Router Configuration Information:** The most recent and detailed configuration information is available in the [Configuration Manual](#) for your router model.
- **Accessing Documents and Applications:** Visit the *Engineering Portal* at [icr.advantech.com](http://icr.advantech.com) for product-related documents, applications, and firmware updates.

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# **Part I.**

# **Firmware Update Instructions**

## General Update Instructions and Notices

### HTTPS Certificates:

- Following the release of firmware version 5.3.5, the router's HTTPS certificate format has been updated to enhance security measures. It is crucial to recognize that routers produced prior to this firmware version will not have their HTTPS certificates automatically updated during the firmware upgrade process.
- For manual HTTPS certificate updates, remove the existing certificate files found at `/etc/certs/https*` on the router. This action should be performed through an SSH connection. The certificates will be automatically regenerated in the new format upon the next reboot of the router.

## FirstNet Firmware Specific Notes

**Note:** The following notes are specific to *FirstNet* products (ICR-3241..**1ND** and ICR-4461..**1ND**) and apply starting from firmware version 6.3.2, unless indicated otherwise.

- **Administration User Account:** Access via the *root* user for web or SSH logins is disabled. Utilize the *admin* account instead. The router label contains a unique password.
- **Disabled User Scripts:** Scripts set up through the GUI are unsupported. Scripts will convert to a Router App in updates to firmware version 6.3.7 or later. Note: Scripts will be deleted when updating to firmware versions from 6.3.2 to 6.3.6.
- **Different Default Settings:** Default router settings have been changed to improve security, deviating from standard configurations.
- **No FTP Support:** FTP configuration is removed from the GUI.
- **No Telnet Support:** Telnet configuration is removed from the GUI.
- **WiFi Security:** Support for WEP, WPA1, and WPA2-TKIP security protocols is discontinued.
- **OpenVPN Security Level:** Security levels *0 - Weak* and *1 - Low* are not allowed.
- **HTTP Restrictions:** Only HTTPS access is allowed with a minimum of TLS version 1.2.
- **MTU Settings:** The default MTU is set to 1342 bytes.
- **SNMP Restrictions:** SNMP write access is disabled.
- **FirstNet Router App Changes:** Some functionalities previously in the *FirstNet* Router App are now embedded in the firmware, focusing the app on monitoring the security status of *FirstNet* routers.



## **Part II.**

# **Description of New Features, Changes, and Fixes**

## Fixed

### **5G NSA Detection**

Fixed 5G NSA technology detection and carrier selection on ICR-4[12]71 devices with Telit FN990.

### **Initial IP Address**

Fixed deletion of a backup partition after manufacturing. This may have caused manufactured routers to have a wrong initial IP address (192.168.1.101-104).

## **Part III.**

# **Known Issues Related to the Firmware Version**



## Firmware Update – Unexpected Filename

There is a known issue that occurs if the filename of the firmware intended for your router has been altered. This can affect both manual firmware updates and the Automatic Update feature. When this issue arises, the following warning message is displayed: *"You are trying to upload file 'xx.bin' but 'yy.bin' is expected. Are you sure to continue?"* To resolve this issue, please follow the instructions provided in Part I - [Firmware Update Instructions](#) of this document.

## WiFi Configuration – Lost After Firmware Downgrade

Be aware that if you downgrade your firmware to a version earlier than 6.2.0, all existing WiFi configurations will be completely lost. It is crucial to back up your configuration before proceeding with such a downgrade.

## ICR-3200 – Country Code for WiFi

In the initial firmware version for the ICR-3200 WiFi module, there is a limitation regarding the setting of the country code. Any modifications to the country code made on the configuration page will not take effect. This is because the country code for the WiFi module is pre-set during the manufacturing process, based on the intended region of product distribution.

## SmartStart SL302 – Cellular Network Authentication

For the SmartStart SL302 router equipped with the Telit LE910-NA1 cellular module firmware version 20.00.522, there is a known limitation: It is not possible to use a username and password for authentication when connecting to the Mobile WAN network. This restriction specifically affects settings configured on the *Mobile WAN Configuration* page.

To check the firmware version of your cellular module, visit the *Mobile WAN Status* page in the router's web GUI, where it is listed under the *Mobile Network Information* section.