

ADVANTECH



Firmware 6.3.10

RELEASE NOTES

Abstract

This document describes:

- Firmware update instructions.
- Description of all new features, fixes, and other changes implemented in the firmware.
- Known issues related to a firmware version

Firmware Details

- **Firmware version:** 6.3.10
- **Release date:** May 5, 2023
- **Compatibility:** Advantech routers; see the [Firmware Distribution Overview](#)

Please note that not all new Advantech routers are produced and shipped with the latest release of the firmware. The reason for this is usually an existing certification valid for a specific carrier or a region. For more information about the latest version of the firmware for your router, see the *Firmware Distribution Overview* document.



For current and detailed information about the router configuration see the latest version of the [Configuration Manual](#) for your router.

Product-related documents and applications including the firmware can be obtained on *Engineering Portal* at icr.advantech.cz address.

Part I

Firmware Update Instructions

General Update Instructions and Notices

HTTPS certificates: The HTTPS certificate format in the router was updated in FW 5.3.5 to improve the security. Existing HTTPS certificates on previously manufactured routers will not automatically be updated with the firmware update! It is possible to update the HTTPS certificates by deleting the files within `/etc/certs/https*` in the router (e.g. via SSH). The certificates will be re-created automatically during the router's next start.

Specific Update Instructions

New filename: If the firmware filename for your router was changed, as listed in Table 1, you will get an issue during the manual or automatic firmware update. The following warning message will appear: *You are trying to upload file "xx.bin" but "yy.bin" is expected. Are you sure to continue?*

To go ahead with the **manual** firmware update, check the table below for details about recent firmware filename changes and make sure you have the correct firmware file for your router. Now, you can confirm the displayed warning message.

To go ahead with the **automatic** firmware update, rename the new firmware file (*.bin and *.ver) to the filename valid before the filename change. This should allow the router to pass through the process of automatic firmware update. Next time, the automatic firmware update feature will work as expected with no need to rename the file.

| Router model | FW ver. | New filename | Original filename |
|--|---------|------------------------|------------------------|
| SmartMotion ST352 SmartMotion ST355 | 6.0.2 | SPECTRE-v3T-LTE.bin | BIVIAS-v3LL.bin |
| SmartStart SL302 | 6.0.3 | SPECTRE-v3L-LTE-US.bin | SPECTRE-v3L-LTE-AT.bin |

Table 1: Recent Firmware Filename Changes

Updating Firmware Version Earlier than 5.3.0



It is necessary to follow specific update instructions below only if you are updating from firmware older than 5.3.0.

Due to a bug in the firewall (now fixed) when a WAN device is part of a bridged interface, caution should be taken when updating in the following case:

Condition: When a WAN device is part of a bridged interface, access to that WAN device (HTTPS, SSH) is always granted regardless of configuration.

Problem: If this is your configuration, it is highly likely that you are not aware of this, so the undesired effect of the bridge firewall fix may make the router inaccessible.

Recommended Action: Enable access to both, the web and ssh services, before updating if you want to keep the current behavior (access to the WAN interface). This can be done on the *NAT* page in the *Configuration* section of the router's Web interface.

Change the root's password:

It is necessary to change the password of the *root* user when updating to the firmware version 5.3.0 or newer. The reason for this is an update of the authentication system (encryption algorithm *crypt* was changed to *MD5*; passwords are now stored in the */etc/shadow* file instead of */etc/passwd* file). The change of the password is required before setting up the remote access on the *NAT Configuration* page.

Please note that when downgrading from 5.3.0+ to an earlier firmware version, the password of the *root* user is reset to the default one, which is *root*.

FirstNet Firmware Specific Updates

Note: The changes described below are valid for *FirstNet* products (**ICR-3241-1ND** and **ICR-3241W-1ND**) only and have been made in firmware version 6.3.2 unless otherwise noted.

- **Administration User Account** – The *root* user is disabled for web or SSH logins. Use the *admin* user account instead. See the router label for a unique password.
- **Disabled User Scripts** – User scripts, which could have been configured in the GUI before, are not supported anymore. Existing scripts will be converted automatically to a Router App only during a firmware update to version 6.3.7 or higher. Note that user scripts will be deleted when the firmware is upgraded to versions 6.3.2 through 6.3.6.
- **Different Default Settings** – The router's default setting is different from the standard setting due to higher security requirements.
- **No FTP Support** – There is no FTP configuration in the GUI.
- **No Telnet Support** – There is no Telnet configuration in the GUI.
- **WiFi Security** – Configuration of WEP, WPA1, and WPA2-TKIP WiFi security protocols are not available.
- **HTTP Restrictions** – Only HTTPs access can be configured. The minimal configurable TLS (Transport Layer Security) is TLS 1.2.
- **MTU Settings** – The MTU (Maximum Transmission Unit) is configured to 1342 bytes.
- **SNMP Restrictions** – SNMP write access is disabled.
- **FirstNet Router App Changes** – Some features implemented in the *FirstNet* Router App are now supported by the router firmware. The *FirstNet* Router App is dedicated to reviewing the required security status of *FirstNet* routers.

Part II
Changelog



Legend: Affected products are marked as shown below for every changelog item:

Affected product Not affected product

Fixed RTC Update

SPECTRE RT ER75i v2 UR5i v2 XR5i v2 LR77 v2 CR10 v2 UR5i v2L RR75i v2 LR77 v2L XR5i v2E
SmartFlex SR300 SmartFlex SR303 SmartFlex SR304 SmartFlex SR305 SmartFlex SR306 SmartFlex SR307
SmartFlex SR308 SmartFlex SR309 SmartFlex SR310 SmartStart SL302 SmartStart SL304 SmartStart SL305
SmartStart SL306 SmartMotion ST352 SmartMotion ST355 ICR-3201 ICR-3211 ICR-323x ICR-3241
ICR-2031 ICR-2041 ICR-2412 ICR-243x ICR-2441 ICR-2531 ICR-2631 ICR-2701 ICR-2734 ICR-2834
ICR-3831 ICR-4401 ICR-4434 ICR-4453

Since firmware version 6.3.8, the NTP service did not update the RTC clock. We have fixed this issue in this new firmware release.

Enhanced Licenses List

SPECTRE RT ER75i v2 UR5i v2 XR5i v2 LR77 v2 CR10 v2 UR5i v2L RR75i v2 LR77 v2L XR5i v2E
SmartFlex SR300 SmartFlex SR303 SmartFlex SR304 SmartFlex SR305 SmartFlex SR306 SmartFlex SR307
SmartFlex SR308 SmartFlex SR309 SmartFlex SR310 SmartStart SL302 SmartStart SL304 SmartStart SL305
SmartStart SL306 SmartMotion ST352 SmartMotion ST355 ICR-3201 ICR-3211 ICR-323x ICR-3241
ICR-2031 ICR-2041 ICR-2412 ICR-243x ICR-2441 ICR-2531 ICR-2631 ICR-2701 ICR-2734 ICR-2834
ICR-3831 ICR-4401 ICR-4434 ICR-4453

The license list, which is available in the GUI under *Status -> General -> Licenses*, was updated and enhanced.

Enhanced PoE Configuration

| | | | | | | | | | |
|------------------|-------------------|-------------------|------------------|------------------|------------------|----------|----------|----------|----------|
| SPECTRE RT | ER75i v2 | UR5i v2 | XR5i v2 | LR77 v2 | CR10 v2 | UR5i v2L | RR75i v2 | LR77 v2L | XR5i v2E |
| SmartFlex SR300 | SmartFlex SR303 | SmartFlex SR304 | SmartFlex SR305 | SmartFlex SR306 | SmartFlex SR307 | | | | |
| SmartFlex SR308 | SmartFlex SR309 | SmartFlex SR310 | SmartStart SL302 | SmartStart SL304 | SmartStart SL305 | | | | |
| SmartStart SL306 | SmartMotion ST352 | SmartMotion ST355 | ICR-3201 | ICR-3211 | ICR-323x | ICR-3241 | | | |
| ICR-2031 | ICR-2041 | ICR-2412 | ICR-243x | ICR-2441 | ICR-2531 | ICR-2631 | ICR-2701 | ICR-2734 | ICR-2834 |
| ICR-3831 | ICR-4401 | ICR-4434 | ICR-4453 | | | | | | |

We have enhanced the Ethernet GUI so that the PoE can be enabled/disabled individually for each of the four ETH0 ports.

Ethernet Configuration Fix

| | | | | | | | | | |
|------------------|-------------------|-------------------|------------------|------------------|------------------|----------|----------|----------|----------|
| SPECTRE RT | ER75i v2 | UR5i v2 | XR5i v2 | LR77 v2 | CR10 v2 | UR5i v2L | RR75i v2 | LR77 v2L | XR5i v2E |
| SmartFlex SR300 | SmartFlex SR303 | SmartFlex SR304 | SmartFlex SR305 | SmartFlex SR306 | SmartFlex SR307 | | | | |
| SmartFlex SR308 | SmartFlex SR309 | SmartFlex SR310 | SmartStart SL302 | SmartStart SL304 | SmartStart SL305 | | | | |
| SmartStart SL306 | SmartMotion ST352 | SmartMotion ST355 | ICR-3201 | ICR-3211 | ICR-323x | ICR-3241 | | | |
| ICR-2031 | ICR-2041 | ICR-2412 | ICR-243x | ICR-2441 | ICR-2531 | ICR-2631 | ICR-2701 | ICR-2734 | ICR-2834 |
| ICR-3831 | ICR-4401 | ICR-4434 | ICR-4453 | | | | | | |

We have fixed the ethernet configuration in the system to resolve an issue that may cause the DHCP server not to assign an IP address to the router.

PPPoE Fix

| | | | | | | | | | |
|------------------|-------------------|-------------------|------------------|------------------|------------------|----------|----------|----------|----------|
| SPECTRE RT | ER75i v2 | UR5i v2 | XR5i v2 | LR77 v2 | CR10 v2 | UR5i v2L | RR75i v2 | LR77 v2L | XR5i v2E |
| SmartFlex SR300 | SmartFlex SR303 | SmartFlex SR304 | SmartFlex SR305 | SmartFlex SR306 | SmartFlex SR307 | | | | |
| SmartFlex SR308 | SmartFlex SR309 | SmartFlex SR310 | SmartStart SL302 | SmartStart SL304 | SmartStart SL305 | | | | |
| SmartStart SL306 | SmartMotion ST352 | SmartMotion ST355 | ICR-3201 | ICR-3211 | ICR-323x | ICR-3241 | | | |
| ICR-2031 | ICR-2041 | ICR-2412 | ICR-243x | ICR-2441 | ICR-2531 | ICR-2631 | ICR-2701 | ICR-2734 | ICR-2834 |
| ICR-3831 | ICR-4401 | ICR-4434 | ICR-4453 | | | | | | |

The PPPoE connection may be interrupted if the Ethernet interface settings were modified after the PPPoE was built. We have addressed this in this firmware release.

CA Certificates Update

| | | | | | | | | | |
|------------------|-------------------|-------------------|------------------|------------------|------------------|----------|----------|----------|----------|
| SPECTRE RT | ER75i v2 | UR5i v2 | XR5i v2 | LR77 v2 | CR10 v2 | UR5i v2L | RR75i v2 | LR77 v2L | XR5i v2E |
| SmartFlex SR300 | SmartFlex SR303 | SmartFlex SR304 | SmartFlex SR305 | SmartFlex SR306 | SmartFlex SR307 | | | | |
| SmartFlex SR308 | SmartFlex SR309 | SmartFlex SR310 | SmartStart SL302 | SmartStart SL304 | SmartStart SL305 | | | | |
| SmartStart SL306 | SmartMotion ST352 | SmartMotion ST355 | ICR-3201 | ICR-3211 | ICR-323x | ICR-3241 | | | |
| ICR-2031 | ICR-2041 | ICR-2412 | ICR-243x | ICR-2441 | ICR-2531 | ICR-2631 | ICR-2701 | ICR-2734 | ICR-2834 |
| ICR-3831 | ICR-4401 | ICR-4434 | ICR-4453 | | | | | | |

Common CA (certificate authorities) certificates database was updated to version 20230311. These certificates allow SSL-based applications to check for the authenticity of SSL connections.

Fixed MWAN Connection Issue

| | | | | | | | | | |
|------------------|-------------------|-------------------|------------------|------------------|------------------|----------|----------|----------|----------|
| SPECTRE RT | ER75i v2 | UR5i v2 | XR5i v2 | LR77 v2 | CR10 v2 | UR5i v2L | RR75i v2 | LR77 v2L | XR5i v2E |
| SmartFlex SR300 | SmartFlex SR303 | SmartFlex SR304 | SmartFlex SR305 | SmartFlex SR306 | SmartFlex SR307 | | | | |
| SmartFlex SR308 | SmartFlex SR309 | SmartFlex SR310 | SmartStart SL302 | SmartStart SL304 | SmartStart SL305 | | | | |
| SmartStart SL306 | SmartMotion ST352 | SmartMotion ST355 | ICR-3201 | ICR-3211 | ICR-323x | ICR-3241 | | | |
| ICR-2031 | ICR-2041 | ICR-2412 | ICR-243x | ICR-2441 | ICR-2531 | ICR-2631 | ICR-2701 | ICR-2734 | ICR-2834 |
| ICR-3831 | ICR-4401 | ICR-4434 | ICR-4453 | | | | | | |

We have fixed an issue with the connection to the cellular network when configured to the IPv6 mode.

FirstNet Router Apps Warning

| | | | | | | | | | |
|------------------|-------------------|-------------------|------------------|------------------|------------------|----------|----------|----------|----------|
| SPECTRE RT | ER75i v2 | UR5i v2 | XR5i v2 | LR77 v2 | CR10 v2 | UR5i v2L | RR75i v2 | LR77 v2L | XR5i v2E |
| SmartFlex SR300 | SmartFlex SR303 | SmartFlex SR304 | SmartFlex SR305 | SmartFlex SR306 | SmartFlex SR307 | | | | |
| SmartFlex SR308 | SmartFlex SR309 | SmartFlex SR310 | SmartStart SL302 | SmartStart SL304 | SmartStart SL305 | | | | |
| SmartStart SL306 | SmartMotion ST352 | SmartMotion ST355 | ICR-3201 | ICR-3211 | ICR-323x | ICR-3241 | | | |
| ICR-2031 | ICR-2041 | ICR-2412 | ICR-243x | ICR-2441 | ICR-2531 | ICR-2631 | ICR-2701 | ICR-2734 | ICR-2834 |
| ICR-3831 | ICR-4401 | ICR-4434 | ICR-4453 | | | | | | |

We have added a warning message to the Router Apps GUI for the FirstNet routers (ICR-3241(W)-1ND). This message warns that installing a Route App may invalidate the FirstNet certification on the router.

Resolved GRE Keepalive

| | | | | | | | | | |
|------------------|-------------------|-------------------|------------------|------------------|------------------|----------|----------|----------|----------|
| SPECTRE RT | ER75i v2 | UR5i v2 | XR5i v2 | LR77 v2 | CR10 v2 | UR5i v2L | RR75i v2 | LR77 v2L | XR5i v2E |
| SmartFlex SR300 | SmartFlex SR303 | SmartFlex SR304 | SmartFlex SR305 | SmartFlex SR306 | SmartFlex SR307 | | | | |
| SmartFlex SR308 | SmartFlex SR309 | SmartFlex SR310 | SmartStart SL302 | SmartStart SL304 | SmartStart SL305 | | | | |
| SmartStart SL306 | SmartMotion ST352 | SmartMotion ST355 | ICR-3201 | ICR-3211 | ICR-323x | ICR-3241 | | | |
| ICR-2031 | ICR-2041 | ICR-2412 | ICR-243x | ICR-2441 | ICR-2531 | ICR-2631 | ICR-2701 | ICR-2734 | ICR-2834 |
| ICR-3831 | ICR-4401 | ICR-4434 | ICR-4453 | | | | | | |

We have resolved the GRE keepalive mechanism for GRE keepalive packets generated by a CISCO device. We have enabled local packets with a local source address on all GRE interfaces to support it.

Fixed System Log Rendering

| | | | | | | | | | |
|------------------|-------------------|-------------------|------------------|------------------|------------------|----------|----------|----------|----------|
| SPECTRE RT | ER75i v2 | UR5i v2 | XR5i v2 | LR77 v2 | CR10 v2 | UR5i v2L | RR75i v2 | LR77 v2L | XR5i v2E |
| SmartFlex SR300 | SmartFlex SR303 | SmartFlex SR304 | SmartFlex SR305 | SmartFlex SR306 | SmartFlex SR307 | | | | |
| SmartFlex SR308 | SmartFlex SR309 | SmartFlex SR310 | SmartStart SL302 | SmartStart SL304 | SmartStart SL305 | | | | |
| SmartStart SL306 | SmartMotion ST352 | SmartMotion ST355 | ICR-3201 | ICR-3211 | ICR-323x | ICR-3241 | | | |
| ICR-2031 | ICR-2041 | ICR-2412 | ICR-243x | ICR-2441 | ICR-2531 | ICR-2631 | ICR-2701 | ICR-2734 | ICR-2834 |
| ICR-3831 | ICR-4401 | ICR-4434 | ICR-4453 | | | | | | |

Since the system log is updated every second, if the refresh feature is enabled, it is impossible to select and copy a part of the log. Therefore, we have changed this behavior to only update the screen if there is something new to upload.

Replaced Watchdog Driver

| | | | | | | | | | |
|------------------|-------------------|-------------------|------------------|------------------|------------------|----------|----------|----------|----------|
| SPECTRE RT | ER75i v2 | UR5i v2 | XR5i v2 | LR77 v2 | CR10 v2 | UR5i v2L | RR75i v2 | LR77 v2L | XR5i v2E |
| SmartFlex SR300 | SmartFlex SR303 | SmartFlex SR304 | SmartFlex SR305 | SmartFlex SR306 | SmartFlex SR307 | | | | |
| SmartFlex SR308 | SmartFlex SR309 | SmartFlex SR310 | SmartStart SL302 | SmartStart SL304 | SmartStart SL305 | | | | |
| SmartStart SL306 | SmartMotion ST352 | SmartMotion ST355 | ICR-3201 | ICR-3211 | ICR-323x | ICR-3241 | | | |
| ICR-2031 | ICR-2041 | ICR-2412 | ICR-243x | ICR-2441 | ICR-2531 | ICR-2631 | ICR-2701 | ICR-2734 | ICR-2834 |
| ICR-3831 | ICR-4401 | ICR-4434 | ICR-4453 | | | | | | |

We have replaced the watchdog driver. This system change should have no user impact.

Replaced Ethernet Driver

| | | | | | | | | | |
|------------------|-------------------|-------------------|------------------|------------------|------------------|----------|----------|----------|----------|
| SPECTRE RT | ER75i v2 | UR5i v2 | XR5i v2 | LR77 v2 | CR10 v2 | UR5i v2L | RR75i v2 | LR77 v2L | XR5i v2E |
| SmartFlex SR300 | SmartFlex SR303 | SmartFlex SR304 | SmartFlex SR305 | SmartFlex SR306 | SmartFlex SR307 | | | | |
| SmartFlex SR308 | SmartFlex SR309 | SmartFlex SR310 | SmartStart SL302 | SmartStart SL304 | SmartStart SL305 | | | | |
| SmartStart SL306 | SmartMotion ST352 | SmartMotion ST355 | ICR-3201 | ICR-3211 | ICR-323x | ICR-3241 | | | |
| ICR-2031 | ICR-2041 | ICR-2412 | ICR-243x | ICR-2441 | ICR-2531 | ICR-2631 | ICR-2701 | ICR-2734 | ICR-2834 |
| ICR-3831 | ICR-4401 | ICR-4434 | ICR-4453 | | | | | | |

We have replaced the Ethernet driver with the DP83848 National driver. This system change should have no user impact.

Fixed WiFi Configuration

| | | | | | | | | | |
|------------------|-------------------|-------------------|------------------|------------------|------------------|----------|----------|----------|----------|
| SPECTRE RT | ER75i v2 | UR5i v2 | XR5i v2 | LR77 v2 | CR10 v2 | UR5i v2L | RR75i v2 | LR77 v2L | XR5i v2E |
| SmartFlex SR300 | SmartFlex SR303 | SmartFlex SR304 | SmartFlex SR305 | SmartFlex SR306 | SmartFlex SR307 | | | | |
| SmartFlex SR308 | SmartFlex SR309 | SmartFlex SR310 | SmartStart SL302 | SmartStart SL304 | SmartStart SL305 | | | | |
| SmartStart SL306 | SmartMotion ST352 | SmartMotion ST355 | ICR-3201 | ICR-3211 | ICR-323x | ICR-3241 | | | |
| ICR-2031 | ICR-2041 | ICR-2412 | ICR-243x | ICR-2441 | ICR-2531 | ICR-2631 | ICR-2701 | ICR-2734 | ICR-2834 |
| ICR-3831 | ICR-4401 | ICR-4434 | ICR-4453 | | | | | | |

We have fixed the default WiFi configuration, which does not match the available options. This issue was related to the FirstNet routers (ICR-3241(W)-1ND).

DAD Configuration

| | | | | | | | | | |
|------------------|-------------------|-------------------|------------------|------------------|------------------|----------|----------|----------|----------|
| SPECTRE RT | ER75i v2 | UR5i v2 | XR5i v2 | LR77 v2 | CR10 v2 | UR5i v2L | RR75i v2 | LR77 v2L | XR5i v2E |
| SmartFlex SR300 | SmartFlex SR303 | SmartFlex SR304 | SmartFlex SR305 | SmartFlex SR306 | SmartFlex SR307 | | | | |
| SmartFlex SR308 | SmartFlex SR309 | SmartFlex SR310 | SmartStart SL302 | SmartStart SL304 | SmartStart SL305 | | | | |
| SmartStart SL306 | SmartMotion ST352 | SmartMotion ST355 | ICR-3201 | ICR-3211 | ICR-323x | ICR-3241 | | | |
| ICR-2031 | ICR-2041 | ICR-2412 | ICR-243x | ICR-2441 | ICR-2531 | ICR-2631 | ICR-2701 | ICR-2734 | ICR-2834 |
| ICR-3831 | ICR-4401 | ICR-4434 | ICR-4453 | | | | | | |

We have changed the kernel's IPv6 DAD (Duplicate Address Detection) configuration.

Fixed WiFi AP Authentication

| | | | | | | | | | | | | | | | | |
|------------------|-------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|----------|----------|----------|----------|----------|
| SPECTRE RT | ER75i v2 | UR5i v2 | XR5i v2 | LR77 v2 | CR10 v2 | UR5i v2L | RR75i v2 | LR77 v2L | XR5i v2E | | | | | | | |
| SmartFlex SR300 | SmartFlex SR303 | SmartFlex SR304 | SmartFlex SR305 | SmartFlex SR306 | SmartFlex SR307 | SmartFlex SR308 | SmartFlex SR309 | SmartFlex SR310 | SmartStart SL302 | SmartStart SL304 | SmartStart SL305 | | | | | |
| SmartStart SL306 | SmartMotion ST352 | SmartMotion ST355 | ICR-3201 | ICR-3211 | ICR-323x | ICR-3241 | ICR-2031 | ICR-2041 | ICR-2412 | ICR-243x | ICR-2441 | ICR-2531 | ICR-2631 | ICR-2701 | ICR-2734 | ICR-2834 |
| ICR-3831 | ICR-4401 | ICR-4434 | ICR-4453 | | | | | | | | | | | | | |

We fixed a WiFi AP connection issue when the AP was not responding to authentication.

Upgraded BusyBox Software

| | | | | | | | | | | | | | | | | |
|------------------|-------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|----------|----------|----------|----------|----------|
| SPECTRE RT | ER75i v2 | UR5i v2 | XR5i v2 | LR77 v2 | CR10 v2 | UR5i v2L | RR75i v2 | LR77 v2L | XR5i v2E | | | | | | | |
| SmartFlex SR300 | SmartFlex SR303 | SmartFlex SR304 | SmartFlex SR305 | SmartFlex SR306 | SmartFlex SR307 | SmartFlex SR308 | SmartFlex SR309 | SmartFlex SR310 | SmartStart SL302 | SmartStart SL304 | SmartStart SL305 | | | | | |
| SmartStart SL306 | SmartMotion ST352 | SmartMotion ST355 | ICR-3201 | ICR-3211 | ICR-323x | ICR-3241 | ICR-2031 | ICR-2041 | ICR-2412 | ICR-243x | ICR-2441 | ICR-2531 | ICR-2631 | ICR-2701 | ICR-2734 | ICR-2834 |
| ICR-3831 | ICR-4401 | ICR-4434 | ICR-4453 | | | | | | | | | | | | | |

We have updated the *BusyBox* software suite from version 1.34.1 to version 1.36.0. For more details about this release, [this link](#).

Fixed tc Program

| | | | | | | | | | | | | | | | | |
|------------------|-------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|----------|----------|----------|----------|----------|
| SPECTRE RT | ER75i v2 | UR5i v2 | XR5i v2 | LR77 v2 | CR10 v2 | UR5i v2L | RR75i v2 | LR77 v2L | XR5i v2E | | | | | | | |
| SmartFlex SR300 | SmartFlex SR303 | SmartFlex SR304 | SmartFlex SR305 | SmartFlex SR306 | SmartFlex SR307 | SmartFlex SR308 | SmartFlex SR309 | SmartFlex SR310 | SmartStart SL302 | SmartStart SL304 | SmartStart SL305 | | | | | |
| SmartStart SL306 | SmartMotion ST352 | SmartMotion ST355 | ICR-3201 | ICR-3211 | ICR-323x | ICR-3241 | ICR-2031 | ICR-2041 | ICR-2412 | ICR-243x | ICR-2441 | ICR-2531 | ICR-2631 | ICR-2701 | ICR-2734 | ICR-2834 |
| ICR-3831 | ICR-4401 | ICR-4434 | ICR-4453 | | | | | | | | | | | | | |

We have fixed an error when executing the *tc* program. This program is a powerful tool for manipulating and displaying network traffic control settings on Linux systems.

Fixed totd Software

| | | | | | | | | | |
|------------------|-------------------|-------------------|------------------|------------------|------------------|----------|----------|----------|----------|
| SPECTRE RT | ER75i v2 | UR5i v2 | XR5i v2 | LR77 v2 | CR10 v2 | UR5i v2L | RR75i v2 | LR77 v2L | XR5i v2E |
| SmartFlex SR300 | SmartFlex SR303 | SmartFlex SR304 | SmartFlex SR305 | SmartFlex SR306 | SmartFlex SR307 | | | | |
| SmartFlex SR308 | SmartFlex SR309 | SmartFlex SR310 | SmartStart SL302 | SmartStart SL304 | SmartStart SL305 | | | | |
| SmartStart SL306 | SmartMotion ST352 | SmartMotion ST355 | ICR-3201 | ICR-3211 | ICR-323x | ICR-3241 | | | |
| ICR-2031 | ICR-2041 | ICR-2412 | ICR-243x | ICR-2441 | ICR-2531 | ICR-2631 | ICR-2701 | ICR-2734 | ICR-2834 |
| ICR-3831 | ICR-4401 | ICR-4434 | ICR-4453 | | | | | | |

The current version of the `totd` software, a small DNS proxy nameserver, was vulnerable to cache poisoning, as stated in [CVE-2022-34294](#) (critical). We have implemented the port randomization feature to this software to fix this security issue.

Updated curl Program

| | | | | | | | | | |
|------------------|-------------------|-------------------|------------------|------------------|------------------|----------|----------|----------|----------|
| SPECTRE RT | ER75i v2 | UR5i v2 | XR5i v2 | LR77 v2 | CR10 v2 | UR5i v2L | RR75i v2 | LR77 v2L | XR5i v2E |
| SmartFlex SR300 | SmartFlex SR303 | SmartFlex SR304 | SmartFlex SR305 | SmartFlex SR306 | SmartFlex SR307 | | | | |
| SmartFlex SR308 | SmartFlex SR309 | SmartFlex SR310 | SmartStart SL302 | SmartStart SL304 | SmartStart SL305 | | | | |
| SmartStart SL306 | SmartMotion ST352 | SmartMotion ST355 | ICR-3201 | ICR-3211 | ICR-323x | ICR-3241 | | | |
| ICR-2031 | ICR-2041 | ICR-2412 | ICR-243x | ICR-2441 | ICR-2531 | ICR-2631 | ICR-2701 | ICR-2734 | ICR-2834 |
| ICR-3831 | ICR-4401 | ICR-4434 | ICR-4453 | | | | | | |

We have updated the `curl` program to version 8.0.1. This update has fixed [CVE-2022-43551](#) (high) and [CVE-2022-43552](#) (medium). For more details about this release, see the [Curl Changelog](#) webpage.

Updated OpenSSL Library

| | | | | | | | | | |
|------------------|-------------------|-------------------|------------------|------------------|------------------|----------|----------|----------|----------|
| SPECTRE RT | ER75i v2 | UR5i v2 | XR5i v2 | LR77 v2 | CR10 v2 | UR5i v2L | RR75i v2 | LR77 v2L | XR5i v2E |
| SmartFlex SR300 | SmartFlex SR303 | SmartFlex SR304 | SmartFlex SR305 | SmartFlex SR306 | SmartFlex SR307 | | | | |
| SmartFlex SR308 | SmartFlex SR309 | SmartFlex SR310 | SmartStart SL302 | SmartStart SL304 | SmartStart SL305 | | | | |
| SmartStart SL306 | SmartMotion ST352 | SmartMotion ST355 | ICR-3201 | ICR-3211 | ICR-323x | ICR-3241 | | | |
| ICR-2031 | ICR-2041 | ICR-2412 | ICR-243x | ICR-2441 | ICR-2531 | ICR-2631 | ICR-2701 | ICR-2734 | ICR-2834 |
| ICR-3831 | ICR-4401 | ICR-4434 | ICR-4453 | | | | | | |

We have updated the `OpenSSL` library to version 1.1.1t. This update has fixed [CVE-2023-0286](#) (high), [CVE-2022-4304](#) (medium), [CVE-2022-4203](#) (medium), [CVE-2023-0215](#) (high), [CVE-2022-4450](#) (high), [CVE-2023-0216](#) (high), [CVE-2023-0217](#) (high), [CVE-2023-0401](#) (high). For more details about this release, see the [OpenSSL Changes](#) webpage.

Part III
Known Issues

Firmware Update – Unexpected Filename

If the filename of firmware for your router was changed, you could have an issue during manual firmware update or with Automatic Update feature. This warning message will appear: *"You are trying to upload file "xx.bin" but "yy.bin" is expected. Are you sure to continue?"* To fix this issue follow instructions in Part I - [Firmware Update Instructions](#).

Automatic Update – Update to Version 6.1.10

The feature of automatic firmware update will not recognize the firmware version 6.1.10 as a new version in case the installed version of firmware is from 6.1.0 to 6.1.8. To fix this issue, either update the firmware by the automatic update to version 6.1.9 first or update it manually directly to the version 6.1.10.

WiFi Configuration – Lost After Firmware Downgrade

If the firmware is downgraded to the version earlier than 6.2.0, the WiFi configuration will be lost completely.

ICR-3200 – Country Code for WiFi

The first version of the firmware for the WiFi module does not support the settings of the country code. Due to this issue, the settings of the country code made on the configuration page has no effect at all. The country code is set up during the manufacturing process according to the product destination region.

SmartStart – Cellular Network Registration

It is necessary to use router's firmware version 6.1.5 or higher if the *Telit* cellular module installed in your SmartStart router has following version of the firmware:

- *Telit LE910-EU V2* cellular module with firmware version 20.00.403 or newer,
- *Telit LE910-NA1* cellular module with firmware version 20.00.014 or newer.

Note: The model name and firmware version of the cellular module can be found on router's web GUI at *Mobile WAN Status* page in *Mobile Network Information* section.

SmartStart SL302 – Cellular Network Authentication

It is not possible to use username and password when connecting to Mobile WAN network (on *Mobile WAN Configuration* page) if your SmartStart SL302 router has the 20.00.522 firmware version inside the Telit LE910-NA1 cellular module. The version of cellular module firmware can be found at *Mobile WAN Status* page in *Mobile Network Information* section.

SmartStart SL302 – SMS in Verizon Network

SmartStart SL302 router (equipped with the *Telit* modules *LE910-SV1* or *LE910-NA1*) supports sending and receiving of SMS in *Verizon* cellular network since the firmware version 6.1.4. Please note that to support SMS receiving, cellular module with *Verizon* firmware version higher than 20.00.012 is required.

Incorrect Mobile Data

The mobile interface data read by the SNMP or reported by the *R-SeeNet* system may be incorrect for router firmware version 6.3.8. Please update the firmware to a higher version to fix this issue.