

Firmware Change Log for Industrial Security Router Series IE-SR-4GT

List of affected Router models:

Article name	Article number
IE-SR-4GT	2873910000
IE-SR-4GT-LTE/4G-EU	2873920000
IE-SR-4GT-LTE/4G-USEMEA	2873930000

Version 1.3.9, Build number 163577.

Release date: Feb 06, 2024

Bug Fixes:

- The following features had a concurrence issue starting with version 1.3.5: U-link route push on devices with LTE modems, remote capture service, WWAN channel scan and VPN UP blink service. Therefore, only one of the features could work well at a time. The issue is fixed with this version.
- Fixed a possible memory leak that could lead to a shortage of free RAM after an uptime of more than 200 days.
- A bug has been fixed that, under certain circumstances, could cause TCP streams directed to other IP addresses neighboring on a switch to be forwarded through the device. Therefore, setups with IP settings via DHCP and simultaneous TCP port forwards on these network interfaces are recommended to update to this version.

Version 1.3.7, Build number 160694.

Release date: Dec 07, 2023

Bug Fixes:

- The remote syslog was not working correctly after a system reboot.
- The PPPoE settings on the web interface had been invisible due to a regression bug introduced with IE-SR-4GT V1.3.4.
- Date and Time settings did not offer a date later than 2023
- Fix SMS service on IE-SR-4GT-LTE/4G-USEMEA versions with SierraWireless EM7455 modems.
- Fixed the VPNUP I/O signal
- Fixed the VPN LED / VPN UP configuration drop down. The IPsec option was lost in the drop down due to a regression bug. This has been fixed.

Feature updates:

- Added the possibility to upload a WWAN modem update in the device web interface. Use the web interface and navigate to: System -> Software Update -> Tab:WWAN. Please contact Weidmüller support in case a firmware file is needed.
- Enable the SMS features and the WWAN network scan for the IE-SR-4GT-LTE/4G-EU model with Fibocom NL668EAU modem. Additionally the mobile phone number and ICCID of the SIM card have been added to the WWAN status page for all modems.

Version 1.3.4, Build number 157906.

Release date: Sep 25, 2023

Bug Fixes:

- Config files from IE-SR-4GT-LTE could not be loaded into an IE-SR-4GT-LAN and vice versa. This has been fixed.
- U-link remote network routes will now be automatically configured for network interfaces using DHCP or Fallback IP assignment when the device is in 'Transparent Bridge' mode. Previously all network interfaces in these modes were skipped. Please note that u-link does not support changing network routes while the VPN connection is established!
- A regression bug in the web UI, specifically concerning the enabling of SNAT on interfaces with DHCP IP assignment, has been fixed.
- Fixed the logging of authentication failures on the web interface.
- Increased the maximum length of Eventlog entries as some lines were cut after 256 characters.
- The automatic transmission of new or modified static routes to u-link was not functioning as intended. It necessitated a manual u-link VPN restart on the device. With the current update, the u-link VPN on the device will now automatically restart when a change or addition is made to a static route along with u-link synchronization. As a result, the new route will promptly become visible to the u-link server. It's important to note that any u-link VPN connected users must still perform a restart on their VPN endpoints to access the newly added routes.

- OpenVPN client: Static routes with a gateway on the OpenVPN interface were not restored during the VPN reconnect, but only during the initial connection until it is lost. This has been fixed.

Feature updates:

- Update of numerous internal open source software components.
- The Wireshark Remote Capture service "rpcapd" has been added.
- The configuration variables for controlling u-link VPN are added to the Permission list.

Version 1.3.3, Build number 156153.**Release date: Aug 04, 2023****Bug Fixes:**

- If the IP assignment of the WAN interface was changed from DHCP to static and the "Gateway via DHCP" option was activated at the same time, then the gateway field in the IP configuration was deactivated and it was not possible to make a gateway entry. This is fixed now.
- Improved the initial connection time and the time needed for reconnection after a link loss for the u-link WWH connections.
- The DNS proxy and the DHCP server must be configured separately since version 1.3.0. This separation was incomplete. The DNS proxy was running automatically in the background if the DHCP server was enabled on a certain interface. This has been fixed. Existing configurations will get updated on firmware update as follows: The DNS proxy will be enabled on all DHCP server interfaces if it was off before.

Feature updates:

- Allow the configuration of an NTP relay which will always step its clock directly to the NTP servers time. For example, if the time on the uplink NTP server changes spontaneously with a large value even during runtime. The option is named "Allow spontaneous NTP time step" and can be found at "Date & time". It is disabled by default.
- The devices can now use the u-link WWH connection to synchronize their date and time to the u-link server. To enable the feature, activate "World-wide heartbeat time synchronization" on the Date & Time configuration page. The time will be synced if it differs more than 60 seconds from the server. The synchronization is done inline in the WWH protocol and therefore the interval is dynamic at ~60-200 seconds.

Version 1.3.2, Build number 154727.**Release date: Jun 13, 2023****Bug Fixes:**

- Network groups: The string length of the newly introduced DNS based entries has been increased.
- New packet filter rules were not applied or saved. This regression bug was introduced with version 1.3.1.

Feature updates:

- The SNMP function was added to all three router models.

Version 1.3.1, Build number 154292.**Release date: May 30, 2023****Bug Fixes:**

- In the IP router (extended) mode, the error was fixed that the default gateway could only be entered after pressing Apply once.
- On the System State page, the u-link references in the Interface State table have been corrected.
- Incorrect entries in tables are now intercepted via an error message. No error message appeared in the previous versions 1.2.0 and 1.2.1.
- Fixed problems with the NTP relay and Siemens PLCs, the ntpd server process reported "Rate Limit reached" in the Eventlog and stopped working. This has been fixed.
- Improved NTP client behavior on power up. In some cases, it took days to synchronize the clock if there was a dynamic IP setting on the uplink like DHCP or WWAN. This issue has been resolved.
- In the Packet filter layer 3 section, the rules were incorrectly numbered, which has been fixed in this version.
- In versions 1.2.0 and 1.2.1 it could happen that WWAN PIN, MNC, and MCC and smartcard PIN settings with leading zeroes became invalid. This has been fixed in the current version, but there is a possibility that these codes must be entered again.

Feature updates:

- Added the possibility to enable debug logs for the DHCP service.
- There is a new diagnostics download. It contains more internal details for Weidmüller support, is stored in plain text and does not contain any credentials or other confidential data from the configuration.

- The HTTP/S and the DNS proxy access filter network interfaces have changed from physical mapping to interfaces with IP address only. Old configurations will continue to work as before, but on reconfiguration all pure Ethernet interface on bridges will get removed.
- Introduce DNS based packet filter. The already existent network groups can now be used with DNS host and domain names. In combination with integrated DNS proxy every DNS lookup will get synchronized with the packet filter IP addresses.

Version 1.2.1, Build number 151699.**Release date: Apr 27, 2023****Bug Fixes:**

- The Permissions web page did not allow to remove checked elements due to a regression bug introduced with version 1.2.0.
- Fixed a regression bug regarding transparent bridge mode on the device web interface introduced with version 1.2.0. It was not possible to change the IP address due to a Java Script exception.
- The Permissions for the filter wizard were not controllable due to a regression bug introduced with version 1.2.0.
- Fixed a regression bug which prevented devices with u-link VPN or SCM memory cards to load and apply a cf2 settings file generated with the firmware version 1.2.0.
- The HTTP API (get.php) did respond with wrong multiline formatting on "statuslong" calls due to a regression bug introduced with version 1.2.0.

Version 1.2.0, Build number 150462.**Release date: Apr 13, 2023****Bug Fixes:**

- Fix DHCP server web interface page. It was not possible to disable the DHCP server using the web page once it had been enabled.
- More user-friendly configuration of the setup wizard regarding date and time selection (Web menu)

Feature updates:

- Cumulative update of integrated open-source software components.
- The WAN port can now be configured to use PPPoE either with or without an additional VLAN tag.
- Log IP changes on WWAN interfaces in the Eventlog
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Version 1.1.6, Build number 148055.**Release date: Jan 18, 2023****Bug Fixes:**

- WWAN connectivity was permanently interrupted on devices with EM7455 in cases of spontaneous resets of the integrated EM7455 WWAN modem. This problem was introduced with 1.1.5.

Version 1.1.5, Build number 147499.**Release date: Jan 02, 2023****Initial Release**