

# Release notes MCX8 Firmware

## Firmware 3.14i → 3.14k (16.05.2023)

### Functional changes:

- 1 The relay is now also controllable via the REST API and using statement sequences.
- 2 Authentication of individual API/URLs:  
This makes it possible to secure access to certain API functions with a separate user/password without having to use the user/password for the device configuration.
- 3 5G/LTE: Firmware update support for RM520N-GL

### Bugfix:

Fixed segfault error in MQTT function (TLS write)  
Segfault error in timer module fixed (Blacklist + ConfigChange)

## Firmware 3.14k → 3.14m (06.14.2023)

### Security updates:

Change Linux kernel version from 6.1.23 → 6.1.33

### Functional changes:

- 1 wpa\_supplicant updated to 2.11-dev (Git Rev. 95C3f0d1)
- 2 Improvement in relay control via the  
Erroneous sequences and relay commands are now rejected with HTTP Error 400.
- 3 Output a warning in the debug log if all matching SSID's are evaluated with 0 during the score calculation. This indicates that one of the crypto settings does not fit.
- 4 Warning in debug log after startup if certificates (client and CA certificates) are loaded that are about to expire or have already expired.

## Firmware 3.14m → 3.14n (24.07.2023)

### Security updates:

Change Linux kernel version from 6.1.33 → 6.1.36

### Functional changes:

1. Web server security:
  - Preferences for the TLS session handshake algorithms can now be set.
  - New option Send HSTS header
2. EAP: EAP-TTLS can now also be performed without certificates. (similar to EAP-PEAP)

3. Wireless: wpa\_supplicant now with 802.11v support.
4. Wireless: now shows in the AP list whether an access point supports 802.11v.
5. Serial: The serial interface can now also communicate via TLS.  
Certificates for authentication can also be installed for this purpose
6. Bridge/NAT: now with warnings for conflicts of local services of the device with NAT rules defined by setup.
7. MQTT Bridge: Now also with local web socket port (default 8080)

**Bugfix:**

1. Serial: Approx. 1.5KB of memory were not released on each TCP reconnect.
2. WLAN dump: If a filter was set in LAN client cloning to record only its own traffic, then the correct MAC was not taken to define the filter.

**Firmware 3.14n → 3.14o (25.08.2023)****Security updates:**

Change Linux kernel version from 6.1.36 → 6.1.44

**Functional changes:**

1. SYN flood detection increased to 40 SYN burst. On average 5 SYN / second is still ok.
2. SNMP: Addition of status values from the info of /proc/net/dev
3. Improvement for IPv6 bridging
4. SCEP: If the CA Identity parameter for the URL contains illegal characters the value is URL-Encoded
5. Display of additional warnings in MCCConfig (from Vers.: 2\_0\_3\_9) in the column "Status":
  - For certificates that are about to expire or have already expired.
  - For incorrectly configured ping test.
6. After a "reset to defaults" of the config via the web interface or also when uploading a configuration, the view automatically changes to the configuration web page after 2 seconds.

**Bugfix:**

1. the AuxIn is now processed correctly on the MC2LX8
2. The USB voltage is now switched on earlier, so that an inserted USB memory can be detected early. Thus the Config-Stick detection works now also reliably.
3. Correction when uploading a configuration via the web interface:  
The passwords are now processed correctly