

RUT260 Firmware Downloads

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This page contains firmware files for RUT260 devices. Look to the table below or the [changelog](#) to find download links.

To upgrade firmware using WebUI, follow the instructions in [RUT260 Firmware](#).

RUT260

File	Type	Release date	Size	MD5	Changelog
RUT2M_R_00.07.08_WEBUI.bin	Latest FW	2024.07.18	11.56 MB	3b823a5d36b60d043f391d5953b2a830	Link
RUT2M_R_00.07.07.3_WEBUI.bin	Mass production FW	2024.06.25	11.56 MB	8d0b218e7ceb1c58315f67660315d668	Link
RUT2M_R_GPL_00.07.08.tar.gz	SDK	2024.07.18	20.51 MB	663c09ccb570fcddea49b2cb4ed522d8	

Note: packages for [Package Manager](#) are independent from firmware and can be downloaded in the [Package Downloads](#) page.

FW checksums

Checksums for firmware files can be found [here](#).

Changelog

[RUT2M_R_00.07.08](#) | 2024.07.18

- **New**
 - **Network**
 - DNS: added inherited server status to configuration page
 - HTTPS DNS Proxy: added new HTTPS DNS Proxy package to package manager
 - Mobile: added SIM card lock/unlock functionality in Mobile->Utilities page
 - Mobile: added SIM card PIN change functionality in Mobile->Utilities page
 - Mobile: added new Mobile->Limits page which shows information and allows to configure Data and SMS limits
 - Mobile: added DFOTA support for RG520N modems
 - Mobile: added nr-arfcn display to mobile status page
 - Mobile: added dfota support for devices with RG520N-EB modem
 - **Services**
 - Data to Server: added 'Lua script' data input
 - Hotspot: added Single Sign-on (OIDC) authentication mode
 - Hotspot: added Walled Garden blocklist functionality
 - Input/Output: added ability to configure gpio debounce timer and changed default gpio debounce timer value from 200 ms to 10 ms

- IPsec: added initial XFRM support
- MQTT Modbus Gateway: added JSON message type format
- OpenVPN: added DCO support
- **System**
 - API Core: added option to configure api session timeout
 - Certificates: added "Let's encrypt" certificate generation
 - PAM: added RADIUS external user support
 - UI Core: added data analytics support
 - Update Firmware: added warning message about device being temporarily unreachable on firmware update
- **Improvements**
 - **Network**
 - DNS: separated field "DNS forwardings" into two: one for simple server forwarding other for domain-specific
 - DNS: moved "DNS Forwardings", "Listen interfaces", "Exclude interfaces", "Local service only", options to advanced tab
 - Firewall: improved protocol field in all firewall pages by making that "All" value would be mutually exclusive with any other value
 - Mobile: improved IMS context initialization
 - Mobile: updated SMS memory management for multipart SMS
 - Mobile: added error message when attempting to enable the SIM switch without any criteria set
 - Mobile: added informative message in SIM switch page when Data/SMS limit criteria are enabled but the limits themselves are not set up
 - Mobile: moved operator list allowlist/blocklist selection to Network selection page
 - Mobile: refactored Scanned operators modal, added repeat scan button
 - Mobile: added ability to view previously scanned operators in Network selection and Operator lists pages
 - Mobile: added ability to edit operator list name and initiate scans for operators in Operator lists page
 - Mobile: updated operator code field list to include APNs from the APN database in Operator lists page
 - Mobile: split Mobile->General page into three pages: General, Connection and Utilities pages
 - Mobile: added mobile interface with highest priority APN configuration in Mobile->General page
 - Mobile: added icons with hints which show SIM card, operator, data connection statuses in Mobile->General page
 - Mobile: moved Mobile data limit section to a tab in WAN page
 - Mobile: added informative message in WAN page to indicate whether the connection will be made using APN from APN database, empty or custom APN
 - Mobile: improved logging of ping error messages
 - Mobile: added 5G SA/NSA mode selection
 - Mobile: improved modem updater to stop ping reboot service while update is in progress
 - Mobile: improved the handling of denied messages upon SIM switch
 - Mobile: added notification when a multi-IMSI SIM card is using Auto APN
 - Mobile: added validation to not allow passthrough and bridge mode when one already exists
 - Mobile: improved safeguards for modem services startup
 - Mobile: improved modem update status display

- Mobile: added corrupted mobile statistics database restoration functionality
- Mobile: improved setting of IPv4 and IPv6 types inside the modules
- Mobile: improved provider name parsing for SLM750 modem
- Multi WAN: improved interface status representation when using load balancing
- Network: added more options for "IPv6 assignment length" field
- VLAN: added ability to configure VLAN 0
- Wireless: added warning when user configures mesh on radio with automatic frequency channel
- Wireless: added support for wireless MAC-filter MAC ranges
- Wireless: changed Radius Accounting port is not required when configuring access point with enterprise encryption
- Wireless: refactored radio configuration page layout
- Wireless: refactored assignment of wireless interfaces MAC addresses, STA interface will always use fixed address
- **Services**
 - Azure IoT Hub: added DPS symmetric key attestation support
 - Azure IoT Hub: added Direct Method support
 - Azure IoT Hub: added Plug and Play integration
 - Azure IoT Hub: added link to "Data to Server" page
 - Data to Server: added support for multiple filters
 - Data to Server: improved HTTP output hostname definition with automatic protocol specification in URL
 - Data to Server: improved MQTT input connection handling
 - DNP3 Client: added option to enable/disable service
 - Dynamic DNS: added Lookup hostnames support
 - GRE: increased Inbound and Outbound key limit to 4294967295
 - Hotspot: adjusted hotspot user manager page to display active and inactive user sessions
 - Hotspot: changed local users to be stored with other types of users
 - Hotspot: added 'noc2c' option for enabling client isolation, option is enabled by default
 - Input/Output: added custom name support in I/O status page
 - IPsec: added certificate warning message
 - Mobile Utilities: added interface option to sms_utils cellular command
 - Mobile Utilities: improved error log message
 - Mobile Utilities: improved naming of I/O pins in initial I/O status rule
 - Mobile Utilities: sms utilities authentication brute force prevention
 - Modbus Server: added mobile last month and last week usage registers
 - Mosquitto: added large package size check for MQTT clients
 - MQTT Modbus Gateway: improved mosquitto reconnect time and service will try to recover few times before exiting
 - MQTT Publisher: improved MQTT connection handling
 - OPC UA Client: added security modes
 - OPC UA Server: added security modes
 - OPC UA Server: added service status display
 - OpenVPN: added support for decrypting private key when uploading a configuration file
 - OpenVPN: improved instance status state
 - OpenVPN: added options to specify an IP address pool for dynamic assignment to clients
 - SMPP: added brute-force prevention

- SMPP: added TLS/SSL support
- SMS Utilities: added security warning in "Authorization method" configuration
- SNMP: changed interface module OID structure
- SNMP: improved User-based Security Model (USM) brute force attack prevention measures
- Stunnel: improved global instance settings dependencies
- emailrelay: updated version to 2.4.1
- OpenVPN: updated version to 2.6.9
- stunnel: updated version to 5.72
- **System**
 - Access Control: added certificate key length warnings
 - Access Control: adjusted access control when all pages are blocked
 - Access Control: added certificate file download for CLI to work on all browsers
 - API Core: implemented functionality to include warning messages for vulnerable certificates
 - Boot: improved modem startup reliability
 - Boot: reduced first boot time
 - Package Manager: added multi package actions
 - Package Manager: added status filter
 - Package Manager: moved package upload action to main page
 - Package Manager: added links to installed packages pages
 - Package Manager: refactored "Packages" page
 - Package Manager: updated opkg repository link to use https
 - RutOS: improved GPL example page to align with new software architecture
 - Troubleshoot: refactored Modem debug section to display responses in single field, added clear button to remove received responses
 - Troubleshoot: added support for multiple syslog servers
 - UI Core: added additional message with IP address to loading screen for scenarios when redirect to different IP address happens
 - UI Core: added toast message hiding when text is too long
 - Update Firmware: added 'Firmware version' data in screen after firmware upload
 - WebUI: added functionality to cancel loading screen if it takes 30 or more seconds
 - WebUI: removed all ubus method calls from webui
 - WebUI: improved language caching
 - WebUI: added password generator for first login modal
 - WebUI: added sticky position to side menu
 - WebUI: added default password hint to login error message
 - WebUI: added warning messages for low-security certificates
 - Kernel: updated version to 5.15.159
 - libexpat: updated version to 2.6.2
 - SSL/TLS: updated version to 3.0.14
 - vue: updated version to 3.4
- **Fix**
 - **Network**
 - Channel Analysis: fixed network list not being updated if a single scan fails
 - Devices: fixed missing API devices status endpoint permission
 - DHCP: fixed "DHCP option" allow empty input value
 - DHCP: fixed IPv4 leases being not correctly shown when NTP synchronizes time
 - DHCP: fixed DHCP error that occurred after changing the subnet of the LAN IP address in the setup wizard
 - Dynamic routes: fixed duplicated external routes cards

- Firewall: fixed firewall zone validation when adding interfaces
- Mobile: fixed low signal reconnect being available on modems where it is not supported
- Mobile: fixed gsmctl -E output to return only json values
- Mobile: fixed Carrier Aggregation signal strength info
- Mobile: fixed wrong mobile data limit used data format for sms messages
- Mobile: fixed duplicate data connection event reporting
- Mobile: fixed an issue where low signal notifications were displayed without a SIM card
- Mobile: fixed modem serial number acquisition after modem reboot
- Mobile: fixed an issue when 4G-only network type selection may have resulted in a slower connection to the operator
- Mobile: fixed issue where USSD responses were returned in HEX format instead of text format for EC200A module
- Mobile: fixed issue where DHCP filter was not set correctly for RG501Q
- Mobile: fixed an issue where the wrong IP address was used after a DFOTA upgrade
- Multi AP: fixed Multi AP not working with fast roaming
- Multi AP: fixed switching to Multi AP mode fails due to encryption
- Multi AP: fixed Multi AP configuration being deleted when switching mode on the same radio device
- Network: fixed overriding MAC address for interfaces that are bridged
- Realtime Traffic: fixed mobile usage by week day translation by device language
- RelayD: fixed API error when "network" and "lan_mark" options are not present in a PUT request
- SQM: fixed missing PPP mobile device selection in SQM configuration
- Wireless: fixed wireless scan results sometimes not being returned
- Wireless: fixed wireless status page not updating wireless SSID status after page is opened
- Wireless: removed the ability to have different countries in radio configurations
- Wireless: fixed interface delete when it's unassigned from the wireless interface in access point mode
- Wireless: fixed backticks for WiFi SSID are not allowed in WebUI
- **Services**
 - BACnet: fixed incorrect BACnet IP port used for sending responses
 - BGP: fixed route map sequence going out of range
 - BGP: fixed listen range field allowing multiple entries
 - Call Utilities: fixed table header switch to be disabled if no rules were created
 - DLMS: fixed DLMS test response format
 - DLMS: fixed COSEM group validation
 - DLMS: fixed API POST error for /dlms/devices/config endpoint
 - DLMS: fixed serial connection not working after reboot
 - DNP3 Client: fixed to allow reading objects past 255 index
 - DNP3 Client: fixed incorrect hints
 - DNP3 Outstation: fixed serial outstation starting issues
 - Hotspot: fixed uploading more than one custom theme
 - Hotspot: fixed creating Hotspot to SSID that is disabled
 - Hotspot 2.0: fixed Venue name and Operator's name field validations
 - I/O Juggler: fixed improper dout action config handling
 - I/O Juggler: updated profile change action
 - Input/Output: allow unselecting all Post/Get access methods

- IPsec: fixed connectivity issues when using WAN failover
 - IPsec: fixed the instance status when the local firewall option is disabled
 - Ledman: fixed issue when after some time network type LED starts blinking
 - Modbus Client: fixed test request option validation
 - Modbus Client: fixed alarm output action display values
 - Modbus Client: fixed incorrect period hint
 - Modbus Server: fixed APN register not clearing APN
 - Modbus Server: fixed 148 and 164 modbus registers
 - Modbus Server: fixed incorrect hints
 - OPC UA Server: fixed not starting while modem is down
 - OpenVPN: fixed displaying imported files from device
 - OpenVPN: fixed the private key decryption for cases when a password is used
 - OpenVPN: fixed data cipher migration
 - SMPP: fixed username bypass problem
 - SMPP: fixed password validation
 - SMS Gateway: fixed SMS to Email recipient formatting according to RFC5322
 - SNMP: fixed GSM mSignal OID value type
 - SNMP: fixed GSM module memory leaks
 - SSTP: fixed functionality when the default route option is not enabled
 - Web Filter: fixed whitelist not working for some hosts when using IPv6
 - **System**
 - Administration: fixed repeated validation on cleared inputs and added validation when new password matches the old one
 - API Core: fixed API method validation during upload action
 - API Core: fixed error messages for POST method
 - API Core: fixed option list validation
 - Boot: fixed factory settings restore (firstboot) not deleting hidden files
 - Events Log: fixed refresh button in event log table
 - IP Block: fixed adding MAC addresses back to whitelist when unblocking all of them
 - Recipients: made phone number field required
 - Setup Wizard: fixed lan ip step not changing ip address
 - Troubleshoot: fixed system log and kernel log buttons to be enabled with read only rights
 - Update Firmware: fixed misleading "Firmware version" status of "N/A" to "FOTA service is disabled" when FOTA is disabled
 - Update Firmware: fixed issue when infinite spinner appears after updating device firmware from server without having internet connection
 - **CVE Patches**
 - Patched CVE-2023-52425
 - Patched CVE-2023-52530
 - Patched CVE-2024-25629
 - Patched CVE-2024-28757
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[RUT2M_R_00.07.07.3](#) | 2024.06.25

- **Fix**
 - **Network**
 - WebUI: fixed port advertisement change

- **System**
 - FOTA: fixed config when upgrading from older firmware with keep settings
 - **CVE Patches**
 - CVE-2024-31950
 - CVE-2024-31951
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[RUT2M_R_00.07.07.2](#) | 2024.06.12

- **Improvements**
 - **Network**
 - Zerotier: added backup WAN interface blacklisting if WAN failover is enabled
 - Mobile: improved communication stability with eSIM
 - **Services**
 - SNMP: added bruteforce attack prevention when using SNMP v3 user
 - L2TP: improved reconnect attempt logic
 - Wireless: removed unnecessary information from system logs
 - **System**
 - SSH: removed weak SSH algorithms
 - Telnet: moved to Package Manager
 - **Fix**
 - **Network**
 - BGP: fixed instance migration issues
 - Mobile: fixed forced APN configuration
 - **Services**
 - DMVPN: fixed duplicate NHRP map entries creation
 - OpenVPN: added fixes for the insecure tls-cert-profile option usage
 - **System**
 - IP Block: fixed blocking of UDP traffic
 - Ledman: fixed WiFi LED indication when WiFi configuration is changed
 - Uboot: fixed firmware recovery update via uboot on Windows
 - **CVE Patches**
 - CVE-2024-31948
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[RUT2M_R_00.07.07.1](#) | 2024.05.03

- **Improvements**
 - **Network**
 - Mobile: improved connection establish time for uqmi protocol
 - **System**
 - WebUI: improved first login password change logic
 - Certificates: updated Root CA certificates
- **Fix**
 - **Network**
 - Mobile: fixed denied roaming flag set
- **CVE Patches**
 - CVE-2024-2397

- **New**

- **Network**

- WebUI: added ESM/EMM message notifications
- WebUI: added internet status tracking configuration and overview widget
- LAN: added a new IPv6 LAN status page
- Static Leases: added a new IPv6 Static Leases page
- WebUI: added custom domain name resolve option in “DNS” configuration page
- Auto APN: added “uno.au-net.ne.jp” APN for “KDDI” operator
- Auto APN: added 'eprivate010.tisparkle.com' APN for “Sparkle” operator
- QoS: added mobile interface select option
- Failover: added additional connection flush options
- Wireless: added auto-reconnect disable functionality
- Wireless: added ability to use PKCS#12 certificates for EAP-TLS authentication
- VRF: added initial Virtual Routing and Forwarding support

- **Services**

- Post/Get: added I/O invert support
- DLMS Client: added persistent TCP connections
- Events Reporting: added unexpected shutdown event
- Modbus Client: added 64bit data types
- IPerf3: added iPerf3 to Package Manager
- DNP3 Outstation: added I/O objects
- TR-069: added PCI, LAC, TAC, EARFCN and Neighbour cells data to Device.MobileInfo node
- Hotspot: added domain and subdomain options for external landing page

- **System**

- WebUI: added the ability to generate random passwords for password input fields
- WebUI: added reset to “Factory defaults” option
- System: changed firmware certificate verification tool
- IP Block: added time-based login attempt blocking
- WebUI: added firmware update notification support
- PAM: added the ability to set port for TACACS+
- Logging: added multiple remote syslog servers support

- **Improvements**

- **Network**

- Static Leases: added possibility to use MAC with wildcard
- WebUI: added ability to disable modem update notifications
- WebUI: added additional field for warning threshold to allow entering value as percentage in Mobile Data Limit section
- Mobile: improved mobile services stability when SIM card is lost during SMS sending
- Mobile: updated bridge/passthrough mode logic to flush ARP and add static ARP entry if MAC is specified
- Mobile: improved SIM switch logging and protection on failure to acquire data
- WebUI: added partial data loading to APN database page
- Mobile: improved SMS sending timeouts during network issues
- Mobile: improved connection handling when data limit is reached
- Mobile: added metric to default gateway when using passthrough mode

- WebUI: added validation for 2 same APNs
- WebUI: updated Band selection field to show duplex modes in Mobile General page
- Mobile: improved connection establishment time on device boot up
- Topology: changed network devices scanning application
- WebUI: improved design of Status - LAN page
- DHCP: simplified DHCP configurations in other pages and moved full DHCP configuration to a separate page
- DHCP: removed default disabled server configuration for WAN interface
- WebUI: simplified data entry of DNS forwardings by separating hostname and IP address fields
- BGP: added Virtual Routing and Forwarding (VRF) support
- BGP: added multiple BGP instance support
- WebUI: adjusted responsive design breakpoints
- Dnsmasq: updated dnsmasq to version 2.89
- WebUI: added an information icon and disabled delete button for wireless instance when it is associated with a hotspot interface
- Wireless: improved hidden AP handling when showing scan results
- **Services**
 - Wireguard: added option to bind tunnel to a specific interface
 - OPC UA Client: added limits (10 servers, 20 groups, 50 nodes per server, 50 values per group)
 - DLMS Client: increased maximum count of connection sections to 30
 - DLMS Client: added short name referencing
 - SNMP: set strict default community access when IPv6 address is used
 - SNMP: improved sysName OID to set device's hostname
 - OpenVPN: added the bridge option for selecting the network device to be bridged with
 - OpenVPN: added possibility to create more than one TAP client
 - Auto Reply: added available SMS message parameters to "Message text" input
 - Modbus Client: allow using diacritics in SMS alarms
 - Hotspot: moved MAC blocking option from Access Control to Hotspot page
 - WebUI: added MAC authentication support when using RADIUS authentication mode
 - WebUI: moved licenses to footer
 - SSTP: updated package version to 1.0.19
 - Mosquitto: updated package version to 2.0.17
- **System**
 - WebUI: added more strict password requirements for restoring backup
 - SMTP: added option to either not verify SMTP server or upload SMTP server's CA file to verify authenticity
 - WebUI: Added the ability to choose the ROOT CA when using certificates from the device
 - WebUI: unified time format to ISO8601 across the entire WebUI
 - WebUI: added ability to choose imported certificate and key as 'Server certificate' and 'Server key' in 'Access Control'
 - WebUI: added 'Hosts' and 'IP Addresses' options for 'Simple' certificate generation and certificate signing
 - WebUI: changed firmware update option to server as a default option
 - GPL: added offline package preparation command for GPL builds
 - Speedtest: added multiple connections support to improve accuracy

- Kernel: updated to version 5.15.149
- Libcap: updated package version to 2.69
- **Fix**
 - **Network**
 - Topology: fixed showing interfaces with assigned VLAN
 - WebUI: fixed static routing creation for GRE instance
 - Network: fixed DHCPv4 relay mode enabling
 - Mobile: fixed PIN code set after modem restart
 - Mobile: fixed an issue where using SIM change command on one SIM slot modems would reset connection
 - Mobile: fixed an issue where message storage would not be checked correctly
 - Mobile: fixed temperature value sometimes returning 0
 - Mobile: fixed issue where RSSI value was displayed as 0 when using 2G/3G network types
 - Failover: fixed Failover missing active rules when using multiple source and destination IP addresses
 - Failover: fixed an issue where failover would not function correctly while using a mobile interface
 - WebUI: fixed network and failover interface metric sorting synchronization issue
 - WebUI: fixed failover rule policy save issue with newly added WAN interface
 - Interfaces: fixed failover value for new WAN being taken from WAN that was just deleted
 - Wireless: fixed Wifi Scanner not saving scanned WiFi SSIDs
 - Wireless: fixed missing CCMP-256 and GCMP-256 cipher types in scan results
 - Wireless: fixed missing GCMP-256 cipher when using WPA3-EAP encryption in Client mode
 - Wireless: fixed skipped MAC address value for interface in Client mode
 - Wireless: fixed scanning issue when connected via the same network
 - Wireless: fixed mesh functionality
 - Wireless: fixed missing signal strength value on Client interfaces
 - Wireless: fixed Client interface taking excessive time to connect after boot
 - Wireless: fixed missing EAP authentication in Client mode
 - Wireless: fixed connected wireless clients being shown duplicated
 - WebUI: fixed mesh nodes not being shown in Status->Wireless->Interfaces page
 - WebUI: fixed proposed configuration settings when connecting to a mesh point network
 - MultiAP: fixed client not switching to another AP if incorrect password was provided
 - **Services**
 - Modbus Client: allow using negative floating point values in requests
 - Azure IoT Hub: fixed Data to Server minor WebUI dependency bugs
 - Azure IoT Hub: fixed 'contentType' telemetry message parameter
 - Data to Server: fixed DLMS data formatting
 - Data to Server: fixed Network link state data display
 - DLMS Client: fixed segfault while reading profile generic COSEM object
 - DLMS Client: fixed profile generic entries reading
 - DLMS Client: fixed application memory allocation issues
 - SSTP: fixed route adding when default route is enabled
 - SNMP: fixed VLAN OID naming
 - OpenVPN: added fixes for instance status tracking functionality
 - OpenVPN: resolved uptime counting issues

- PPTP: fixed PPTP instance deletion problem
- PPTP: fixed problem related with routes when failover is enabled
- Hotspot: fixed password validation for locally created users and signed-up users
- Hotspot: fixed session invalidation after deleting registered user
- Hotspot: fixed SMS OTP password reuse
- Hotspot: fixed firewall rule creation
- Modbus Client: fixed issue where service freezes when SMS alarm is sent
- WebUI: fixed data loading error in Input/Output > Post/Get page
- UPnP: updated package version to 2.3.4
- **** System**
- NTP Client: fixed "Count of time synchronizations" execution when synchronization to mobile operator is chosen
- Package Manager: fixed spinner message when restarting network after package upload or download
- Package Manager: fixed supported devices check when installing a package from server
- WebUI: fixed language install from uploaded package after upgrade with keep settings
- WebUI: fixed an issue when a user was not logged out after changing profiles
- Telnet: fixed segmentation fault during concurrent connections
- CLI: fixed enter key issue on mobile chromium based browsers
- System Users: fixed SSH session close after deleting user or disabling SSH access
- Profiles: fixed profile migration with installed packages
- WebUI: fixed Hotspot log page table search functionality
- Speedtest: fix missing download speed on some servers
- PAM: updated libpam to version 1.6.0

- **CVE Patches**

- CVE-2022-4603
- CVE-2022-23308
- CVE-2022-45061
- CVE-2023-0466
- CVE-2023-6129
- CVE-2023-7042
- CVE-2023-24329
- CVE-2023-27043
- CVE-2023-42366
- CVE-2023-46218
- CVE-2023-46219
- CVE-2023-46752
- CVE-2023-46753
- CVE-2023-48795
- CVE-2024-25062
- CVE-2024-27913
- CVE-2024-22365

[RUT2M_R_00.07.06.10](#) | 2024.04.04

- **Fix**
 - **System**

- Ledman: fixed memory leak
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RUT2M_R_00.07.06.8 | 2024.03.25

Note: Firmware **R_00.07.06.8** was removed due to an issue with inefficient memory allocation for LED control.

- **Improvements**
 - **Services**
 - IPsec: disabled libgmp in favor of openssl
 - IPsec: updated Strongswan to 5.9.6
 - **Fix**
 - **Services**
 - IPsec: increased charon load timeout
 - IPsec: fixed loading of large private keys
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[RUT2M_R_00.07.06.6](#) | 2024.03.04

- **New**
 - **Services**
 - Added domain and subdomain options for external landing page in Hotspot
 - **Improvements**
 - **System**
 - Minified *.svg WebUI files to save space on the device
 - Removed unused easy-rsa package to increase free space
 - **Fix**
 - **Network**
 - Fixed mobile daily data usage representation
 - Fixed the issue with Wireless bgscan functionality not operating correctly
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[RUT2M_R_00.07.06.5](#) | 2024.02.21

- **New**
 - **Network**
 - Added support for multi line USSD
- **Improvements**
 - **Network**
 - Improved DMZ to use its source zone on port forwards creation
 - **System**
 - Updated netifd version to 2024-01-04
 - Updated PPP package version to 2.4.9
 - Updated E2fsprogs package version to 1.47.0
 - Updated Musl package version to 1.2.4
- **Fix**
 - **Network**
 - Fixed an issue where DNS resolution failed for wireless clients connected to an

- access point configured on a specific VLAN
 - **WebUI**
 - Fixed action descriptions in the traffic rules table
 - **System**
 - Fixed WiFi LED indication when access point is turned off
 - Fixed year 2038 problem with time counter overflow
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[RUT2M_R_00.07.06.3](#) | 2024.01.17

- **Improvements**
 - **Services**
 - Increased DLMS Client connection timeout for TCP sockets
 - **Fix**
 - **Services**
 - Fixed DLMS Client memory leak with profile generic COSEM class
 - **WebUI**
 - Fixed Events Log sorting and search features
 - **System**
 - Patched CVE-2024-0193 vulnerability
 - Patched CVE-2023-51779 vulnerability
 - Updated OpenSSH to 9.6p1 version, fixed CVE-2023-51385 and CVE-2023-51384
 - Fixed profile migrations, added error handling when trying to change profile while it is still applying
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[RUT2M_R_00.07.06](#) | 2023.12.20

- **New**
 - **Network**
 - Enabled IPv6 by default for mobile interfaces
 - Added operator blacklisting and whitelisting based on mobile country code
 - Added SIM card not inserted event in Events Log
 - Added 802.11v BSS Transition Management and 802.11k Radio Resource Measurement
 - **Services**
 - Added OPC UA Server
 - Added the ability to set port for TACACS+ in PAM service
 - Added switch to enable using root certificate authority for MQTT alarms in Modbus Client services
 - Added new alarm action "Ubus event" in Modbus Client services
 - Added new input "Modbus alarms" in Data to Server service
 - Added wget ping subtype support in Events Reporting service
 - Added new I/O SNMP OID that returns numeric I/O state
 - Added new Post/Get service action "mobile_sim_pin" for changing used SIM PIN code on the device
 - **WebUI**
 - Renewed user interface design
 - Added network interface name change functionality
 - Added last resort configuration option for multiwan policy rules

- Added indication when new modem firmware is available
 - Added mobile connection establishment display in mobile status page
 - Added default value for "Reset threshold" field in Low Signal Reconnect feature
 - **System**
 - Added ability to enable/disable SSH access for specific users in System Users
 - API support
- **Improvements**
 - **Network**
 - Disabled operator scan when SIM card is not inserted
 - **Services**
 - Expanded GRE VPN keep alive functionality to disable routes from unreachable tunnel
 - Added PKCS#12 certificate container authentication method in IPsec VPN
 - Added TLV message_payload support for SNMP service
 - Added Purple.ai configuration profile
 - Added possibility to assign mobile interface in SQM service
 - Added additional anonymous phone number validation in Mobile Utilities service
 - Added "N/A" signal strength response in DNP3 service if SIM card is not inserted
 - **WebUI**
 - Improved Events Log page loading by adding asynchronous pagination
 - Removed requirement for Diffie-Hellman parameters in OpenVPN service
 - Added improvements for creating OpenVPN IPv6 configurations
 - Added auto redirect after changing router's IP address or port
 - Added "Interface" dropdown for interfaces selection in Wake on LAN service
 - Increased Data to Server service MQTT topic length limit to 65535 characters
 - Added OSPF external routes section to Status page
 - Moved device menu entry "Reboot" to header menu
 - Added indication in Overview, Status -> Mobile and WAN pages when mobile data limit is reached
 - Updated Operator state field to show if modem is in limited service
 - Combined Mobile Usage day, week, month and total pages into one
 - Updated Realtime data -> Mobile signal page design to show all available modems and their bands data in one graph
 - Added message when SIM card requires PIN/PUK code in Status -> Mobile page
 - Moved WiFi scanner page to Services section
 - **System**
 - Added Mosquitto CVE patch 2023-28366
 - Added Mosquitto CVE patch 2023-3592
 - Updated cURL version to 8.4.0
 - Updated kernel version to 5.4.259
 - Added RMS data display to generated troubleshoot
 - Added downloaded Package Manager packages list to generated troubleshoot
 - Added process activity load list to generated troubleshoot
 - Changed default OPKG feed to use Teltonika's URL
- **Fix**
 - **Network**
 - Fixed DMVPN firewall rule creation issues
 - Fixed Failover missing active rules when using multiple source and destination IP addresses
 - Fixed mobile service crash due to buffer overflow while reading partially overwritten SMS

- Fixed an issue with Manual APN connection making attempts too rapidly
- Fixed deny data roaming functionality when transitioning between roaming and home operator network
- Fixed network disconnection on mobile network detach and DHCP lease loss situations
- Fixed VoLTE configuration after modem reboot
- Fixed Mobile interface bridge and passthrough mode connectivity loss
- Fixed an issue where rarely PIN code would get removed after SIM switch
- Fixed mobile operator list being not updated after changes in WebUI
- Fixed issue where mobile interface was unreachable after device reboot or interface restart while using Failover service
- Fixed wireless client authentication failures when using AP and STA with WPA3-SAE authentication
- Fixed STA connection failure to AP with hidden SSID using WPA3-SAE authentication
- Fixed incorrect signal strength values in Wireless scan results
- **Services**
 - Fixed SSH module enable in PAM service
 - Added minimum free space check when saving logs to flash in Logging service
 - Fixed "Set multiple coils" function sending too many bytes in Modbus Client services
 - Fixed multiple Events Reporting messages being sent when Firewall configuration is changed
 - Fixed VRRP instances advertising wrong virtual IPs
 - Added Hotspot information in SNMP MIB file
 - Fixed registered Hotspot Local Users showing random username
 - Fixed selection of MAC Auth for LAN interfaces in Hotspot service
 - Fixed inconsistent Hotspot login behaviour when using MAC Auth with Password
 - Fixed instance shutdown after last local user deletion
 - Fixed Cumulocity app not sending any telemetry data
 - Fixed Call Utilities failure when caller id is hidden during a call
 - Fixed default profile SMS Utilities I/O status rule configuration in Profiles functionality
- **WebUI**
 - Fixed side menu style issues when Japanese language is used
 - Fixed displaying of vendor names in Topology page
 - Fixed language packs being selectable when still in Package Manager queue
 - Added ability to configure IPv6 BGP peer
 - Fixed RelayD configuration issues after keep settings
 - Fixed realtime graphs responsive design issues
 - Fixed not all LAN interfaces shown in dropdown in Hotspot service page
 - Fixed modem updater legacy firmware flashing
 - Fixed wireless realtime data to show signal as unavailable with no connected clients
 - Fixed WiFi scanner disconnecting AP users
 - Fixed setup wizard errors in Wireless configuration page
 - Fixed Unicode SSID representation in Wireless scan results
- **System**
 - Patched FRR CVE-2023-38406
 - Patched FRR CVE-2023-38407
 - Patched FRR CVE-2023-41358

- Patched FRR CVE-2023-41360
 - Patched FRR CVE-2023-41909
 - Patched FRR CVE-2023-47234
 - Patched FRR CVE-2023-47235
 - Patched OpenSSL CVE-2023-3446
 - Patched OpenSSL CVE-2023-3817
 - Patched LibXML2 CVE-2023-39615
 - Patched LibXML2 CVE-2023-45322
 - Patched FFMPEG CVE-2021-28429
 - Patched FFMPEG CVE-2022-48434
 - Patched dnsmasq CVE-2023-28450
 - Fixed running out of space when SSHFS is mounted in /tmp while generating troubleshoot
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- **Improvements**

- **WebUI**

- Improved asynchronous pagination in events log pages
 - Optimized Overview page load
 - Added resource loading cancellation after switching to different page
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- **New**

- **Network**

- Added "shared.m2m.ch" APN for Swisscom IoT operator to APN database
- Added "gamma" APN to auto-APN database
- Added "soracom.io" APN for Soracom operator to APN database
- Added "simbase" APN to auto-APN database
- Added "pnd" APN for Pond IoT to auto-APN database
- Added "spitfire1" APN for Spitfire operator to APN database
- New argument in "gsmctl" CLI command for Carrier aggregation
- Numeric mode support for modem AT commands
- Enabled dynamic MTU configuration on mobile interfaces by default
- WDS support for wireless bridging

- **Services**

- DLMS Client package
- 7zip package
- TincVPN package
- Added router uptime and mobile connection uptime data parameters to SNMP
- Custom MQTT publisher/subscriber topics definition support
- Alternative configuration file upload support for MQTT Broker service
- Device Provisioning Service support for Azure IoT Hub service
- Added more mobile usage parameters to SNMP

- **WebUI**

- Firewall status page
- Page search feature

- Network Topology page
- "Allow insecure connection" option for MQTT TLS protocol in Data to Server service
- Package Restore feature Enable/Disable option
- Hotspot client connection/disconnection trap option for SNMP service
- Added Events log trap option for SNMP service
- Confirm dialog when cancelling a verified package in Package Manager
- "Bridge ALPN" option for Bridge configuration in MQTT Broker service
- New subtypes of events that specify a specific port on "Events Reporting" and "SNMP Trap rules" pages
- Specific firmware packages repository link in Package Manager page
- Ability to enter decryption passphrase for encrypted private keys
- "Reconnect" button in RMS page
- New event "Device startup completed" in Events Reporting service
- Port status and configuration page
- Wireless interface QR code generator
- Channel analysis page Status -> Wireless -> Channel Analysis
- Disabled direct network interface deletion when it is associated with a wireless interface
- Limited to a single section configuration and added IP address field for Relayd service
- "Fast roaming" configuration for Wireless service in Client mode
- Updated Status->Network->Wireless page to display interfaces as cards and added ability to filter connected clients by selected interface
- Modem Debug page
- APN database management page added to package manager
- Added "Message forwarding" option in SMS Rules page when rule type is "Execute custom script"
- Ability to unblock SIM card and insert SIM PIN in Overview page
- New SMS rules "Reset mobile connection" and "Reload config"
- "SMS limit clear due" display in Overview page
- Added modem temperature to System -> Status page
- IP6 table configuration option for DHCPv6 protocol in Network -> WAN page
- **System**
 - Mechanism to rebrand WebUI using GPL
 - Possibility to create web applications with closed-source GPL
- **Improvements**
 - **Network**
 - Moved FRR VTYSH package to package manager
 - Made newly created Firewall Traffic, NAT rules and Port Forwards disabled by default
 - Improved Interfaces to enable IPv6 DHCP server when mobile v6 or v4v6 PDP type is set
 - Improved auto APN selection
 - SMS sending event is now logged into events log
 - Improved roaming control
 - Removed unused APN usernames and passwords from auto-APN database
 - Added connection to the operator when no mobile interfaces are active
 - Improved VoLTE management functions
 - Improved cases where Low Signal Reconnect sometimes executed prematurely
 - Improved wrong SIM PIN remove logic

- Added automatic reconfiguration when switching between wireless interface modes
- Added automatically generated name option for new network
- WPA3/WPA2 (PSK/SAE) mixed mode is now default encryption standard
- Improved operator information parsing logic on MeiG modem
- **Services**
 - New reworked Data to Server
 - UPNP moved to package manager
 - Added IPv6 support for Modbus TCP Server/Client services
 - Refactored Azure IoT Hub service
 - Improved resiliency to timeouts in Modbus Client service
 - Added PDU data type to Modbus read requests
 - Added new formatters for MQTT alarms in Modbus Client service
 - Added main section to make test functions independent in Modbus Client service
 - Improved WAN IP register reading time in Modbus service
 - Sped up default profile and profile template generation for Profiles functionality
 - Optimized profile change time for Profiles functionality
 - Added IPv6 support for Stunnel VPN
 - Added MAC blocking for client connections after set amount of failed login attempts in Hotspot service
 - Improved TCPdump by allowing to capture packets from any interface
 - Added OSPF support for DMVPN
 - Updated Hotspot password hashing to sha512
 - A single SMS message with multiple PDUs is sent instead of multiple SMS messages in Email to SMS service
 - Allowed connection to SMPP server using IPv6 address
 - Extended IP unblock action functionality in SMS Utilities
 - Increased allowed Email to SMS service message size to 61440 bytes
 - Added I/O pin name to trap notification message
- **WebUI**
 - Reorganized menu
 - Updated header design
 - Split Interfaces configuration in Advanced mode into two pages: WAN and LAN, identically as in Basic WebUI mode
 - Moved Interfaces IPv6 configuration into separate tab
 - Added client/server status information in OpenVPN instance overview page
 - Added more IPv6 information to interface status in Interfaces page
 - Removed "Custom delegated IPv6-prefix" field from DHCPv6 configuration in Interfaces page
 - Disabled DHCPv6 interface editing while in basic mode
 - Refactored custom DHCP options into separate modal
 - Added automatic start and end IP allocation for DHCP server configuration in Interfaces
 - Added client/server status information in L2TP VPN page
 - Added "MTU" field to L2TP client configuration page
 - Added CHAP, PAP and MSCHAP-v2 authentication fields to L2TP instance configuration
 - Added more detailed IPsec VPN status information
 - Encryption AES-256-CBC added as default in OpenVPN
 - Added "Authentication algorithm" support to OpenVPN configuration with static key mode

- Added GRE (DMVPN) VPN tunnel source support to any instead of specific interface
 - Improved Hotspot landing page theme package removal
 - Added upload and download theme functionality to Hotspot Landing page
 - Improved ZeroTier VPN bridge configuration
 - Added ability to adjust order of rules in Firewall page
 - Added IPv6 RAW table to be displayed in Status -> Firewall
 - Improved file upload component's visual appearance
 - Change "Allow anonymous" option default value to 0 in MQTT Broker
 - Added option to specify "Client ID" in MQTT Publisher
 - Added functionality to select specific interface in Web Filter service
 - Allowed to select FTP server subfolder in Traffic Logging service
 - Renamed various service master/slave naming convention in config files, package names and webUI to client/server
 - Added "Create static" button in Status -> Network -> LAN which bind DHCP lease for device
 - Updated Status -> Network -> Mobile page layout
 - Added bandwidth, provider in Status -> Network -> Mobile page
 - Added colors for signal strength values in Status -> Network -> Mobile page
 - Added frequency, pcid, mcc, mnc and LAC values in Status->Network->Mobile page
 - Refactored network type selection in Network -> Mobile -> General page
 - Serving cell information is not returned anymore when SIM card is not inserted
 - Added button in a Scanned operators table which allows to add an operator to the operator list
 - Added search bar in Mobile Utilities -> SMS Utilities page
 - Added SMS sent and limit count to Network -> Mobile -> General page
 - Updated Mobile Signal graphs to show EC/IO and RSCP values when network type is 3G
 - Added DFS channel marking in Network -> Wireless
 - Show wireless MAC address even when interface is inactive in Status -> System page
 - Merged Multi AP configuration to wireless interface edit modal
 - Added automatic network switch to bridge if selected in Wireless configuration
 - Added default encryption for newly created wireless interfaces
 - Simplified "802.11r Fast Transition" configuration options in Wireless interface configuration
- **System**
 - Updated kernel version to 5.4.251
 - Updated UCI version to 2021-10-22
 - Updated SSHFS version to 3.7.1
 - Updated FRR suite to 8.4.2
 - Updated cURL version to 8.2.0
 - Updated TCPdump version to 4.99.4
 - Updated C-ares version to 1.19.1
 - Updated curl version to 7.88.0
 - Updated iproute2 version to 5.19.0
 - Updated libubox package version to 2021-08-19
 - Added CVE patch CVE-2023-2650
 - Added additional firmware information in CLI prompt banner
 - Connection mode LED now blinks on data transfer

- Changed "routename" to "devicename" in system config file
- Made all clients get disconnected out once dropbear service is disabled
- Improved firmware downgrade restrictions for certain regions
- Device name is now displayed in browser tab when in WebUI login page
- Added NF conntrack information in generated troubleshoot archive

- **Fix**

- **Network**

- Fixed UDP Broadcast Relay service crashing on start without physical network device
- Fixed SMS limit period migration
- Fixed SMS limit size breaking various functionality
- Fixed custom IPv6 DNS option not overriding default DNS from operator
- Fixed an issue with blacklist and whitelist connection
- Fixed multipart SMS handling
- Fixed wrong SIM state display when SIM is fully blocked
- Fixed incorrect virginmobile APN MNC
- Fixed mobile operator scanning fault when no mobile interfaces are active
- Fixed mobile interfaces generating multiple events on mobile connection
- Fixed PDU SMS parsing when operator provides user data header in single part SMS
- Added scheduled data limit clear for inactive mobile interfaces
- Fixed wrong or empty WAN state info
- Fixed Wireless scanning issue with certain configuration
- Fixed Wireless transmit power changing without user input after saving different country code
- Fixed clients isolation functionality in Wireless
- Fixed Wireless STA authentication failure in case of channel change
- Fixed Multi AP startup when changing Multi AP configuration in Wireless
- Fixed client connection to EAP Wireless network
- Fixed LTE band 14 management with Quectel modems
- Fixed Wireless disconnection issues
- Fixed connection tracking for main interface in Failover

- **Services**

- Fixed reconnecting to inactive connections for Modbus Server service
- Fixed Modbus Client response after reboot write request
- Fixed Modbus Server to show error when trying to get operator name without SIM
- Updated Modbus Client to handle large numbers of schedule rules, when frequency is set to schedule (Daini)
- Fixed "Input" rule displaying incorrect and missing ports in Network -> Firewall -> Traffic Rules
- Fixed WireGuard VPN endpoint resolving problem
- Peer cache is no longer deleted when ZeroTier service is restarted
- Fixed RMS data collection about the list of devices connected to WiFi
- Fixed showing incorrect Internet state in RMS
- Fixed WiFi client info display in RMS
- Implemented error handling when device is blocked or unrecognized by RMS
- Fixed L2TP client sometimes not adding routes on successful connection
- Fixed NTP time sync with browser functionality in some edge cases
- Fixed reinstalled packages" verification when device name is changed
- Fixed an issue where signal query would return invalid value instead of error in case of no signal in MQTT Publisher service

- Fixed OpenVPN firewall rule creation for both IPv4 and IPv6
 - Fixed OpenVPN server crash loop after changing authentication from TLS to Static Key
 - Fixed IPsec VPN connection problem with small lifetime values
 - Fixed IPsec "Default Route" not working when Flow Offloading is enabled
 - Fixed an issue where system directory could be used as a mount point in SSHFS service
 - Fixed IP block feature to unblock an OpenVPN IP address on successful authentication
 - Fixed package installation process bug when packages have different architecture names
 - Added "bearer token" authentication functionality in Dynamic DNS
 - Fixed MQTT Broker "local_port" option keep settings migration
 - Remove public keys when key-based authentication is disabled in Access Control
 - Fixed "Parity" field "Mark" and "Space" options being ignored in DNP3 Serial services
 - Corrected SNMP MIB file syntax according to standards
 - Fixed returned port count in SNMP
 - Fixed disabled CLI remote access taking up a session slot
 - Fixed received SMS messages" parsing with trailing whitespaces
 - Fixed VPN status rule message text in SMS Utilities
- **WebUI**
 - Fixed empty events cards in Overview page when no content is available
 - Fixed modal form inputs not clearing upon closing after nested modal is saved
 - Fixed select menu closing when selecting custom option
 - Fixed multi select expanding table row when adding new values
 - Fixed global section caching after deleting a section in a table
 - Fixed unpredictable search logic in tables
 - Fixed interfaces reordering by metrics in Failover page
 - Removed ability to select ports on ICMP and ESP protocol in Failover page
 - Fixed wrong status when interface is disabled in Failover page
 - Fixed firewall zone and rule creation/deletion on VPN configuration creation/deletion
 - Fixed STP enabling issue in Interfaces
 - Fixed EIGRP status info in Dynamic Routes
 - Fixed issue with custom DHCP options where you could not have multiple values per rule
 - Fixed Routing/NAT Offloading section display in Network -> Firewall -> General Settings when device is not supported
 - Fixed SSH/HTTP/HTTPS/ICMP setting in Network -> Firewall -> Attack Prevention page
 - Fixed failing Firewall rules with united protocol formats
 - Fixed zone select component not closing options menu when selecting an option in Firewall pages
 - Fixed memory leak when cancelling file uploads on Chromium-based browser
 - Fixed group settings saving by removing deprecated ":section" routes in Administration -> User Settings -> System Users
 - Fixed allowing IDs above 247 in Modbus Client service
 - Fixed selecting SIM in Modbus Client service Alarms
 - Fixed Modbus Alarm telephone number limit
 - Fixed to show available options for test requests on error in Modbus Client service

- Fixed Modbus Alarm I/O pin display values
- Fixed issue when creating instance named "gre" does not show in GRE VPN
- Remote endpoint field now allows underscore character in IPsec VPN
- Fixed ZeroTier wrong service status display in Status -> Services
- Fixed problems with L2TP/PPTP VPN firewall rules automatic creation
- Fixed problem related to the enable/disable toggle in OpenVPN instance overview page
- Added fixes for key-direction missing problem when uploading OpenVPN config file
- Fixed login page read-only inputs after custom user logout
- Fixed issue when double clicking firmware upgrade cancel button returned error
- Fixed Package Manager prompt message to appear when package requires network restart
- Fixed showing in queue packages when they contained special symbols in the Package Manager page
- Fixed various visual Side Widget bugs
- Fixed Data to Server DNP3 filter from flash display
- Fixed incorrect source data displayed in Realtime Data -> Connections table
- Fixed memory expansion confirmation prompt title
- Fixed incorrect configuration saving in Hotspot 2.0 service
- Disabled password hashing for new user creation in Hotspot service
- Fixed Hotspot landing page themes saving bug
- Fixed test email sending to more than one recipient in Events Reporting page
- Fixed VLAN OID values in SNMP service
- Output proper error message in case of hardware not being supported in Firmware Upgrade
- Fixed being able to open side widget when user does not have read access
- Fixed profile creation when current configuration is not present
- Fixed wrong protocol data display in "Access control" page
- Fixed LAN interfaces not showing up before WAN interfaces in Status -> Realtime Data -> Traffic
- Fixed carrier aggregation information when no connection is made or SIM card is not inserted
- Changed representation of mobile cell ID from hexadecimal to integer type
- Fixed Mobile Utilities "SMS forwarding to HTTP" URL generation
- Fixed an issue where sometimes bands were not represented correctly on certain modems
- Fixed provider information and IMSI value representation when SIM and modem cannot provide this information
- Fixed mobile pages throwing 404 error when modem disconnects
- Fixed WebUI showing mobile connection when no SIM card is inserted
- Updated Network -> Wireless interface add and delete button visibility in basic mode
- Fixed Wireless Multi AP incorrect SSID list after removal of an instance
- Fixed MAC address filtering in Network -> Wireless page to list only connected WiFi devices
- Fixed "Clear Collect Data" button logic to not clear overall mobile usage info
- Fixed "Used data" showing large negative numbers for disabled mobile interfaces with Data Limit enabled
- Fixed error when user has no write permissions in Speed Test page

- **System**

- Patched CVE-2023-0386 vulnerability
 - Patched CVE-2023-0464 vulnerability
 - Patched CVE-2023-0465 vulnerability
 - Patched CVE-2023-2602 vulnerability
 - Patched CVE-2023-3772 vulnerability
 - Patched CVE-2023-4128 vulnerability
 - Patched CVE-2023-33476 vulnerability
 - Patched CVE-2023-28484 vulnerability
 - Patched CVE-2023-29469 vulnerability
 - Patched CVE-2023-31490 vulnerability
 - Patched CVE-2021-36369 vulnerability
 - Patched CVE-2023-48174 vulnerability
 - Delayed Custom Scripts execution on boot, after storage devices are mounted
 - Fixed Custom Scripts permissions after save
 - Changed certificate expiry calculation mechanism to fix Y2K38 bug
 - Fixed downloading of certificates that have a space in their name in Administration
-> Certificates -> Certificates Manager
 - Fixed Events Log database rotation to prevent log partition space exhaustion
 - Fixed duplication and sorting of all events IDs in Events Log
 - Fixed FOTA crash when current hours is with leading 0
 - Fixed crontab job removal after disabling FOTA
 - Changed Mosquitto build options to not include cJSON library
 - Fixed device name resetting to default upon refresh in Administration
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- **New features**
 - Initial FW release