RUT360 Firmware Downloads

Main Page > RUT Routers > RUT360 > **RUT360 Firmware Downloads**

This page contains firmware files for RUT360 devices. Look to the table below or the changelog to find download links.

To upgrade firmware using WebUI, follow the instructions in RUT360 Firmware.

RUT360					
File	**Type**	**Release date**	**Size**	**MD5**	**Changelog**
RUT36X_R_00.07.07.1_WEBUI.bin	Latest FW	2024.05.03	11.38 MB	9774d7952bed30e0b494fee366724c2a	Link
RUT36X_R_00.07.06.10_WEBUI.bin	Mass production FW	2024.04.04	11.31 MB	4af043370d46275a05e7672ebbe1706f	Link
RUT36X_R_GPL_00.07.07.1.tar.gz	SDK	2024.05.03	20.0 MB	cac8dcc06d67f103dd52698fce08e3aa	

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

RUT36X_R_00.07.07.1 | 2024.05.03

- **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
    - Mobile: improved connection establish time for uqmi protocol
    - 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
        - 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
        - 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
        - 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
        - Dnsmasq: updated dnsmasq to version 2.89
    - **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
- 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
- OpenVPN: added the bridge option for selecting the network device to be bridged with
- OpenVPN: added possibility to create more than one TAP client
- 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
  - WebUI: improved first login password change logic
  - Certificates: updated Root CA certificates
  - GPL: added offline package preparation command for GPL builds
  - Speedtest: added multiple connections support to improve accuracy
  - 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 denied roaming flag set
    - 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
- 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
  - Data to Server: fixed DLMS data formating
  - 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
  - Azure IoT Hub: fixed 'contentType' telemetry message parameter
  - 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
  - PPTP: fixed problem related with routes when failover is enabled
  - 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
  - JavaVM: fixed package installation
  - 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-2024-2397
    - CVE-2024-25062
    - CVE-2024-27913
    - CVE-2024-22365

[RUT36X_R_00.07.06.10](#) | 2024.04.04

- Global changelog for **R_00.07.06.10** - [LINK](#)

RUT36X_R_00.07.06.8 | 2024.03.25

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

[RUT36X_R_00.07.06.6](#) | 2024.03.04

- Global changelog for **R_00.07.06.6** - [LINK](#)

[RUT36X_R_00.07.06.5](#) | 2024.02.21

- Global changelog for **R_00.07.06.5** - [LINK](#)

[RUT36X_R_00.07.06.3](#) | 2024.01.17

- Global changelog for **R_00.07.06.3** - [LINK](#)

[RUT36X_R_00.07.06.1](#) | 2024.01.04

- **Fix**
  - **Services**
    - Fixed issue with NTPclient zombie processes

[RUT36X_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 (pasikeitė puslapiavimo logika nei prieš tai buvusi)

- 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 hostapd version to 2023-09-08
    - 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
  - **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

- **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

[RUT36X_R_00.07.05.4](#) | 2023.11.09

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

[RUT36X_R_00.07.05](#) | 2023.10.09

- **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
- Software Offloading enabled on default configuration
- 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
    - Possiblity 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
  - **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 seperate 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 seperate 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
  - Changed default "Check interval" option value in Network -> Mobile -> SIM Switch page
  - 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 "routername" 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 authentification 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 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 authentification 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 authentification
  - 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-2023-36369 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

RUT36X_R_00.07.04.5 | 2023.07.24

- **Improvements**
  - **Network**

- - Added metric field support in BGP Route-maps page
- **Fix**
  - **Network**
    - Fixed an issue with MBN selection when device is started for the first time
    - Fixed an issue where MBN activation would not be successful
    - Fixed service provider parsing when operator does not provide all fields for Quectel modems

[RUT36X_R_00.07.04.4](#) | 2023.06.26

- **New**
  - **Network**
    - Travelmate package for captive portal redirection

- **Improvements**
  - **Network**
    - Improved mobile operator query methods and operator name parsing in various services
  - **Services**
    - Improved UPNP lease file validation
  - **System**
    - Device name is now displayed in browser tab when in login page

- **Fix**
  - **Network**
    - Fixed a connection issue with bridge/passthrough mode when reconnecting ethernet cable
    - Fixed long mobile operator list parsing for whitelist/blacklist functionality
    - Patched CVE-2023-32233 vulnerability
    - Fixed an issue with Multi AP service remaining enabled when disabling
    - Fixed default networks in WAN firewall zone and possibility to add a network that is not yet created

  - **Services**
    - Fixed connection establishment for RMS MQTT service
    - Implemented partial restart when connection with RMS server fails
    - Fixed device name resetting to default upon WebUI page refresh
    - Fixed being able to set device name without passing validations
    - Fixed WireGuard port change in firewall traffic rule when modifying instance port

[RUT36X_R_00.07.04.3](#) | 2023.05.11

- **Improvement**
  - **System**
    - Optimized firmware image size
    - Removed SSH RSA key generation
    - Added SSH ECDSA key generation

- **Fix**
  - **Network**
    - Fixed an issue with mobile when Call Utilities configuration is invalid
    - Fixed clients being unable to connect to wireless AP when multi AP configuration

is empty
- Fixed an issue where sometimes PIN/PUK code was deleted when performing a SIM switch
- **Services**
  - Fixed incorrect mobile data usage provided to RMS service
- **System**
  - Fixed an issue on bootloader web recovery hanging with certain firmware sizes

[RUT36X_R_00.07.04.2](#) | 2023.04.04

- **New**
  - nftables support

- **Improvement**
  - **Network**
    - Added PDP profile registry and LTE SMS format functions & management for the Verizon network
    - Improved SIM detection algorithm
    - Improved Multi-APN connection establishment time
  - **WebUI**
    - Improved Overview page performance
  - **System**
    - Changed hostname to router name
    - Updated OpenSSL to version 1.1.1t
    - Updated CA certificates to version 20211016
    - Updated libiwinfo to version 2022-08-19

- **Fix**
  - **Network**
    - Fixed IPv4, IPv6 mobile connection restarts
    - Fixed operator scanning when mobile interface is disabled
    - Fixed data limit and tracking when software flow offloading is enabled
    - Added network reload call before bringing the mobile interface up
    - Fixed Port-based VLAN ID calculation issue
    - Fixed PDP context authentication when using special characters
  - **Services**
    - Fixed event text for configurable inputs/outputs on I/O Juggler
    - Fixed I/O PIN3 value not changing via MODBUS TCP
    - Added I/O status request error handling in various WebUI pages when the I/O service is booting up
    - Fixed wrong timezone returned issue in Operator Station Synchronization & Timezone Synchronization
    - Fixed MODBUS TCP Slave memory leak issue when requesting mobile parameters
    - Fixed OpenVPN enabling/disabling when using Password or TLS/Password authentication modes
    - Fixed OpenVPN keep alive setting migration issue
    - Fixed PPTP server name setting migration issue
    - Fixed missing WebUI issue caused by Email Relay installation
    - Fixed NTP's Operator Station Synchronization memory leak issue
    - Fixed test email validation
  - **System**
    - Fixed libcares vulnerability CVE-2022-4904

- Fixed frr vulnerability CVE-2022-37035
- Removed ability for non root users to edit scripts that get executed as root

RUT36X_R_00.07.04.1 | 2023.03.24

- **Fix**
  - **Network**
    - Fixed Data Limit issue

RUT36X_R_00.07.04 | 2023.03.07

- **Improvements**
  - **WebUI**
    - Improved data persistence between page refreshes
    - Improved page navigation behavior
    - Improved redirect logic to open configuration edit modals
    - Updated the 'Status -> Mobile' page
    - Updated interface card in the Overview page
    - Separated Sent and Received data bars on the chart in the Mobile Usage page
  - **Network**
    - Added an info message displayed when a faulty SIM card is inserted
    - Added ResIOT operator's APNs to the APN database
    - Improved mobile connection re-establishment after reboot
    - Improved mobile connection recovery in cases where it was lost unexpectedly
    - Improved 'Deny data roaming' operation when switching between operators
    - Changed default WiFi AP cipher to CCMP (AES)
    - Added the logging of MAC addresses rejected by a WiFi AP
  - **Services**
    - Added MQTT support to I/O Juggler
    - Added an error message when trying to send an SMS from the 'Send Messages' page with no SIM card inserted
    - Changed the behavior of setting the 'Write to config' flag in the 'mobileoff' SMS rule
    - Added argument support for the 'Execute custom script' SMS rule
    - Added a frequency option 'schedule' Modbus Master
    - Added pagination to Events Reporting overview
    - Added limit to Events Reporting rule list
    - Added email logging for Events reporting
    - 'Sync with browser' button in the NTP page now also synchronizes the time zone
    - Added a limit of 30 for NTP instances
    - Made Networks selections in the 'Traffic Logging' page to display interface choices dynamically
    - Added "make before break" option to IPsec configuration
    - Added MODBUS TCP connection handling layer to MQTT-MODBUS Gateway
    - Improved MODBUS Master connection handling to reduce connection count
    - Updated modbus request error messages
    - Added OpenVPN server ip block support
    - Added MQTT support for MODBUS Master alarms
    - Added the possibility to get the device's Ethernet port data via SNMP
  - **System**
    - Updated bash to version 5.1.16
    - Added detailed FW update failure error message to Events Log

- Improved firmware upload/validation error messages
- Updated Turkish language support
- Added protocol column to IP block page
- Added "vpns.log" file to the Troubleshoot package
- Added Wireguard tunnel information to the Troubleshoot package
- Updated default admin group access rights
- Updated DFOTA notification to show "More info" only when the update is forced

- **Fix**
  - **WebUI**
    - Fixed MAC address showing on mobile interfaces
    - Fixed mobile cell ID displaying in hexadecimal
    - Fixed mobile data limit card creation in the Overview page
    - Fixed modem widget disappearing from the Overview page
    - Fixed Services page not displaying data after Thingworx package is installed
  - **Network**
    - Fixed interface priority change issue
    - Fixed a Custom Firewall Rule editing issue
    - Fixed DMZ configuration saving while it is disabled
    - Fixed Port Scan script execution failure
    - Fixed Firewall zone duplication issue
    - Fixed call function when VoLTE is disabled
    - Fixed VoLTE control when IMS is not enabled
    - Fixed mobile IPv6 IP checking when the device didn't get a correct IP address
    - Fixed APN authentication when using empty credentials
    - Fixed manual APN selection from list
    - Fixed disabled WiFi interface after factory reset
    - Fixed WiFi interface creation with SAE mixed encryption
  - **Services**
    - Fixed I/O Scheduler overlapping instances issue
    - Fixed Input/Output image pin colors
    - Fixed issue that causes ADC subscribers to receive notifications for when ACL is active
    - Fixed WiFi Hotspot landing page uploaded theme image display
    - Fixed WiFi Hotspot trial user deletion issue
    - Fixed WiFi Hotspot service crash when associated WiFi interface is not up
    - Fixed WiFi Hotspot password request by SMS
    - Fixed WiFi Scanner starting process when the WiFi interface is disabled
    - Added limitations on message size and quantity of email messages in Email to SMS
    - Fixed SMTP HELLO value parsing issue
    - Fixed SMS message window reset button
    - Fixed not being able to save empty 'Message text' field in Auto Reply
    - Fixed multi-part SMS concatenation
    - Fixed multi-part SMS processing
    - Fixed SMS error message on 'Mobile Data Reset' action
    - Fixed Data To Server JSON format %n, %N and %s flag issues
    - Fixed Events Reporting email data clean
    - Fixed Events Reporting missing config selections
    - Fixed GRE Tunnel's 'Tunnel source' field validation when the source is custom
    - Fixed IPsec instance deletion after removing DMVPN package
    - Fixed IPSec migration via Backup file when DMVPN is configured

- Fixed IPsec naming issue when the includes an equals sign
- Fixed L2TP client to use correct interface on failover events
- Fixed L2TP over IPsec connection dropping issue when connecting from a Windows client
- Fixed MODBUS database size limiting issue
- Fixed MODBUS MQTT Gateway client ID input
- Fixed MODBUS TCP Slave RSSI value
- Fixed MODBUS test button returning errors when several non-connected devices are configured
- Fixed NTP Etc/GMT+1 and Etc/GMT-1 time zones
- Fixed OpenVPN password validation when no CA certificate is uploaded or 'custom' template is selected
- Fixed OpenVPN Static Key configuration saving by making Static key upload required
- Fixed OpenVPN TLS client creation issue while LAN is down
- Fixed Package Manager displaying non-existent packages
- Fixed Package Manager errors showing up after successful installations
- Fixed Periodic Reboot entry duplication after a power cycle
- Fixed PPTP 'Client to client' option not being applied after save
- Fixed receiving excessive device state emails after a reboot is initialized over RMS
- Fixed WebUI unavailability after unsuccessful package install
- **System**
  - Fixed vulnerabilities CVE-2022-3524, CVE-2022-3566, CVE-2022-3567, CVE-2022-39188, CVE-2022-45934, CVE-2022-47929
  - Fixed bash vulnerability CVE-2022-3715
  - Fixed CGI-IO file download vulnerability CVE-2022-38333
  - Fixed libxml2 vulnerability CVE-2022-40304
  - Fixed libcurl vulnerabilities CVE-2022-43551 and CVE-2022-43552
  - Improved file upload logic
  - Fixed GPL firmware compilation with selected Tinc package
  - Fixed OpenVPN Static Key migration via keep settings issue
  - Fixed NTP time zone name setting migration when the name contains whitespaces
  - Fixed language setting issue
  - Fixed integer validation on industrial services
  - Fixed LED indications when PDP type is IPv6
  - Fixed issues with PDP type and SMS limit period migration via keep settings

[RUT36X_R_00.07.03.4](#) | 2023.02.09

- **Fix**
  - **Network**
    - Changed generic modem restart method
    - Fixed mobile page VoLTE switching issues
    - Fixed CVE-2023-32349 vulnerability
  - **Services**
    - Sanitized tcpdump storage location

[RUT36X_R_00.07.03.3](#) | 2023.01.25

- **Fix**
  - **Network**
    - Fixed disabled WiFi interface after factory reset

[RUT36X_R_00.07.03.2](#) | 2023.01.13

- **New**
  - **System**
    - Japanese language

- **Improvements**
  - **Network**
    - Optimized mobile netifd script installation

- **Fix**
  - **Network**
    - Shortened modem hang monitor timeout
    - Fixed VLAN option setting when changing VLAN ID

[RUT36X_R_00.07.03.1](#) | 2023.01.03

- **Improvements**
  - **System**
    - Remove front-end certificate validation
  - **Network**
    - Optimized mobile netifd script installation

- **Fix**
  - **Network**
    - Fixed modem communication validation
    - Fixed connection establishment in IPv6 only mode
  - **Services**
    - Fixed libxml2 vulnerability CVE-2022-40303
    - Fixed an IPsec Phase one & two setting migration issue
  - **System**
    - Fixed JSON key parsing; keys can now be any printable character sequence
    - Fixed memory leak in 'session' module
  - **WebUI**
    - Fixed file pretty name parsing

[RUT36X_R_00.07.03](#) | 2022.12.16

- **New**
  - **Network**
    - Firewall DMZ page
  - **Services**
    - Java package
    - SFTP server support
    - OPC UA client
    - Hotspot registered users management page
  - **System**
    - Portuguese language
    - Spanish language
    - Turkish language
    - Email Relay package
  - **WebUI**
    - New Web menu design

- **Improvements**
  - **Network**
    - Updated modem handling, attachment, tracking and connection establishment processes
    - Added the possibility to select multiple ports in all firewall port fields
    - Added 'Match' traffic by type option to firewall traffic rules
    - Added DNS servers and routing table fields to the Wireguard page
    - Improved generating network topology
    - Moved Relayd, UDP Relay & Static Leases to the Interfaces menu section
    - Update Firewall Traffic Rules page with DSCP and MARK options
    - Added keepalive, holdtime and connect timers to BGP configuration
    - Added 'Use gateway metric' to network protocols web interface
    - Added more DHCPv6 client events to system log
    - Moved IP Filter rules from Modbus TCP Gateway and Over IP services to Firewall page
    - Added option to select subnet parameters in mobile Passthrough/Bridge modes
    - Added WhereverSIM operator APN and fr.lebara.mobi APN to APN database
    - Added mobile connection state for IPv6
    - Added individual WiFi toggle support
    - Added error message when DFS channel is selected during scanning
  - **Services**
    - Added CSP headers to Hotspot Landing Page
    - Added hotspot user script validation
    - Improved logging of disconnecting client devices
    - Implemented Hotspot 'forget' method, which removes user from DB by MAC
    - Updated Zerotier web interface
    - Added IPsec Flush connection option on tunnel initialization
    - Added MODBUS slave regfile validation
    - Added delay, number of timeouts, always reconnect options to MODBUS Master service
    - Added DMVPN Phase 2 and Phase 3 support
    - Added synchronization counting to NTP client
    - Expanded the data that is sent to the Cumulocity cloud with device log, mobile data usage nd GPS data
    - Added 'Unregister' button to RMS page
    - Added new data monitoring options to SNMP: configuration state of wireless, smart queues & VLANs
    - Updated Zerotier package to version 1.10.1
    - Added automatic package removal upon failed installation in Package Manager
    - Added option to describe custom routing table and MTU auto counting to Wireguard VPN
    - Added IP blocking to MQTT Bridge for failed login attempts to prevent bruteforce attacks
    - Updated sqm-scripts to version 1.5.1
    - Improved MODBUS Master service: added multiple datatypes, added multiple register reading for alarms
    - Added monthly reboot option to periodic reboot function
    - Added support for multiple custom option selection to SSTP configuration
    - Added PKCS12 certificate chain support to OpenVPN
    - Improved MQTT to support multiple port listening, multiple bridge connections, notification settings and added support for custom configuration file

- Added QoS selection to MQTT Modbus Gateway
- Improved RAM usage during upload and installation of packages via Package Manager
- Updated curl to version 7.86.0
- Added brute-force prevention measures to Post/Get
- Added automatic private and public key generation to Wireguard VPN
- Added multiple Remote source IP support to IPsec
- Added the possibility to configure multiple IPsec phase 1 and phase 2 proposals
- Added functionality to rotate log file when log is saved to Flash memory
- Improved performance while fetching packages on repeat visits to the Package Manager page
- Added execute custom script SMS Utilities rule
- Added receiver and transceiver mode support to SMPP
- Added timezone synchronization with GSM operator option to NTP Client
  - **System**
    - Added a 'test mail' button to the Administration -> Recipients page
    - Added option to clear blocked IPs in the Access Control page after reboot
    - Updated Web Request-Response core logic
    - Added certificate validation to all services that support certificate upload
    - Updated URL protocol validations
    - Removed profile update requests during Save & apply
    - Optimized profile switching logic
  - **WebUI**
    - Added an indication to the Interfaces page that displays when data limit is enabled
    - Added an indication to the Interfaces page that displays when data limit is enabled
    - Added bootloader version to the Device section in the System page
    - Added configuration page shortcuts to Overview page widgets
    - Added tooltip in Overview that show free, used and total RAM/Flash values on mouse cursor hover
    - Updated network interfaces protocols web interface
    - Updated 404 page to include navigation menu

- **Fix**
  - **Network**
    - Fixed CVE-2023-32350 vulnerability
    - Fixed jumbo frames MTU issue
    - Added the 'Any' choice to source & destination IP address field in NAT rule edit
    - Fixed NHRP web interface issues
    - Fixed WAN interface configuration interfering with LAN
    - Fixed mdcollect memory leak issue
    - Fixed data limit not resetting properly
    - Fixed incorrect mobile data usage calculations for multiple day periods
    - Fixed an Auto APN 'Keep settings' issue
    - Fixed data counting after mobile data limit has been reached
    - Fixed mobile band not setting correctly on first try
    - Fixed incorrect data limit conditions causing unwanted SIM switches
    - Fixed Passthrough DHCP lease time setting
    - Fixed mobile bridge mode issue when no DNS servers are supplied
    - Added new Operator Lists instance name validations
    - Fixed mac80211 vulnerabilities CVE-2022-41674, CVE-2022-42719, CVE-2022-42720, CVE-2022-42721, CVE-2022-42722

- Fixed wireless interfaces connections not reestablishing after disabling & enabling again
- Added wget tracking method to WAN Failover
- Added interface checks to remove inaccurate Failover events from the Event Log
- Fixed Wired WAN connectivity issue when Failover interfaces are disabled
- Fixed Failover fallback issue
  - **Services**
    - Fixed relay state switching
    - Fixed Save & Apply issue with ADC/ACL type condition on I/O Juggler
    - Added I/O restart on configuration profile change
    - Fixed I/O voltage range display for power socket pins
    - Fixed SMNP OID for I/O state
    - Fixed I/O Juggler SMS text message Save & Apply issue
    - Fixed Hotspot connected user list maximum upload/download value limits
    - Fixed incorrect connected Hotspot user information in RMS JSON
    - Removed unnecessary field from the Port Mirroring page
    - Fixed Hotspot issues related to specific connected phones
    - Fixed Wireless AP enabled by MODBUS TCP Master not showing in Wireless clients
    - Fixed WiFi Scanner hostname validation issues
    - Fixed UCI SMS Rule return message to display new changes
    - Fixed DNP3 issues when asking for modem temperature
    - Fixed base64 encoding of SMS messages when forwarding to HTTP
    - Fixed SMS sending issues when using multiple APN
    - Added Gateway modem option to IP Block and WoL in SMS Rule edit
    - Fixed unblocking IP addresses with an SMS message
    - Fixed Mobile Utilities page not load properly on some occasions
    - Fixed dbus vulnerability CVE-2020-35512
    - Fixed dnsmasq vulnerability CVE-2022-0934
    - Fixed ext4 vulnerability CVE-2021-3428
    - Fixed kernel vulnerabilities CVE-2021-3669, CVE-2021-4203, CVE-2022-1353, CVE-2022-3435, CVE-2022-20008, CVE-2022-30594
    - Fixed libxm12 vulnerability CVE-2022-29824
    - Fixed Linux vulnerabilities CVE-2021-4148, CVE-2022-0480, CVE-2022-1055, CVE-2022-0886, CVE-2022-2663, CVE-2022-36879 for v5.4
    - Fixed MQTT DoS vulnerability CVE-2021-41039
    - Fixed privoxy vulnerability CVE-2021-44542
    - Fixed python3 vulnerability CVE-2022-42919
    - Fixed strongswan vulnerabilities CVE-2021-41991, CVE-2021-45079
    - Fixed uboot vulnerabilities CVE-2022-30552, CVE-2022-30790
    - Fixed switching between RMS connection types while the device is unregistered
    - Fixed reload issues in website blocking feature
    - Fixed IPsec PSK secret required field validation
    - Fixed bandwidth limiting after QoS is enabled for the first time
    - Fixed Dropbear issues when logging in over IPv6
    - Fixed Modbus status in Status -> Services page
    - Fixed Azure IoT Hub application issues when sending large volumes of data
    - Fixed Azure IoT Hub MQTT password validation
    - Fixed DMVPN configuration migration issue
    - Fixed DMVPN duplicate select options, added suffix to mobile interfaces to use IPv4

- Fixed DMVPN IPsec connection issue
- Fixed DMVPN mobile interface 'Keep settings' migration issue
- Fixed Dynamic DNS long hostname text display issue
- Fixed Events Reporting memory leak issue
- Fixed Events Reporting not triggering after flipping an I/O slider
- Fixed FOTA cron job not starting after factory reset
- Fixed IPsec local firewall option parsing
- Fixed IPsec tunnel creation issue when compatibility mode is used and the tunnel name contains an underscore
- Fixed L2TP, PPTP, SSTP state display in the Status -> Services page
- Fixed NTP pool hostname validation
- Fixed OpenVPN certificate remove with Static key and TLS authentication methods
- Fixed OpenVPN configuration saving issue when using HMAC key authentication
- Fixed OpenVPN custom dev name transformation to correct format
- Fixed OpenVPN device name setting logic when uploading config from file
- Fixed OpenVPN instance status display
- Fixed OpenVPN TAP (bridged) configuration detection
- Fixed Qos configuration saving issue occurring after instance deletion
- Fixed RMS JSON incorrect WAN state and IP information
- Fixed RMS step access issue in the Setup Wizard page
- Fixed SNMP issues after reboot while using a Hotspot
- Fixed SNMP generating MIB files for devices in accordance with to their hardware
- Fixed SNMP traps not working after SNMP is installed from server
- Fixed SSTP client route creation issue
- Fixed UPNP secure mode not turning off issue
- Fixed Wireguard route to endpoint issue
- Fixed manual package installation for queued packages
- Fixed NAT Rules dependency from IPsec web instance
- Returned usleep utility
- Updated Australian and South African NordVPN server IP addresses
- **System**
  - Fixed certificate signing issues
  - Fixed Telnet, CLI access blocking after max invalid tries
  - Fixed FW upgrade with 'Keep settings' while low free space is available
  - Fixed backup file duplication issue
  - Fixed network device handling in system
- **WebUI**
  - Fixed Hotspot interface display
  - Fixed side widget accessibility during first login
  - Fixed file upload issues
  - Fixed drag and drop issue in the Traffic Rules page
  - Fixed protocol display in the overview of the Interfaces page
  - Fixed blocked IP settings migration during a FW upgrade with the 'Keep settings'
  - Fixed login errors after browser tab restoration
  - Fixed redirect to newly set IP address after Interface configuration
  - Fixed firmware upgrade verify spinner not closing
  - Fixed an issue with file upload via drag and drop

[RUT36X_R_00.07.02.7](#) | 2022.09.12

- **Improvements:**
  - Improved manual-auto connection mode

- **Fixes**
  - Fixed AT command for SMS storage usage
  - Fixed CVE-2022-1012 memory leak vulnerability
  - Fixed CVE-2022-37434 kernel vulnerability
  - Fixed interface option reset after VLAN ID change
  - Removed memory leak on port events
  - Fixed WiFi Scanner out of range crash when iterating collected data

[RUT36X_R_00.07.02.6](#) | 2022.08.24

- **Improvements:**
  - Added 'home.vodafone.de' APN
  - Improved stability of device information storage

- **Fixes:**
  - Added SMSC type omitting when empty SMSC number parsed in SMS PDU mode
  - Fixed VoLTE management
  - Fixed OpenVPN tls-auth and tls-crypt option names

[RUT36X_R_00.07.02.5](#) | 2022.08.12

- Improvements:
  - Updated curl to version 7.83.1
  - Updated firmware validation error messages
  - Added multiple source IP address support to the Port Forwards page
  - Increased custom APN Username & Password field maximum length to 64 symbols
  - Added auto switch to modem's SMS storage when SIM card storage doesn't exist
  - Improved mobile connection status handling
  - Added CSP headers Hotspot WebUI landing page

- Fixes:
  - Fixed CVE-2022-32205, CVE-2022-32206, CVE-2022-32207, CVE-2022-32208 curl vulnerabilities
  - Fixed CVE-2022-30065 busybox vulnerability
  - Fixed file upload path traversal
  - Removed Data to Server limit to proccess less than 10 instances
  - Fixed Data to Server 'out of memory' crashes when database is full or has a large amount of data
  - Fixed OpenVPN dev setting logic
  - Fixed OpenVPN updating from legacy issue that caused IPv6 not to work
  - Fixed MAC and leasetime setting for Bridge & Passthrough modes
  - Fixed modal tabs navigation when editing wireless interface with non-english languages

[RUT36X_R_00.07.02.4](#) | 2022.07.20

- Improvements:
  - Added default password change warning message before firmware downgrade
  - Extended time period for device to make connection to operator

- Reduced the number of modem reboots when changing mobile settings
- Reduced excessive log output when no SIM card is inserted
- Added modem restart prevention on modem init
- Added disable RPLMN option in the SIM section of the SIM card config

- Fixes:
  - Fixed CVE-2022-2068 vulnerability
  - Disabled autoconnect on stop-network call
  - Fixed Hotspot login via landing page issue

[RUT36X_R_00.07.02.2](#) | 2022.06.27

- Improvements:
  - Updated FSTools package to version 2022-05-03
  - Added security headers to web requests
  - Added ping to DNS IPv6 support
  - Added modem reset to default state after device FW upgrade
  - Modem init now checks NVRAM sensitive commands before setting
  - GSM output was made consistent

- Fixes:
  - Fixed CVE-2019-12900 libbz2 vulnerability
  - Fixed CVE-2022-23303 hostapd vulnerability
  - Fixed CVE-2022-29581 Linux kernel vulnerability
  - Fixed CVE-2022-29458 ncurses vulnerability
  - Fixed CVE-2022-1292 c_rehash script command injection vulnerability
  - Fixed behavior of some gsmctl commands
  - Fixed band locking issue
  - Fixed race condition for wireless configuration initialization

[RUT36X_R_00.07.02.1](#) | 2022.06.06

- Improvements:
  - Improved GSM related messages in Troubleshoot logs

- Fixes:
  - Fixed default mobile network configuration generation
  - Fixed MODBUS write requests and Mobile Utils option setting

[RUT36X_R_00.07.02](#) | 2022.05.23

- **New features**
  - Overview side widget
  - IGMP Proxy
  - Privileged Access Management (PAM)
  - AWS Greengrass support
  - HTTPS certificate and key upload feature
  - SSH public keys edit box
  - License page
  - DNP3 data for Data to Server

- **Improvements**

- Updated busybox to version: 1.34.1
- Updated curl to version 7.79.1
- Added iptables filter package for string filtering
- Added CHAP authentication for L2TP VPN
- Added IPv6 support for L2TPv3 VPN
- Added EAP-MSCHAPV2 authentication method for IPsec VPN
- Added IPv6 support to Auto Reboot
- Added 'Save to flash' and 'Test configuration' button to DNP3 configuration page
- Updated SNMP version 5.9.1
- Added OpenSSL authentication options to SNMPv3
- Added support for OSPF redistribution options and OSPF neighbors
- Added password field to BGP Peers page
- Extended BGP "AS" field validation to accept integers up to 4294967295
- Added "DHE+RSA" to OpenVPN cipher selections
- Increased OpenVPN max password length from 128 bytes to 512 bytes
- Made HMAC key direction initial value dependent on the role of the instance (client or server)
- Made HMAC key and HMAC authentication key upload fields required
- Added DES to IPsec encryption algorithms selections
- Added special character support for CHAP secrets
- Added validation requirements for PPTP user list username field
- Added option to manually enter Public key in Wireguard configuration
- Made generating Wireguard keys possible only while in auto mode
- Added Events Log database to troubleshoot archive
- Added RFC1918 filter field
- Added the possibility to unblock multiple blocked devices at once
- Added 'Port' column to blocked login attempts table
- Added Speedtest server refresh
- Updated Speedtest server list
- Added asterisk option to Site Blocking
- Added MD5 and SHA256 checksums to package validation page
- Changed certificate requirements to only require client key file if client certificate is used
- Added pagination and data retention between table pages
- Added pagination functionality to tables when there are more than 10 records
- Improved table sorting by saving user provided sort settings in the browser
- Improved drag and drop functionality
- Added the possibility to drag and drop files onto upload components
- Moved 'Root CA' from the 'Access Control' page to the 'Certificates' page
- Added 'Strict-Transport-Security' response header for HTTPS
- Added 'breadcrumbs' to modal windows
- Improved initial WebUI loading after login
- Added mobile bytes sent and bytes received SNMP OIDs
- Added mobile LED turn off feature ('System -> Administration' page)
- Added 'iot.1nce.net', 'internet', 'VZWINTERNET' and Truphone APNs to APN database
- Updated mobile usage data point calculation logic
- Added the possibility to manually enter operator number
- Improved obtain mobile cell ID process
- Added modem restart if SIM card is removed during APN database fetching process
- Added unauthorized call logging
- Added space character support in SMS commands

- Disabled SMS modem storage configuration form when SIM is not inserted
- Changed SMS '%wi' parameter value to return IP address of any currently used WAN interface (not only wired)
- Added external modem SMS limit Overview card and widget
- Made in-use APNs visible next to mobile interface configurations (before clicking the 'Edit' button)
- Added duplicate value check for list configuration options
- Changed mobile card instance design
- Fixed 'Mobile Data usage reset' SMS rule
- Fixed the default state parameter of SMS list POST/GET command
- Added Hotspot configuration profiles
- Added local Hotspot user password hashing
- Added Hotspot password encoding option
- Improved Hotspot related firewall rule setting
- Improved WiFi Scanner enable switch to toggle 2 and 5 GHz instances separately
- Removed CHAP authentication protocol for WiFi Hotspots due to incompatibility with hashed passwords
- Added ubus support to Hotspot
- Changed default port name of WiFi devices for 'Topology state' Events Reporting rule
- Added I/O SNMP trap
- Added ISO 8601 time format to I/O Juggler's '%ts' parameter
- Added device name parameter '%pc' to I/O Juggler
- Added PPPoE VLAN priority support
- Made VRRP ping section dependent on main instance
- Added 'WAN to LAN' switch

- **Fixes**
  - Fixed CVE-2021-20322, CVE-2021-4197, CVE-2022-1011, CVE-2022-0847 kernel vulnerabilities
  - Fixed CVE-2022-28391 busybox vulnerability
  - Fixed CVE-2018-16789 shellinabox vulnerability
  - Fixed CVE-2021-44543, CVE-2021-44542 privoxy vulnerabilities
  - Fixed CVE-2021-43618 GNU Multiple Precision Arithmetic Library vulnerability
  - Fixed zlib backport security issue
  - Fixed Wireguard firewall zone assignment
  - Fixed queued packages disappearing from list after FW upgrade with keep settings
  - Fixed error message display for multiple input validation rules
  - Fixed incorrect DHCP validation range for start and limit fields
  - Removed 'Bring up on boot' option from network interface configuration pages
  - Fixed coma-separated DHCP options disappearing after save
  - Fixed exclude and listen interfaces
  - Fixed 'Use broadcast flag' option saving
  - Fixed firewall zone assignment when creating new interfaces
  - Fixed OpenVPN 'Netmask' and 'IP address' field validations
  - Fixed OpenVPN TAP configuration saving issue
  - Fixed OpenVPN switching to TUN mode when uploading a configuration from file
  - Fixed dynamic BGP route state display
  - Fixed BGP peer enable in edit page
  - Fixed issue when no L2TP client instance could be bound to IPsec
  - Fixed firewall rule and zone behavior related to config section creation
  - Added default value for L2TPv3 netmask, which is now written to config after save

- Fixed passthrough option saving to IPsec file
- Fixed DMVPN issue where instance configuration could not be saved
- Fixed Wireguard peer could not be saved issue
- Fixed NTP client time synchronization after factory reset
- Fixed device time display with selected time zone
- Fixed MODBUS TCP indexation missing bracket issue
- Fixed initial MODBUS TCP request count validation
- Fixed PIN 3/4 direction switching over MODBUS TCP
- Fixed MODBUS data to MQTT socket closing issue when connection fails
- Fixed MODBUS alarm configuration deletion
- Fixed DNP3 master not working after FW upgrade with 'keep settings'
- Fixed DNP outstation not returning error messages
- Added missing SNMP objects: mobile IP, data sent/received today
- Fixed MQTT Publisher 'Remote address' field validation
- Fixed long interface name support for Azure IoT Hub
- Increased maximum Azure IoT Hub 'Connection String' length to 4096 characters
- Fixed missing sent/received data issue
- Fixed URL input field length validation
- Fixed admin login issue after upload of backup from a device with older firmware versions
- Fixed MAC address formatting in Events reporting messages
- Fixed Events reporting DHCP lease message spam, when no new lease is added
- Fixed logging crashing after downloading Troubleshoot file
- Made Wake on LAN visible only on devices with Ethernet ports
- Fixed Traffic log file transfer to FTP server
- Fixed Web Filter service reloading after a host list file is uploaded
- Fixed access denied messages when sending JSON-RPC requests from root user
- Fixed error message display about duplicated intervals in Profile scheduler
- Fixed FW upgrade with 'keep settings' migration issue for Access Control's 'Fail count' and 'Device port' fields
- Corrected OSPF Routing card values, value positions and names
- Fixed global secret instances not being removed when there are no IPsec instances
- Fixed uploaded file remove icon not staying in position on hover
- Fixed Overview card collapse issue that made it unresponsive after too many clicks
- Removed WAN6 interface from the Overview page
- Fixed mobile IPv6 display in Events Reporting status messages
- Fixed Bridge mode when DNS2 is not available
- Fixed PAP/CHAP username and password fields not saving in interface edit window
- Fixed sending email without secure connection for providers that support such an option
- Fixed 'N/A' parameter showing up in SMS Utilities monitoring status message
- Fixed Call Utilities Events Log message for reboot rule
- Fixed SMS command validation for no-authorization option
- Fixed MODBUS SMS alarms 'Enable' option saving
- Fixed running RMS with no SIM card inserted issue
- Fixed firmware available on server version checking issue
- Fixed CVE-2020-15078 openvpn vulnerability
- Fixed storage calculation for packages
- SMS Utilities: enhanced service security
- Fixed firmware deletion after leaving the page
- Fixed setup wizard redirect after LAN IP change
- Fixed various validation bugs, typos, option hints & alignments

- Fixed multiple IPv6 configuration field validations
- Added multiwan support for Wireguard default route
- Fixed wireless signal strength display when no clients are connected
- Fixed loss of connectivity for clients when router is in STA+AP mode
- Added validation that prevents automatic connection to first unencrypted WiFi AP when using MULTI AP
- Fixed Wifi Scanner data not being stored in certain scenarios
- Fixed WiFi scanner not turning on after FW upgrade with 'keep settings'
- Fixed Hotspot user group limit not resetting on specified time
- Removed an RMS error message when no Hotspot users were created
- Fixed Hotspot landing page image upload issue
- Fixed relay output value display in I/O Juggler condition page
- Fixed I/O Juggler's WiFi rule not enabling or disabling WiFi interfaces
- Fixed I/O Juggler's double delete issue on I/O Juggler action and condition instances
- Fixed I/O Juggler's incorrect I/O status messages

[RUT36X_R_00.07.01.4](#) | 2022.02.25

- **New features**
    - DFOTA modem upgrade system for Quectel modems

- **Improvements**
    - Removed L2TP section title prefixes

- **Fixes**
    - Fixed IPSec crashing issue using mobile
    - Fixed FW flashing when chip is in unknown state
    - Fixed CPU usage percentage display in the Overview page
    - Fixed FOTA timeout issue when server does not respond
    - Fixed installation of backup packages
    - Fixed mobile data limit display after profile change
    - Fixed Bridge mode without multi-APN
    - Fixed multi mobile interface checking
    - Fixed error handling when the modem is not responding
    - Prolonged autoconnect setting timeout
    - Fixed OpenVPN server configuration with password authentication
    - Fixed NTP interval length validation
    - Fixed network interface enable after Drag & Drop
    - Updated NTP client interval to 24h
    - Fixed connection to whitelist carriers
    - Fixed Passthrough mode when DHCP is disabled
    - Fixed 'Deny data roaming' feature
    - Fixed mobile blocking dependency on region
    - Disabled Ping To DNS functionality when Bridge/Passthrough mode is enabled

[RUT36X_R_00.07.01.2](#) | 2022.01.04

- **New features**
    - DFOTA modem upgrade system for Quectel modems

- **Improvements**
    - Removed L2TP section title prefixes

- **Fixes**
    - Fixed IPSec crashing issue using mobile
    - Fixed FW flashing when chip is in unknown state
    - Fixed CPU usage percentage display in the Overview page
    - Fixed FOTA timeout issue when server does not respond
    - Fixed installation of backup packages
    - Fixed mobile data limit display after profile change
    - Fixed Bridge mode without multi-APN
    - Fixed multi mobile interface checking
    - Fixed error handling when the modem is not responding
    - Prolonged autoconnect setting timeout

RUT36X_R_00.07.01 | 2021.11.18

Note: Firmware version RUT36X_R_00.07.01 released on 2021.11.18 was removed due to an issue with IPsec tunnel while using mobile connection.

- **New features**
    - Load Balancing Rules
    - 802.11s based wireless mesh network support
    - Multiple Wireless AP feature
    - Tinc VPN
    - German language support
    - Manual-Auto operator select

- **Improvements**
    - Improved WebUI functionality when multiple browser tabs are open
    - Updated base to OpenWrt version 21.02
    - Updated kernel to version 5.4.141
    - Updated mtd-utils to version 2.1.2
    - Updated busybox to version 1.33.1
    - Updated ubus to version 2021-06-3
    - Updated ubox to version 2020-10-25
    - Updated rpcd to version 2021-03-11
    - Updated opkg to version 2021-06-13
    - Updated fstools to version 2021-01-04
    - Updated wwan to version 2019-04-29
    - Updated ethtool to version 5.10
    - Updated uhttpd to version 2021-03-21
    - Updated ppp to version 2020-10-03
    - Updated odhcpd to version 2021-07-18
    - Updated hostapd to version 2020-06-08
    - Updated dropbear to version 2020.81
    - Updated dnsmasq to version 2.85
    - Updated netifd to version 2021-07-26
    - Updated firewall3 to version 2021-03-23
    - Updated libjson-c to version 0.15
    - Updated libevent2 to version 2.1.12
    - Updated mac80211 to version 5.10.42-1
    - Updated wireless-regdb to version 2021.04.21

- Updated binutils to version 2.35.1
- Updated gdb to version 10.1
- Updated strace to version 5.10
- Updated trace-cmd to version 2.9.1
- Updated valgrind to version 3.16.1
- Updated ath10k-ct-firmware to version 2020-11-08
- Updated procd to version 2021-02-23
- Updated iw to version 5.9.8
- Updated iproute2 to version 5.11.0
- Updated iptables to version 1.8.7
- Updated nettle to version 3.6
- Updated libpcap to version 1.9.1 rel3
- Updated elfutils to version 0.180
- Updated cryptodev-linux to version 1.11
- Updated linux-firmware to version 20201118
- Updated util-linux to version 2.36.1
- Updated openwrt-keyring to version 2021-02-20
- Updated mtd to version rel26
- Updated fwtool to version 2019-11-12
- Updated ca-certificates to version 20210119
- Updated wireguard-tools to version 1.0.20210223
- Updated iwinfo to version 2021-04-30
- Updated ipset to version 7.6
- Updated gre to version rel12
- Updated wolfssl to version 4.7.0
- Updated ustream-ssl to version 2020-12-10
- Updated uclient to version 2021-05-14
- Updated readline to version 8.1
- Updated mbedtls to version 2.16.11
- Updated libusb to version 1.0.24
- Updated libunwind to version 1.5.0
- Updated libubox to version 2021-05-16
- Updated libnl-tiny to version 2020-08-05
- Updated libnftnl to version 1.1.8
- Updated libiconf-full to version 1.16
- Updated libbsd to version 0.10.0
- Updated gmp to version 6.2.1
- Updated ulogd to version rel6
- Updated sqm-scripts to version 1.5.0
- Updated ntpclient to version rel14
- Updated nmap to version 7.80
- Updated curl to version 7.77.0
- Updated zerotier to version 1.6.5
- Updated xtables-addons to version 3.13
- Updated xl2tpd to version 1.3.16
- Updated stunnel to version 5.59
- Updated strongswan to version 1.0.13
- Updated sstp-client to version 1.0.13
- Updated pptpd to version rel5
- Updated openvpn to version 2.5.3 rel2
- Updated ntpd to version rel3

- Updated net-snmp to version rel2
- Updated mosquitto to version 2.0.11
- Updated miniupnpd to version 2.2.1 rel 3
- Updated etherwake to version rel5
- Updated libzip to version 1.7.3
- Updated libgpg-error to version 1.39
- Updated glib2 to version 2.66.4
- Updated libnetfilter-conntrack to version 1.0.8
- Updated libnetfilter-log to version rel3
- Updated lzo to version rel4
- Updated nghttp2 to version 1.43.0
- Updated openvpn-easy-rsa to version 3.0.8 rel3
- Updated iperf to version rel2
- Updated iperf3 to version 3.10.1
- Updated e2fsprogs to version 1.45.6
- Updated fuse to version 2.9.9
- Updated udprelay to version 2020-02-26
- Updated qmicli to version 1.28.2
- Updated pcre to version 8.45
- Updated libsmpp34 to version 1.14.1
- Updated libiwinfo to version 2.1
- Added netifd library for additional information related to network interfaces
- Updated openssl to version 1.1.1l
- Updated privoxy to version 3.0.32
- Added ACL reload method for sessions
- Added 'Advertisement interval' field to the VRRP configuration window
- Added a PPTP-to-WAN Zone Forwarding rule when default route is enabled on PPTP client
- Added email user group validation for sendind test emails with Events reporting
- Added an event logging feature for Ping Reboot events
- Improved file/section deletion logic: now files are also deleted after deleting a related config section
- Improved package deletion logic
- Added the possibility to configure multiple reboot times in one Reboot Scheduler configuration instance
- Updated 'External system log server' field validation to accept IPv6 addresses
- Added redirect to Overview page after login
- Added WebUI session timeout after user inactivity
- Added placeholder text to dropdown menus
- Improved multi-select design and functionality
- Added Unix timestamp, local ISO time, UTC time to Modbus
- Added info message when selected file cannot be uploaded
- Improved IPsec throughtput
- Added IPSec "Compatibility mode" configuration support
- Made SNMP 'Community name' option editable
- Added the option to delete configurations to the SMS Utilities 'UCI' rule
- Added 'hour', 'week day', 'month day' slelection options to SMS Limit configuration
- Added Lithuanian and Verizon APNs
- Added modem selection for the 'Send SMS' option in Auto Reboot settings
- Added the possibility to get total data usage value without specifying time interval via ubus

- Added new configuration options to the Failover feature
- Changed Failover page availability from Advanced only both advanced and basic
- Made Failover Interfaces table rows draggable when in 'Load Balancing' mode
- Changed Failover page 'Ratio' fields to a smaller size
- Added the possibility to allow multiple Hotspot users to log in with the same SMS OTP
- Added 'Duplicate passwords are not allowed' error message to Hotspot landing pages
- Added 'Allow password duplicates' field to the Hotspot configuration page
- Improved wireless frequency option layout
- Added I/O support to SNMP
- Removed ubus list method due to security reasons
- Added MODBUS "%I, %T, %S, %r, %n" support to MODBUS Data Sender
- Removed search engine site crawling
- Improved IPSec "Local/Remote source" validation
- Added Firewall "all" and "custom" protocol options
- Added Backup file size limit of 2 MB
- Improved basic/advanced mode changing
- Improved Wireguard "IP Addresses" field validation
- Added language download support from language selection section
- Added PPTP "Client to client" configuration support
- Made DDNS "username", "password", "host" fields optional
- Added SSTP "Default route" configuration support
- Added SMS Limit hour, week day and month day support
- Added Passthrough "Leasetime" and "Unit" configuration support
- Added Call Utilities "Active Timeout" configuration support
- Added bgscan feature to wpa_supplicant
- Optimized Wireless device status information requests in all WebUI pages
- Added "Topology state" support to Events Reporting

- **Fixes**
    - Made RMS 'Connect' button disabled when a connection attempt is already in progress
    - Added validation for TLS Clients 'Private network' option
    - Fixed the validation range for MTU fields
    - Fixed removing firmware image file after leaving the fimware upgrade page
    - Fixed network selection list for Traffic Logging - added all available LAN networks
    - Fixed DHCP Options validation
    - Fixed configuration profile date display
    - Fixed blank page after invalid URL in login page
    - Fixed TR-069 related firewall rule loading
    - Fixed remote subnet netmask validation issues for the GRE Tunnel configuration
    - Fixed WebUI section toggle
    - Fixed package installation modal layout
    - Fixed current page values showing up in login page username field
    - Fixed the possibility to create section with a name that is already in use in the same config file
    - Fixed OpenVPN username and password deletion when deleting configuration instance
    - Fixed session closing issue for the user whose password was just changed
    - Updated MODBUS credential validation
    - Updated MQTT credential validation
    - Fixed DNS 'Rebind protection' setting when switch is disabled
    - Updated libgcrypt to version 1.9.3 to fix CVE-2021-33560
    - Fixed CVE-2021-33624, CVE-2021-29648 vulnerabilities

- Fixed DHCP 'Lease time' and 'Unit' option saving over the Setup Wizard LAN page
- Fixed Reboot Scheduler not removing crontab file after disabling the rule
- Fixed OpenVPN 'Extra options' field validation to allow a space character
- Added table drag and drop functionality to the Firewall's Traffic Rules page
- Fixed DNP3 Outstation crash caused by non-void function returning no value
- Fixed RMS 'Copy' button functionality
- Fixed gsmd deamon crashing after modem restart
- Fixed gsm memory leak
- Fixed WCDMA band names for MEIG modules
- Fixed SMS Gateway loading screen issue when sending an SMS message
- Fixed mobile data database error after upgrading firmware with the 'Keep settings' option
- Fixed rpcd memory leak issue
- Fixed network information gathering
- Fixed 3G LED not being active in 3G mode
- Fixed data limit accuracy issue
- Fixed incorrect loading after saving Failover configuration
- Fixed escaping '#' symbol from hotspot username and password fields
- Fixed I/O Juggler hour condition interval issue
- Removed 'Memory Expansion' and 'Printer Server' from the Status -> Services page
- Patched CVE-2021-40528 vulnerability
- Patched CVE-2021-40490 vulnerability
- Patched CVE-2020-16120 vulnerability
- Fixed VLAN section creation
- Returned Interfaces "Port priority" option
- Fixed missing Content-Type header to initial WebUI response
- Fixed RIP information parsing in status page
- Fixed OpenVPN IPv6 netmask validation
- Fixed SNMP Trap Settings Host/IP field validation
- Fixed Cumulocity authentication reset
- Fixed Events Reporting rule saving

[RUT36X_R_00.07.00](RUT36X_R_00.07.00) | 2021.07.16

- **New features**
    - New WebUI based on Vue.js 2.6.12
    - RutOS updated to OpenWrt 19.07.7 base
    - DNP3 Master and DNP3 Oustation
    - 'Restore to user's defaults' SMS Utilities rule

- **Improvements**
    - Updated firewall to release 3
    - Updated kernel to version 4.14.221
    - Updated uhttpd to version 2020-10-01
    - Updated xtables-addons to release 9
    - Updated mwan to version 2.8.14
    - Updated pcre to version 8.44
    - Updated curl to version 7.74
    - Updated sqlite to version 3.33
    - Updated ncurses to version 6.2
    - Updated OpenSSL to version 1.1.1k
    - Added full MODBUS register address expansion specifier for Data to Server

- Added full MODBUS register address legend
- Added Client ID option for the MQTT protocol in Data to Server
- Improved Data to Server sleeping accuracy
- Improved Data to Server username validation; now space is allowed
- Added firmware version OID to the SNMP service
- Added IP address family option field to the SNMP page
- Added SNMPv6 section to the SNMP Communities page
- Renamed the 'System -> Users' page to 'System -> System Users'
- Moved password changing option to the 'System -> System Users' page
- Switched to ar8216 driver
- Added IPsec XAUTH support
- Improved OpenVPN updown, init scripts to write info about instance in JSON
- Added AES-256-GCM encryption support to OpenVPN
- Added extra configuration parameters to DMVPN
- Added PSK conversion to DMVPN and single PSK types
- Improved Package Manager package installation, deletion and dependencies
- Improved Package Manager download process over FOTA
- Added new Input/Output values manageable over RMS
- Added IPv6 traffic logging
- Made 'Network -> Failover' and 'Network -> Interfaces' page data draggable on multiple browsers
- Added Input/Output Post/Get URL parameter t_time changing delay and time to seconds or miliseconds
- Added message storage management by config value
- Improved QMI error handling and status tracking
- Turned on modem in preinit for correct power-on sequence
- Added Post/Get feature to turn mobile data on/off
- Added the possibility to use 2gonly/3gonly/4gonly arguments for cellular service command alongside current 2g/3g/lte arguments
- Added "Phone number" and "Message" fields for "Send SMS" option
- Added option to send SMS warning messages to Hotspot users authenticated with SMS OTP when specified amount of data is used up
- Added peer groups to BGP access list dropdown
- Added TCP MD5 authentication support for BGP

- **Fixes**
  - Added glib2 patch to fix CVE-2019-13012 vulnerability
  - Added ntfs-3g patch to fix CVE-2019-9755 vulnerability
  - Added WolfSSL patch to fix CVE-2021-3336 vulnerability
  - Added Busybox patch to fix CVE-2018-1000500 vulnerability
  - Added netifd, odhcp6c IPv6 routing loop on point-to-point links patches to fix CVE-2021-22161 vulnerability
  - Fixed Android clients IPsec MTU/MSS size
  - Fixed wrong IPsec DPD value saving
  - Changed IPsec PSK maximum length to 128 symbols
  - Fixed SSTP remaining up after package removal
  - Fixed DMVPN crypto_proposal write to config
  - Fixed I/O Juggler's SMS sending to correct group
  - Fixed I/O Scheduler's relay state issue
  - Added I/O direction check while changing IOs via I/O Post/Get
  - Fixed float endianness mismatch on some devices MODBUS TCP Master, MODBUS

Serial Master
- Fixed UPnP issue that caused config changes to apply only after service restart
- Fixed WebUI files caching when upgrading firmware
- Fixed WebUI date display format
- Fixed MODBUS returning incomplete MAC address data
- Fixed depleting IPv6 RA timeout when the ISP doesn't send RA updates
- Added "Transaction timed out" error handling
- Fixed PPPOE connection loss when wrong session PADT packet arrives
- Added gcont object tracking and info update if this service is restarted
- Fixed default SMS storage
- Fixed SMS warning sending after Mobile Data Limit change
- Fixed DHCP relaying over mobile networks
- Changed PIN code maximum length to 8 symbols
- Fixed 'I/O status' message to include correct Input/Output name based on info in ubus ioman objects
- Fixed WiFi Hotspot's Walled Garden issues
- Fixed WiFi Hotspot data logging issues
- Fixed P2P group information processing vulnerability in wpa_supplicant
- Added validation to Walled Garden Address list field

RUT36X_R_00.02.06.1 | 2021.02.10

- **Fixes**
  - Added dnsmasq patch CVE-2020-25681, CVE-2020-25682, CVE-2020-25683, CVE-2020-25684, CVE-2020-25685, CVE-2020-25686, CVE-2020-25687
  - Fixed SSH reachable over SIM IP in early boot
  - Fixed modem status after failed network scan
  - Fixed mbncfg function and PIN check logic
  - Fixed PPTP server interface naming
  - Fixed correct client PPTP interface name selection for route creation
  - Fixed adding helper to firewall's wan zone when enabling PPTP configuration
  - Added package size checking when manually installing a package
  - Fixed 'New Firmware Available' message display after firmware upgrade

RUT36X_R_00.02.06 | 2020.12.31

- **New features**
  - Initial RUT360 Firmware