Template:Networking rut955 firmware change log

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Contents

RUT9_R_00.07.01.1 | 2021.11.22

- **Fixes**
  - Fixed image signature addition

RUT9_R_00.07.01 | 2021.11.18

Note: Firmware version RUT9_R_00.07.01 released on 2021.11.18 was removed due to an issue with keep settings functionality. Please use newer firmware version RUT9_R_00.07.01.1 released on 2021.11.22.

- **New features**
  - Load Balancing Rules
  - 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 return SIM count command
- 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 an indication to the GPS map when GPS service is disabled
- Added external modem support for the 'Mobile Usage' graph
- Added check to refuse firmware lower than 7.0 on devices with Micron flash
- 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 support for PL2303GC serial to USB chip
- Added bgscan feature to wpa_supplicant
- Optimized Wireless device status information requests in all WebUI pages
- Added "Topology state" support to Events Reporting
- Added GPS AVL "Don't Contain Connection" and "Retry on Fail" configuration support

- **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 SIM Switch back to default SIM crash loop when SIM1 is disabled
- Removed unused SIM Switch struct objects
- Fixed incorrect loading after saving Failover configuration
- Fixed escaping '#' symbol from hotspot username and password fields
- Fixed NTP GPS Synchronization swith to enable GPS service
- Fixed MODBUS Serial Master crash when requesting a 4-byte datatype from a 2-byte data payload
- Added a check if DNP3 is installed for 'Serial type' option
- Fixed Storage Memory Expansion issues related to upgrading from version 6.X with the 'Keep settings' option
- 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

[RUT9_R_00.07.00.2](#) | 2021.10.19

- **Fixes**
    - Fixed NMEA sentence validation for Meig and Huawei modems

[RUT9_R_00.07.00](#) | 2021.07.16

- **New features**
    - New, RUTX-like WebUI style
    - 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
    - DHCP Relay AT command

- **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 "Host to ping from SIM1" and "Host to ping from SIM2" fields
- Added support for multiple USB to Serial adapters
- Added option to send SMS warning messages to Hotspot users authenticated with SMS OTP when specified amount of data is used up
- Added "send analog input" option to TAVL settings

- **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 GPS time synchronization for DST regions
  - 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 'Over IP' serial type's UDP issue in client mode
  - Fixed DLNA connections count total in statistics page
  - 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