



Firmware Release Note

V1.00(ACEI.2)C0

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Revision History

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2022/04/22	1.0.2	Hubert Lu	r132-25a7af608, r2311-ed2aa84c4, 219-f1763d6
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ZyXEL NR7303 V1.00(ACEI.2)C0 Release Note

Supported Platforms:

ZYXEL NR7303

Versions:

Firmware Version : V1.00(ACEI.2)C0

Kernel Versions:

Linux NR7303 4.19.205 aarch64 GNU/Linux

Notes:

Features Enhancement in V1.00(ACEI.2)C0:

1. Same as V1.00(ACEI.2)b3

Bug Fix list in V1.00(ACEI.2)C0:

2. Same as V1.00(ACEI.2)b3
-

Features Enhancement in V1.00(ACEI.2)b3:

1. N/A

Bug Fix list in V1.00(ACEI.2)b3:

1. [BugFix]Fix and comment for the EMBA CVEs issues
2. [BugFix][NR7303][Generic][EMBA][CVE-2022-35737] Apply patch for sqlite
3. [BugFix][NR7303][Generic][EMBA][CVE-2022-40303][CVE-2022-40304] upgrade libxml2 to 2.10.3
4. [BugFix][NR7303][Generic][EMBA][CVE-2023-27534] upgrade curl to 8.14.1
5. [BugFix][Zyxel-SI-1616][Zyxel-SI-1621][Vulnerability] Slow HTTP DoS attack for ZyxDos_fixed.py
6. [BugFix][Multi-language][#52256] Please improve the drop-down menu content for

these languages.

7. [BugFix][Multi-language][#52257] Please add the language translation content of these pages.
 8. [BugFix][Multi-language][#Internal] Add the missing language translation content.
(Alias IP, Wifi)
-

Features Enhancement in V1.00(ACEI.2)b2

1. [Feature]Support EN18031 relative feature and config changes
 - Upgrade busybox package to v1.36.1
 - admin account starts zysh instead of linux shell after login via SSH.
 - Only HTTPS and PING services are enabled on LAN/WLAN by default in Remote Management.
 - Dos protection enable
 - Upgrade dropbear package for the security enhancement
 - Add zycli command to show the software architecture (zycli swarchversion show)
2. [Feature][eITS#250200673][NOS]Add Cellular MTU configuration page

Bug Fix list in V1.00(ACEI.2)b2:

1. [BugFix][NR7303][#51379] When the GUI Language is set to Hrvatski, Turkce, Portugues, Cestina, Dutch or Pyccknn, the correct "Day" cannot be set in the Scheduler Rule page.
 2. [BugFix][NR7303][EAA] The title name (Active) of switch is missing on the User Account > User Account Add.
 3. [BugFix][eITS#250500927]cannot see 5CA on LTE only 4CC (1PCC + 3CC)
-

Features Enhancement in V1.00(ACEI.2)b1:

1. [Feature] GUI support Croatia(Hrvatski) language for NR7303
2. [Feature][EAA] Support EAA feature on NR7303
3. [Feature]Enable Cellular SMS feature

Bug Fix list in V1.00(ACEI.2)b1:

1. [BugFix][#51530][eITS#250401953] NEW APN mk.sa.t-mobile not working NR7303
2. [BugFix][#51495][Multi-language]The Cellular SMS page will not display the contents with some language.
3. [BugFix]The alert dialog will disappear icon when change language on cardpage

4. [BugFix][#50645][ACTS] Port Forwarding set Range then work fail
 5. [BugFix][ACTS] User account password max length is 64 but Login page display password max length is 32 (function work fine)
 6. [BugFix][ACTS] input wrong IP address in Trust Domain page , GUI pop message is wrong
 7. [BugFix][ACTS] Modify incorrect popup msg wrong
 8. [BugFix][eITS#250302291]Data model for motive does not able to import successfully into HDM Nokia ACS Server
 9. [BugFix][Security][Zyxel-SI-1605] Update expat to 2.7.1
 10. [BugFix][46242] NR7303 Vulnerable jQuery UI version (jquery-ui-1.13.2)
 11. [BugFix][46241] NR7303 V1.00(ACLT.0)b2 Vulnerable jQuery version (jQuery 3.6.0)
 12. [BugFix][eITS#250100998][Odido][NR7303] Admin can see supervisor GUI.
 13. [BugFix][NR7303][Security][Zyxel-SI-1576] Unauthenticated buffer overflow
 14. [BugFix] [EAA] Sync GUI EAA component issue
 - #51370 #51377 #51359 #51356 #51352 #51349 #51348
 - #51543 #51544 #51541 #51539 #51537 #51536
 - #51542
 - #51545
 - #51366 #51378
-

Features Enhancement in V1.00(ACEI.1)C0:

1. Same as V1.00(ACEI.1)b4

Bug Fix list in V1.00(ACEI.1)C0:

1. Same as V1.00(ACEI.1)b4
-

Features Enhancement in V1.00(ACEI.1)b4:

1. N/A

Bug Fix list in V1.00(ACEI.1)b4:

1. [BugFix][45493]Static DHCP Configuration does not work when apply
-

Features Enhancement in V1.00(ACEI.1)b3:

1. [Feature] Support GPS GNSS feature on Web GUI

Bug Fix list in V1.00(ACEI.1)b3:

1. [BugFix] bugfix_gui_speedtest_is_not_match_with_Ookla_speedtest
 2. [BugFix] Disable ims apn register by default
 3. [BugFix]Fix scc info not show when sa mode
 4. [BugFix]Fix cellular wan status not show nr nsa information
 5. [BugFix]Fix cellular wan status not show scc when access tec is lte
 6. [BugFix][Zyxel-SI-1557] [Vulnerability] Unauthenticated heap buffer overflow in the libcinkc library
-

Features Enhancement in V1.00(ACEI.1)b2:

1. N/A

Bug Fix list in V1.00(ACEI.1)b2:

1. [BugFix][#43366] CPE cannot get 5G SA connection normally with Amarisoft mini
 2. [BugFix][#43365] Please improve the LAN setting information on the home page
 3. [BugFix][#43529] Please enhance the Cellular Info page in 5G SA network.
 4. [BugFix] Move SA slicing feature into manual apn
 5. [BugFix]Switch dhcp button will cause ip setting wrong
-

Features Enhancement in V1.00(ACEI.1)b1_D0,

V1.00(ACEI.1)b1:

1. Enable zysh package
2. Upgrade to OpenSSL 3.0.12
3. Trunk SDK update
4. [Feature Enhancement] Implement eSIM
5. [Feature] Enable SA Network Slicing

Bug Fix list in V1.00(ACEI.1)b1_D0, V1.00(ACEI.1)b1:

1. Buffer overflow vulnerability for traceroute in zysh
-

Features Enhancement in V1.00(ACEI.0)D0,

V1.00(ACEI.0)C0:

1. Same as V1.00(ACEI.0)b12_D0, V1.00(ACEI.0)b12

Bug Fix list in V1.00(ACEI.0)D0, V1.00(ACEI.0)C0:

1. Same as V1.00(ACEI.0)b12_D0, V1.00(ACEI.0)b12
-

Features Enhancement in V1.00(ACEI.0)b12_D0,

V1.00(ACEI.0)b12:

1. [Feature] Config support ippt alias customization
2. [Feature] GUI support ip alias customization on homenetworking lanSetup page

Bug Fix list in V1.00(ACEI.0)b12_D0, V1.00(ACEI.0)b12:

1. [BugFix][#39323] LED signal strength behavior does not meet specification
 2. [BugFix] Fix gui lanSetup page redirect url to not accessible ip
 3. [BugFix] Configure lanSetup page in router mode will cause br1 ip address lost
 4. [BugFix][39739] Change default config ipv6 dns value from user defined to from isp
 5. [BugFix][39740] After changing the Alias IP Address from default 192.168.1.1 to 192.168.1.111, the IP:192.168.1.111 cannot be used to access the GUI.
-

Features Enhancement in V1.00(ACEI.0)b11:

1. [Feature] Support calculate eNBID gNBID from Cell ID
2. [Feature] Add check mechanism and note for tr471

Bug Fix list in V1.00(ACEI.0)b11:

1. [BugFix] Fix gui cellular service info of mcs value
 2. [BugFix][#38674] Fix tr471 gui will show warning even the NumberFirstModeTestSubIntervals and NumberTestSubIntervals are valid in the range.
 3. [BugFix][#38675]Fix NumberTestSubIntervals is less than 5, the result will be "10" after execution
 4. [BugFix] Cellular Info DNS server display issue.
 5. [BugFix] Please improve the checking mechanism in the Iperf function of the diagnostic page..
-

Features Enhancement in V1.00(ACEI.0)b10:

1. [Feature] Support GUI iperf test (supervisor only)
2. [Feature] Support TR471 udp speed test
3. [Feature] Support CellWanStatus page display NSA info, also keep NSA not been released.
4. [Feature] Enable log before belog up
5. [Feature] Add menuconfig option to enable ethernet ELT log by feature bit

Bug Fix list in V1.00(ACEI.0)b10:

1. [BugFix] Can't Setting LAN Interface Group
 2. [BugFix] Fix gui cellular service info of rank indicator value
 3. [BugFix] Edit the LAN of the home page, the content is empty.
 4. [BugFix] Set "static DHCP" the Group name set same to "LAN Setup"
 5. [BugFix] Sync ntpclient patches from nr5103 platform.
-

Features Enhancement in V1.00(ACEI.0)b9:

1. [Feature] Support wifi 2.4G addaptivity test command and driver
2. [Feature Enhancement] Adjust function sequences.
3. [Feature] Requirement changes of led behaviour
4. [Trunk Maintain] Change GUI order and description on tr369 page.
5. [Feature] Delete the file generated by installDU under /xdata
6. [Feature] Quectel modem doesn't need to support plmn white list.

Bug Fix list in V1.00(ACEI.0)b9:

1. [BugFix] Fix OpenSSL vulnerability to upgrade openssl version from 1.1.1n to 1.1.1t
 2. [BugFix] HTTPS URL Command Injection in Device.SoftwareModules.InstallDU()
 3. [BugFix] Fail to setup the host name and domain name on system page.
 4. [BugFix] Take off the wifi block button and the WPS info display.
 5. [BugFix] Hide the wps memo in wifi general page
 6. [BugFix] Wrong error message when set wifi bandwidth to 20Mhz
 7. [BugFix] After APN reconnected, MQTT cannot be reconnected.
-

Features Enhancement in V4.19(ACEI.0)b8:

7. [Feature] support hostapd force 40Mhz config

8. [Feature Enhancement] Fix load agent cert redundant judgment.
9. [Feature] Interface value auto-correction.
10. [Feature] Invalid MTP instance may cause system crash.
11. [Feature] Add original source file for diff comparison
12. [Feature] Return Password in different ways for conditions (TR069)
13. [Feature] Modify Device.Cellular.AccessPoint.{i}.Password to return the value of the password (TR069)
14. [Feature] Disable RTK rtl8723DS bluetooth for NR7303_Generic config.
15. [Feature] Replace serial number string to device unique serial number written in MRD.
16. [Feature] Install and execute shell scripts on the CPE
17. [Feature Enhancement] Add log for bound interface fail.
18. [Feature Enhancement] Fix TR-369 client sends Boot on process restart
19. [Feature] Refine flash API to fix the 'symbol not found' when enable the full relro.
20. [Feature Enhancement] SoftwareModules.ExecutionUnit.i.SetRequestedState command and ExecutionUnit.i.Status
21. [Feature] MQTT client being referenced should not be deleted.
22. [Feature] Username, Password, ProtocolVersion are added on GUI.
23. [Feature] Modify Device.Cellular.AccessPoint.{i}.Password to return the value of the password (TR369)
24. [Feature] Refine backend function to fix the 'symbol not found' when enable the full relro.
25. [Feature] Enable stack canary and overflow protection.(clinkc)
26. [Feature] Enable stack canary, overflow protection and full relro for Backend.(ODU)
27. [Feature] CLI command to publish to a MQTT broker added/removed.
28. [Feature] Do not disconnect/connect to MQTT broker if certificates are not added/removed.

Bug Fix list in V4.19(ACEI.0)b8:

8. [BugFix] Remove unused parameters and functions.
9. [BugFix] No host under Device.Hosts.Host. (TR369)
10. [BugFix] Modify manual APN setting by SET message cause connection abnormal and
11. [BugFix] TR-369 Reboot operation fails to reboot the device.
12. [BugFix] SSL-problem with TR-369 USP
13. [BUGFIX] [ACTS]User account group can login non-GUI remote managemet service
14. [BUGFIX][CLINKC] An attacker could use a buffer overflow vulnerability and cause a denial of service.
15. [BugFix] Backend config loader may use null pointer after deleting object

16. [BUGFIX] [ACTS]console enter "sys atcr reboot" after enter incorrect SIM PIN 3 times & incorrect PUK 5 times then GUI SIM Card Status display "Avilable" should be "Blocked" Verif..
 17. [BUGFIX] For hostapd config, wpa_passphrase cannot less than eight elements when wlan in no security mode.
 18. [BugFix] Fix wifi other page setting will cause wifi driver call trace
 19. [BUGFIX][MTKSOC] Backup/Restore function doesn't include TR-369 configuration
 20. [BUGFIX] After setting LAN IP, GUI cannot auto access login page.
 21. [BUGFIX][Vulnerabilities] Samba Unsafe User-Controlled Configuration Data
 22. [BUGFIX][Vulnerabilities] SAMBA shares Unsafe Symbolic Link folder
-

Features Enhancement in V4.19(ACEI.0)b7:

1. [Feature] Enable/Disable debug messages at run time.
2. [Feature] Enable auto channel selection for hostapd
3. [Feature] Add device_security.c to obuspa patchs folder.
4. [Feature] Register an alternate interrupt service routine for the card-detect GPIO(reduce TIS, Sensitivity).
5. [Feature] Add USP+MQTT can config client-certificates.
6. [Feature] Support hw to set mmc signal level to 1.8V
7. [Feature] Change wifi check mechanism during bootup time
8. [Feature] Add Boot! event and alter it to different topic.
9. [Feature] Modify bootup LED for NR7303_Generic
10. [Feature] Support the signal led flashing when connected to LTE

Bug Fix list in V4.19(ACEI.0)b7:

23. [BugFix] Rom convert doesn't work on NR7303/QuecTEL MT6890 SDK
24. [BugFix] traceroute or ping should send out from APN 2 when I set interface of APN 2 for default gateway.
25. [BugFix] In Edit APN 1 page, I need reboot DUT to get new IPv4 address after I changed Passthrough to fixed MAC address.
26. [BugFix] In Diagnostic page, it will occur coredump after doing speedtest testing.
27. [BugFix] In Traffic Status page, the TX/RX packets bytes of 2.4G WLAN always be zero.
28. [BugFix] Change zyledctl behavior for
zyledctl_set_power_green,zyledctl_set_power_red
29. [BugFix] Fix wifi page not show current channel and bandwidth

30. [BugFix] TR369 daemon kill failed when disable agent.
 31. [BugFix] Fix hostapd will not bringh up when config set to ACS with HT40-
 32. [BugFix] It is hard to access WEB GUI when I manually select band 4G(B7) to NR5G-SANR5G-NSA/4G(B7,N77) with four APN and upnp enable.
 33. [BugFix] Fix wifi bssid will display wrong on GUI
 34. [BugFix] The IP domains of the br2 are displayed differently on the GUI and the console
 35. [BugFix] Timeout in Device.IP.Diagnostics.IPPing() command uses wrong magnitude.
 36. [BugFix] There is not value of output_args IPAddressUsed for IPPing() and TraceRoute()
 37. [BugFix] Can't connect to broker with MQTT Ver. 5.0
 38. [BugFix] OperationComplete NOTIFY of output_args for DownloadDiagnostics()is different with SUPPORTED_DM and usp-data-models (tr-181-2.15)
 39. [BugFix] OperationComplete NOTIFY of output_args for UploadDiagnostics() is different with SUPPORTED_DM
 40. [BugFix] Use a parameter defined in TR-181 USP to enable/disable TR-369 and add obuspa.sh to monitor obuspa process.
 41. [BugFix] Follow the FWA, UE should support nuttcp, telnet, dig, usleep unix commands.
 42. [BugFix] Memory leak when sending notify of bulkdata
 43. [BugFix] Device.BulkData.Profile.{i}.Parameter.{i} does not allow more than 8 entries
-

Features Enhancement in V4.19(ACEI.0)b6:

1. [Feature] Support execute wlan_en_detect.sh when wifi enable/disable to control the GPIO value
2. [Feature] Enabled EC2+S3 FOTA firmware upgrade through HTTPS (EUN, eu-north)
3. [Feature Enhancement] Enable rtk wifi to set up country code.
4. [Feature] Add debug_project.sh for NR7303_Generic
5. [Feature] Add RTK rtl8723DS bluetooth driver,uart driver,rtk_hciattach,rtlbtmp

Bug Fix list in V4.19(ACEI.0)b6:

1. [BugFix] [ITSID:29561] The WiFi client can not connect to CPE after reboot.
2. [BugFix] /sbin/sysupgrade return early during multiboot process, which will set led set to success during sysupgrade process.
3. [BugFix] It cannot dispaly WLAN Station Status
4. [BugFix] There are not any IPv4 ARP entries in IPv4 ARP Table.
5. [BugFix] In System Info page, LAN IP Information is not correct when APN is in router

mode.

6. [BugFix] In LAN Setup, Group Name should display the meaning of internet for IP range 192.168.X.X.
 7. [BugFix] In System Info Page, it will crash when internet is unconnected.
 8. [BugFix] Fix WLAN Auto Switch Off does not working on GUI
 9. [BugFix] Fixed RTK rtl8723ds WIFI driver probabilistic crash before reboot.
 10. [BugFix] Change to correct model id in default mrd file for NR7303
 11. [BugFix] SpeedTest is not working on web and app.
-

Features Enhancement in V4.19(ACEI.0)b5:

1. [Feature] Default enable LTE/5G-NSA/5G-SA on Preferred Access Technology

Bug Fix list in V4.19(ACEI.0)b5:

1. [BugFix] No bound interface not found and stop sending publish if MQTT broker request reconnect.
-

Features Enhancement in V4.19(ACEI.0)b4:

1. [Feature] Enabled TR69 , TR369, MQTT feature services.
2. [Feature] Generate local default certificate by MRD

Bug Fix list in V4.19(ACEI.0)b4:

1. [BugFix] Fix sys qtinfo will get empty response if inserted the AT&T SIM card, which will cause +CGMR: disappear.(also add Quectel MODULE SN, Quectel MODULE IMEI in qtinfo)
 2. [BugFix][ITSID:29412] Fix ethernet 4pin wired phy does not linked up
 3. [BugFix] IPv6 address sometimes disappear when multi-APN reconnect.
-

Features Enhancement in V4.19(ACEI.0)b3:

1. [Feature] Merge mosquitto patch form NR7101
2. [Feature] Add Macfilter allow list GUI check

Bug Fix list in V4.19(ACEI.0)b3:

1. [#28706] In IP Passthrough Mode, I cannot access DUT from WAN interface.
2. [#29055] Custom DHCP is not working.

3. [#28650] WiFi 2.4G STA connection should not get internet.
 4. [#28894] Static Routing is not working.
 5. [#29114] ZCMD is failed and br0,1 are disappeared 3 times after power off/on DUT
 6. [#28996] In Diagnostic page, trace route 6 is not working.
 7. [#29077] Scheduler Rule seems not be used, please confirm with PLM if we need remove it?
 8. [#29056] I cannot add a Static DHCP IP in lan ip domain.
 9. [#28828] PC lose the management when I set an allow MAC filter for managed PC.
 10. [#28948] The LED indicator of Device status should be solid amber when WLAN is ON.
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Features Enhancement in V4.19(ACEI.0)b2:

1. Allow ISPs to add whatever DHCP option they want to IPPT APNs

Bug Fix list in V4.19(ACEI.0)b2:

1. [#28660] In Diagnostic page, all “Ping/TraceRoute” button doesn’t recover after I finished a testing
 2. [#28663] In Diagnostic page, Nslookup function is not working.
 3. [#28669] In the Broadband page, I cannot change WAN's IPv4/IPv6 Mode to IPv4 only or IPv6 only
 4. [#28671] In the Broadband page, a client cannot route to another gateway after disable and enable NAT setting
 5. [#28721] In Broadband Page, DUT console loop when I manually band select 4G(B7) to NR5G-SA/NR5G-NSA/4G(B7,N77) with two APN.
 6. [#28650] WiFi 2.4G STA connection should not get internet
 7. [#28724] In Boot process, LED indicator of Device status should be flashing red.
 8. [#28882] The third APN can not get WAN IP and the second static DHCP IP can not be selected
 9. [#28838] Enable APN 2 ~ 4 by manual, APN 1 as default (no change), but APN 2~4 cannot not WAN IP.
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Features Enhancement in V4.19(ACEI.0)b1:

1. First release.

Bug Fix list in V4.19(ACEI.0)b1:

1. N/A
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Default Settings in Firmware

1. Revert back RoamingEnabled to false.

Refer to the XML format file “*.rom” in FW release package.