

WNCE4004 Release Notes

Spark Li

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1.1 Firmware V1.0.0.0

1.1.1 What's new

1. Bug fixed

- bug 32732 [UI]After reset DUT to factory default the top logo can't show
- bug 32733 [UI]The model name should be WNCE4004
- bug 32735 [UI]If user selects WEP in the web GUI, should only show ?p to 54Mbps?
(legacy b/g or legacy a)
- bug 32737 [UI][Case ID:4004186]There not have pop-up message for 11N mode WPA/WPA2 mixed mode"WPA-PSK [TKIP] may only operate at "Up to 54Mbps" rate, not N rate. NETGEAR recommends that you use WPA2-PSK [AES] to get full N rate support. "
- bug 32738 [Default IP]DUT default IP should be 192.168.1.240 according PRD
- bug 32739 [UI]In 5G AP mode can't wireless mode always is 300Mbps
- bug 32743 [UI]The hardware version should be WNCE4004
- bug 32746 [UI]After reset DUT to factory default UI should redirect to www.mywifiext.net
- bug 32747 [http]uhtp server will disappear after change language from english to German
- bug 32748 [UI]First time scan result always is blank
- bug 32749 [UI][Case-ID:4004144]should not allow WEP passphrase with blank
- bug 32750 [UI][Case-ID:4004146]The 64bit only allows put 10 hexadecimal value
- bug 32753 [WEP-128][Case-ID:4004150]DUT can't generate key is 26 hexadecimal
- bug 32755 [WEP-128][Case-ID:4004147]128bit should only allows put 26 hexadecimal value
- bug 32757 [WEP]The WEP share-key option is blank
- bug 32760 [WEP][Case ID: 4004148]Intel 6300 can't connect to DUT with WEP-64 share-key
- bug 32763 [UI]The pop-up message box is blank when set WPA passphrase to 64 Non-hexadecimal
- bug 32767 [Wireless]WiFi will down after apply twice on wireless setting page
- bug 32772 [UI]Sometime DUT will appear two channel and mode option in GUI
- bug 32774 [Wireless]Reference 4700,the wireless mode speed should be 450Mbps,195Mbps and 54Mbps
- bug 32784 [UI]When i set wireless security to WPA/WPA2 mixed mode, status page show is none
- bug 32788 [5G][Case ID:4004492]According router spec, Middle east not support HT40

bug 32789 [UI]When set wireless region to "South America", there not have 300Mbps option

bug 32794 [Statistic][Case ID:4004254]The LAN port statistic status is "Link down", uptime is always zero

bug 32798 [IGMP Snooping]DUT should support IGMP Snooping

bug 32816 [Wireless]DUT can't connect to WNDRMAC,WNDRMACv2,WNDR300 and WNCE4004 with 5G none security

bug 32863 [Wireless][Case ID:4004191]DUT can't connect to WNDRMAC with 5G WPA-PSK[TKIP] security

bug 32864 [Wireless][Case ID:4004188]DUT can't connect to WNDRMAC with 5G WEP-64/128 security

bug 32866 [Wireless]DUT can't connect to WNDRMAC with 5G WPA2-PSK[AES] security

bug 32869 [Wireless]DUT can't connect to WNDRMAC none security with 2.4G

bug 32871 [UI]The status page Link rate always is 0.0.0.0

bug 32872 [UI]The status page DNS& Gateway IP always is 0.0.0.0 even if DUT success acquire IP

bug 32882 [UI]Advice modify AP mode status page

bug 32883 [UI]Remove setup wizard in UI

bug 32890 [Wireless][Case ID:4004193]DUT can't connect to AP when WPA/WPA2 mixed mode manual input SSID and Security type

bug 32891 [Wireless]DUT can't connect to WNDMRAC with WPA-PSK[TKIP]

bug 32892 [Wireless] DUT can't connect to WNDRMAC with WEP-63/128 in 2.4G

bug 32893 [IGMP]lan pc can't play IPTV video when DUT as bridge mode

bug 32936 [DHCP]Sometime DUT will allocate 192.168.1.4 with gateway&&dns to LAN client

bug 32940 [UI]Attach device page should add "Wired Devices" and "Wireless Devices (Wireless intruders also show up here)" string

bug 32941 [UI]Attach device help is wrong

bug 32942 [Attached device][Case ID:4004206] The PC hostname is longer than 22 characters, then the net-scan will disappear and the pc can't display on the attached device table.

bug 32946 [XSS]XSS Protection isn't cover to "SSID"

bug 32950 [Attach device]DUT device page will show blank when attach device name is <>()"#&

bug 32953 [wireless]Ping fail DUT IP When DUT as bridge mode

bug 32954 [POT]Should support POT as spec require

bug 32958 [password]According PRD default logon password should be S/N number on the box.

bug 32960 [UI]Sometime existing network list abnormal

bug 32961 [SSID]When set SSID as \$\$ DUT will broadcast SSID as "\\\$"

bug 32962 [wireless]wireless client show DUT is none security when set DUT in wpa2 SSID and passphrase to ~!@#\$\$%^&*()_+=-`|[';./,<>?":{|

bug 32963 [login]To prevent multi-login we will show ? (xxx.xxx.xxx.xxx) is

managing this device. ? while this device web GUI was already opened by another local client or remote client.

- bug 32964 [wireless]can't change AP mode to bridge mode
- bug 32967 [UI]The wireless setting pages not have "Enable SSID Broadcast" option
- bug 32969 [UI]Advance wireless setting not have "Transmit Power Control" and "WPS Settings" options
- bug 32929 [WPS]DUT should support AP mode and Bridge mode WPS function
- bug 32901 [UI]On IE9 the language select option and wireless region is blank
- bug 32881 [UI]Advice modify Bridge mode status page
- bug 32957 [Upgrade]Should support upgrade firmware from netgear updates server

1.2 Firmware V1.0.0.5

1.2.1 What's New

1. Bug fixed

- bug 32965 [Attach device]DUT device page will show blank when attach device name is <>()""#&
- bug 33302 [WPS]Keep existing wireless setting checkbox should checked after basic wireless setting page applied
- bug 33298 [upgrade][Case ID-4004301]DUT should check md5 before upgrade
- bug 33281 [TFTP]DUT should enter TFTP recovery mode when Upgrade a firmware from web GUI and during the upgrading turn off the power and then power on
- bug 33271 [UI]When DUT in AP mode advice add "Broadcast Name" on status page
- bug 33269 [wireless]when DUT not success connect to AP, the link rate should show "Disconnect" or "0"
- bug 33268 [wireless]WNDR3300 max is 270Mbps, but DUT show link rate is 405Mbps
- bug 33265 [wireless]5GHz HT40(54Mbps&&195Mbps) rule show follow router spec require
- bug 33263 [wireless]5G 54Mbps&&195Mbps rule show follow router spec require
- bug 33261 [wireless]2.4GHz country/region list includes 摳 frica�, 摳 sia�, 摳 ustralia�, 摳 urope�, 摳 srael�, 摳 apan�, 摳 orea�, 摳 orth America�, 摳 exico�, 摳 iddle East�, 摳 ussia�, and 摳 outh
- bug 33260 [wireless]5GHz country/region list includes 摳 frica�, 摳 sia�, 摳 ustralia�, 摳 anada�, 摳 hina�, 摳 urope�, 摳 ndia�, 摳 srael�, 摳 apan�, 摳 orea�, 摳 alaysia�, 摳 exico�, 摳 iddl

bug 33251 [UI]In briage mode wep-128 should only allows put 26 hexadecimal value

bug 33250 [wireless]DUT bridge mode can't connect to WNDR3300 WEP-128

bug 33249 [wireless]Intel 6300 can't connect to DUT with WEP-64/128

bug 33243 [UI]In briage mode also should follow 64bit only allows put 10 hexadecimal value rule

bug 33242 [UI]In briage mode can leave WEP passphrase and key with blank

bug 33230 [wireless]After reset to factory default DUT will automate connect to "NETGEAR" SSID

bug 33229 [UI]The statistic page show show LAN1-LAN4 port status

bug 32881 [UI]Advice modify Bridge mode status page

bug 32864 [Wireless][Case ID:4004-188]DUT can't connect to WNDRMAC with 5G WEP-64/128 security

bug 32760 [WEP][Case ID: 4004-148]Intel 6300 can't connect to DUT with WEP-64 share-key

bug 32737 [UI][Case ID:4004-186]There not have pop-up message for 11N mode WPA/WPA2 mixed mode"WPA-PSK [TKIP] may only operate at "Up to 54Mbps" rate, not N rate. NETGEAR recommends that you use WPA2-PSK [AES] to get full N rate support. "

2. U-boot update

Add these commands in boot loader:

```
board_hw_id_set          - set board_hw_id
board_hw_id_show         - Show board_hw_id
board_model_id_set       - set board_model_id
board_model_id_show      - Show board_model_id
board_passphrase_set     -set passphrase on board
board_passphrase_show    - Show board_passphrase
board_ssid_set           - set ssid on board
board_ssid_show          - Show board_ssid
```

1.2.2 Steps to burn boot loader

1. Please use u-boot-1.0.0.5.bin
2. Set up a tftp server on your PC
3. Entering boot loader
4. Ar7240> setenv serverip (your PC ip)
5. Ar7240> tftp 0x80800000 u-boot.bin;erase 0x9f000000 +0x40000;cp.b \$fileaddr 0x9f000000 \$filesize
6. Ar7240> setenv bootcmd "bootm 9f050000"
7. Ar7240> saveenv

8. Ar7240> reset

1.2.3 Known issues

1.3 Firmware V1.0.0.7

1.3.1 What's New

1. Bugs fixed

- Bug 32747 [http]uhttpd server will disappear after change language from english to German
- Bug 32794 [Statistic][Case ID:4004-254]The LAN port statistic status is "Link down", uptime is always zero
- Bug 32798 [IGMP Snooping]DUT should support IGMP Snooping
- Bug 32887 [wireless]DUT will lost connection with former AP after do manual scanning
- Bug 32929 [WPS]DUT should support AP mode and Bridge mode WPS function
- Bug 32944 [UI]The "Documentation" link is wrong
- Bug 33240 [wireless]DUT scan result show some signal strength is 0%
- Bug 33276 [DHCP]Advice do DHCP detect action when PHY down and up
- Bug 33298 [upgrade][Case ID-4004301]DUT should check md5 before upgrade
- Bug 33302 [WPS]Keep existing wireless setting checkbox should checked after basic wireless setting page applied
- Bug 33373 [wireless]According PRD DUT should Multiple SSID support when acting as AP
- Bug 33378 [wireless]One bridge bundle by default should not interfere with neighbor's
- Bug 33379 [wireless]According PRD Easy setup with pre-configured pairing. SSID and encryption key preconfigured out of the box, so no user installation setup required
- Bug 33535 [LED]On Front: Power / Performance LED that show the available bit rate (quality of the transmission) in a simple way (e.g. , flashing red> unit booting, flashing orange> unit ready, no WLAN bridge, solid green >10 Mbps, solid orange 3-5Mbps, solid red <
- Bug 33536 [LED]On Front: WPS LED (blue) – When the WPS push button is pressed, the WPS LED starts blinking. The behavior is as follows: i. When pressed, starts blinking as like other WPS LED lights in NETGEAR routers ii. When device is not associat
- Bug 33566 [wireless]DUT show always show connected to root ap when change root ap from WEP-64 to WEP-128
- Bug 33577 [attach device]DUT should count root ap as wireless device
- Bug 33662 [UI]DUT will show old GUI and then new GUI when login DUT
- Bug 33663 [UI]There have two 195Mbps in wireless setting page

Bug 33664 [UI]The reset to factory default "Yes" button not work

Bug 33668 [UI]When i set wireless region to Malaysia/Middle East (Turkey)/Middle East (Saudi Arabia)/Middle East (United Arab Emirates)/Singapore/Taiwan but status page show is europe

Bug 33695 [UI]UI show abnormal in some pc browser

Bug 33735 [ethernet]DUT show LAN is 100M/half, 10M/half when set Intel(R)PRO/1000GT to 100M/full and 10M/full

Bug 33810 [Guest network]wireless card connect to Guest network can't surf internet

Bug 33811 [UI]Status page should add Guest network information

Bug 33830 [UI]When DUT in station mode should hidden Guest network menu or gray out

Bug 33838 [UI]Advice add "Refresh" and "Continue" button on the top of the ap list

Bug 33839 [UI]Advice change "Auto Detect" button as third select option for user select

Bug 33844 [UI]There not have "Allow guest to access My local Network" option on guest network setting page

1.3.2 Steps to burn boot loader

1. Please use u-boot-1.0.0.5.bin
2. Set up a tftp server on your PC
3. Entering boot loader
4. Ar7240> setenv serverip (your PC ip)
5. Ar7240>tftp 0x80800000 u-boot.bin;erase 0x9f000000 +0x40000;cp.b \$fileaddr 0x9f000000 \$filesize
6. Ar7240> setenv bootcmd "bootm 9f050000"
7. Ar7240> saveenv
8. Ar7240> reset

1.3.3 Known Issue

Language tables will be updated once get translation from Netgear.

1.4 Firmware V1.0.0.9

1.4.1 What's New

1. Bug fixed

- bug 32747 [http]uhttpd server will disappear after change language from english to German
- bug 32796 [wireless]DUT should conversion multicast to unicast
- bug 33577 [attach device]DUT should count root ap as wireless device
- bug 34083 [IGMP]After wireless client leave group, it always receive that group packets
- bug 34088 [UI]If user selects WEP in the web GUI, only “Up to 54Mbps”
- bug 34095 [WPS][Test Case ID 4004-352]When DUT in config status should not change wir
- bug 34097 [UI]Some tab will appear on GUI top
- bug 34101 [wireless]After change region from Europe to Aisa, the channel will
- bug 34104 [WPS][Test Case ID 4004-350]DUT should write WPS setting result to wireless
- bug 34107 [WPS]DUT should change to from unconfig to config status after WPS success
- bug 34108 [WPS][Test Case ID 4004-351]WPS success page should display ok when DUT is
- bug 34109 [WPS]After WPS "Collecting the client information" string, UI show abnormal
- bug 34118 [UI]When DUT in AP mode, can't use the numeric keypad input client PIN
- bug 34119 [UI]When DUT in AP mode, WPS GUI always show client PIN is 60358295
- bug 34120 [WPS][Test Case ID 4004-396]WPS PIN method timeout should be 4 minutes
- bug 34122 [WPS][Test Case ID 4004-358]PBC and PIN progress ignored others progresses
- bug 34126 [WPS]The GUI stay in WPS progress until timeout when add wireless client th
- bug 34127 [wps]There is no result page of invalid client's PIN, when make a connection by
- bug 34128 [Spec v11]Add protect PIN under WPS Settings(Wireless advanced settings)
- bug 34129 [WPS]WPS spec update: solving WPS PIN brute-force attack protection
- bug 34136 [WPS][Test Case ID 4004-388]wireless client can't connect to DUT with AP PIN
- bug 34142 [WPS]Add wireless client through 2.4G Software Push Button DUT always
- bug 34157 [WPS][Test Case ID 4004-369]5G Keep Existing Wireless Settings checkbox's
- bug 34186 [WPS]DUT station mode WPS GUI always stay in WPS progress even success
- bug 34384 [wireless]The link rate will show 0 when there is not data from DUT to
- bug 33536 [LED]On Front: WPS LED (blue) – When the WPS push button is pressed

2. u-boot update

Increase the length of HW ID to 30.

1.4.2 Steps to burn boot loader

1. Please use u-boot-V1.0.0.6.bin
2. Set up a tftp server on your PC
3. Entering boot loader
4. ar7240> setenv serverip (your PC ip)
5. ar7240>tftp 0x80800000 u-boot-V1.0.0.6.bin;erase 0x9f000000 +0x40000;cp.b
\$fileaddr 0x9f000000 \$filesize
6. ar7240> setenv bootcmd "bootm 9f050000"
7. ar7240> saveenv
8. ar7240> reset

Then please set default ssid and passwordphrase in new u-boot.

1.4.3 Known Issue

1.5 Firmware V1.0.0.11

1.5.1 What's New

1. Bug fixed

- bug 34763 [GUI]need to implement "Enable 20/40 MHz Coexistence" feature
- bug 34745 [password]According NETGEAR require, the password will not allow leave blank
- bug 34743 [UI]Change the title of the web GUI page "router" string to "Bridge" because
- bug 34736 [UI]DUT 401 un-authorize page is blank
- bug 34652 [wps]Run WPS via PBC hardware button we can change wireless
- bug 34631 [WPS]WPS LED will turn off after configure DUT from unconfigure status
- bug 34623 [LED][Test Case ID 4004-45]Power LED GREEN once every second
- bug 34621 [NMRP][Test Case ID 4004-41]Power/Test LED should display amber on NMRP
- bug 34603 [UI]http://192.168.1.240/hidden_info.htm page show wrong information when
- bug 34599 [UI]5G not have auto channel option, but status page show 5G is auto channel
- bug 34598 [Multi login]When multi login occurred, found an abnormal phenomenon as blow
- bug 34590 [NMRP]when use NMRP to upgrade, it will assign only one MAC to two DUT
- bug 34569 [WPS]DUT station mode should detect WPS overlap

bug 34536 [WPS]After up to max PIN attack number, DUT always show WPS in progress
bug 34535 [UI]I can set WPS Attack prevent number to "-1" "0" "A" "好" etc. illegal
bug 34507 [WPS]When the router enters this lock-down state automatically,
bug 34492 [WPS]When DUT in configure status WPS will not change wireless setting,
bug 34476 [WPS]WPS state variable can only be saved in the DRAM instead of flash
bug 34474 [UI]WPS PIN progressing bar will reach to 100% at 3 minute 40 seconds
bug 34451 [Attach device]The wired device table and wireless device table style should
bug 34393 [UI]The scanning progress Percentage show abnormal in IE6
bug 34144 [WPS]When DUT is in station mode should support WPS PIN method
bug 34117 [UI]The WPS page string should follow router spec when DUT is AP mode
bug 34109 [WPS]After WPS "Collecting the client information" string, UI show abnormal
bug 34083 [IGMP]After wireless client leave group, it always receive that group packets
bug 34082 [IGMP]wireless client delay about 5 minutes receive group stream packets after
bug 34887 [wireless]DUT will lost connection with former AP after do manual scanning
bug 34869 [Wireless]DUT connection not stable with WNDRMAC WPA2 security with 2.4G

2. U-boot update

Fix a mac bug and two LED issues.

1.5.2 Steps to burn boot loader

1. Please use u-boot-V1.0.0.8.bin
2. Set up a tftp server on your PC
3. Entering boot loader
4. ar7240> setenv serverip (your PC ip)
5. ar7240>tftp 0x80800000 u-boot-V1.0.0.8.bin;erase 0x9f000000 +0x40000;cp.b
\$fileaddr 0x9f000000 \$filesize
6. ar7240> setenv bootcmd "bootm 9f050000"
7. ar7240> saveenv
8. ar7240> reset

1.5.3 Known Issue

1.6 Firmware V1.0.0.12

1.6.1 What's New

1. Bug fixed

- SQA-1(bug 35053) enable DUT's DHCP server function before DUT connect to wireless AP or
- SQA-2(bug 35054) The model name in login screen is in lower case (wnce4004), it should in upp
- SQA-3(bug 35057) DUT will not set itself to "AP mode" automatically, it still in "Bridge mode"
- SQA-4(bug 35061) After power on DUT and not connect to wireless AP or wireless router, the power LED is solid red, it should be flahing orange according to WNCE4004 PRD.
- SQA-5(bug 35063) When connect to root AP with security (WPA, WPA2, WPA/WPA2), input invalid passphrase like 123, the pop up warning message is blank in various browser
- SQA-7(bug 35068) In Firefox11 and Safari, after press Search button in Wireless Settings page, the percentage value display incomplete
- SQA-8(bug 35071) When DUT connect to Root AP, it will not send DHCP request to get 192.168.1.240 IP first. There in no requested IP in wireless DHCP packet
- SQA-9(bug 33535) After connect to Root AP at mode " Up to 54 Mbps", and check the Link Rate (Tx/Rx) is 54Mbps in Device Status page, the power/performance LED display in half green and half red, it should solid green for >10 Mbps.
- SQA-10(bug 35080)After reset DUT to factory default settings, the URL will redirect to "http://www.mywifiext.net/" and browser will display error message "Internet Explorer cannot display the webpage"
- SQA-11(bug 35082)When DUT's IP changed and the current page's URL is www.mywifiext.net or mywifiext.net, it will not redirect to www.mywifiext.com when it loads the next page
- SQA-12(bug 35084)When wireless region is "Middle East (Algeria/Syria/Yemen)", there is the "Up to 195 Mbps" at the mode list. According to spec, Middle East (Algeria/Syria/Yemen) should not support HT20
- SQA-13(bug 35085)In AP mode, when input 64 characters as passphrase in security options WPA-PSK[TKIP], WPA2-PSK[AES], WPA/WPA2-PSK, the pop-up error message should be same with spec require
- SQA-14(bug 32737)There not have pop-up message for 11N
- SQA-15(bug 35087)In AP mode, set Security Options as WPA/WPA2-PSK and set
- SQA-17(bug 35088)Wireless Card Access List function is not work
- SQA-18(bug 34474)When perform WPS process via PIN / PBC, the process bar reach 100% before PIN / PBC time-out
- SQA-19(bug 34117)Find there is an undefined description when select PIN Number in WPS page

SQA-20(bug 34492)When DUT in configure status WPS will not change wireless setting, but success page string show wireless setting is changed

SQA-21(bug 34536)After up to max PIN attack number, DUT always show WPS in progress

SQA-25(bug 35090)After configure the security as "No Security" by wired/wireless external registrar, Found the "Security Options" wil keep original setting in GUI

SQA-26(bug 34631)WPS LED will turn off after configure DUT from unconfigure status

SQA-27(bug 35091)When configure the security as "4 combinations" by wired/wireless external registrar. Found the "Security Options" always display as "WPA/WPA2-PSK" in GUI

SQA-30(bug 33265)5GHz HT40(450Mbps) channel rule should follow router spec require

SQA-31(bug 33265)5GHz HT40(450Mbps) channel rule should follow router spec require

SQA-32(bug 32958)The default password to login DUT is "password", according to PRD, the default password is the S/N number on the box.

SQA-34(bug 35288)When multi login occur, there is a message (You are currently...)

SQA-37(bug 34390)"Continute" button not work on IE9/IE10

SQA-38(bug 35291)In Network Devices page, after click "Wired Devices", the description in Help Center will disappear

SQA-40(bug 35293)In WPS page, the description display abnormal with redundant characters: \"Push 'N' Connect\" or \"PIN Number\".

SQA-43(bug 34590)The NMRP server can't detect more than two DUTs.

SQA-44(bug 35295)There warning message is blank for loading a invalid firmware file.

SQA-45(bug 35179)DUT didn't redirect browser to the new page if we modify DUT to a new IP

SQA-46(bug 34603)The WAN port MAC address at www.mywifiext.com/hidden_info.htm page showed FF:FF:FF:FF:FF:FF

SQA-47(bug 35296)The option of GUI didn't correspond to the Spec

SQA-48(bug 35297)The GUI of Japanese Version didn't be translated completely. Refer to the attached file for detail

SQA-49(bug 35298)Firmware checking failed

SQA-50(bug 35167)According to NETGEAR spec. Rev.10 (101311), page 327, DUT should pull-down the Ethernet PHY of LAN for 3 seconds and pull it back to high. This is to force LAN PC's to re-acquire their IP

SQA-51(bug 35299)After uploading the incorrect configuration file, the error page can't automatically return to the previous page in few seconds.

SQA-52(bug 35300)When we upload configuration file and system restart, GUI will redirected to routerlogin.net.

SQA-53(bug 35301)When we upload incorrect firmware image into the DUT, the pop error message is only "img". There should be string missing

SQA-54(bug 34743)The GUI incorrectly shows NETGEAR "Router" WNCE4004 on browser title

TD-2 It doesn't pull down and up the Ethernet interface after making a new wireless

TD-3 There is no DHCP server enabled by default or at disconnected state

TD-4 The DUT bridge mode can't be configured by IE9. It stops at the entering passphrase page

- TD-7 The wording for WPS wizard is for AP, not client/bridge
- TD-8 Changing the bridge IP address from DHCP client to static IP makes the GUI fail
- TD-9 It takes the PC about 90 seconds to get IP from the connecting WNDR4500 through WNCE4004
- TD-11 After uploading the incorrect configuration file, the error page can't automatically go back the the previous page and make the GUI abnormal
- TD-12 After uploading configuration file and system restart, the GUI is redirected to routerlogin.net, not mywifiext.net
- TD-13 Uploading incorrect firmware image into the DUT, the pop error message is only "img"
- TD-14 The GUI shows NETGEAR "Router" WNCE4004 on browser title
- TD-15 Only parts of the page is updated after changing the display language

2.Attention

It won't succeed if upgrading the FW via UI, because the HOST_NAME has changed to uppercase. So please upgrade in u-boot via tftp or NMRP.

1.6.2 Steps to burn boot loader

1. Please use u-boot-V1.0.0.8.bin
2. Set up a tftp server on your PC
3. Entering boot loader
4. ar7240> setenv serverip (your PC ip)
5. ar7240>tftp 0x80800000 u-boot-V1.0.0.8.bin;erase 0x9f000000 +0x40000;cp.b
\$fileaddr 0x9f000000 \$filesize
6. ar7240> setenv bootcmd "bootm 9f050000"
7. ar7240> saveenv
8. ar7240> reset

1.6.3 Known Issue

Cut the part of AP mode off and add wizard flow.

There is HT20 throughput IOT issue with some routers

The link rate to WNDR4500 (dual band N900) is only up to 300Mbps, not 450Mbps

1.7 Firmware V1.0.0.14

Fix these bugs based on V1.0.0.12:

1. When DUT not success connect to root AP(wrong password), it continue pulls Ethernet port down and up. So user will can't login again.
2. can't upgrade this firmware through GUI

1.8 Firmware V1.0.0.16

Fix these bugs in V1.0.0.16

1. TD-1 The implementation should hijack any other DNS requests and redirect to www.mywifnext.net...etc.
2. TD-19(bug 35774) Using fix IP for DUT, the status page shows incorrect layout for DNS and gateway. There are two 192.168.1.1 for gateway while the DNS is ...
3. TD-21 Changing the connecting AP via WPS or roaming doesn't trigger Ethernet interface reset.
4. Bug 35626 [Statistic]The statistics page LAN Collisions is very large
5. Bug 34603 [UI][ST/SQA-46]http://192.168.1.240/hidden_info.htm page show wrong information when set DUT in 5G AP mode

1.9 Firmware V1.0.0.18

1.9.1 What's New

1. Bug fixed

- Bug 36005 [GUI]DUT will run setup again after select "I want to config myself"
- Bug 36003 [GUI]The "Setup wizard " should be "Connect to Existing Network"
- Bug 36002 [GUI]Setup wizard need modify
- Bug 36001 [GUI]when DUT disconnect with root-ap or not get ip,hijack dns to a new page
- Bug 35999 [GUI]When i click advance wireless setting it will flash as AP mode setting
- Bug 35843 [login>Login will not require password input after click "cancel" in login window
- Bug 35837 [Upgrade][NETGEAR-Defect-16]The auto firmware upgrade only works when there is string table information present in the fileinfo.txt
- Bug 35834 [Network Map][NETGEAR-Defect-17]The connecting PC with Win7 or Vista can't create the network map through the DUT
- Bug 35833 [GUI][NETGEAR-Defect-20]The landing page is incorrect when DUT is connected to root AP and Internet

Bug 35826 [GUI][NETGEAR-Defect-22]The auto language selection is not working correctly
Bug 35691 [login]when input wrong password, should not kick out first login pc
Bug 35171 [wireless][NETGEAR-Defect-6]The link rate to WNDR4500 (dual band N900) is only up to 300Mbps, not 450Mbps
Bug 35298 [upgrade][SQA-49]Firmware checking failed. Refer to the attached file.
Bug 34569 [WPS]DUT station mode should detect WPS overlap
Bug 34563 [WPS]DUT station mode WPS will can't connect to Dual-band 5G after first connect to 2.4G
Bug 34551 [UI]The scanning progress bar will finished when GUI show 63%
Bug 34186 [WPS][NETGEAR-Defect-7]DUT station mode WPS GUI always stay in WPS progress even success connect to AP
Bug 33723 [DHCP]The pc behind DUT acquire ip address speed very slow from roo ap
Bug 33279 [POT][ST/SQA-42][Case ID-4004258]POT tools can' get and set DUT POT value

1.9.2 Known Issue

2.0 Firmware V1.0.0.19-TEST2

2.0.1 What's New

1. Bug fixed

Bug 35834 [Network Map][NETGEAR-Defect-17]The connecting PC with Win7 or Vista can't create the network map through the DUT
Bug 36002 [GUI] Setup wizard need modify
Bug 36318 [Config file] DUT will auto reset to factory default when not success saving date
Bug 36525 [GUI][NETGEAR-IR-018]"In the following sentence something is missing from the test (possibly a file name?); 2. Locate and select the previously saved backup file (by default)."
Bug 36527 [GUI] [NETGEAR-IR-021]"Missing space in the following helpcenter text; Settings Screens, not your ISP account password. "
Bug 36528 [GUI] [NETGEAR-IR-006/022/057]When trying to turn-off the 'Check for New Version upon Log-in' option, an error occurs. It's not possible to disable this Feature.
Bug 36529 [Scanning Result][NETGEAR-IR-025]"When viewing the list of Existing Networks to connect the device to, the order of the list should be sorted in order of Signal Strength. The strongest signal should be at the top and the weakest at the bottom."

- Bug 36530 [GUI][NETGEAR-IR-026/063/082]When on the genie setup page where I enter the network Passphrase, if you press the enter key after putting in the security Key for WPA2-AEP on setup you get.
- Bug 36515 [GUI][NETGEAR-IR-011]In the following text; Get Dynamically From Router: The dhcp client of device will get an IP address automatically after it connects to your existing router. dhcp should be in uppercase
- Bug 36519 [GUI][NETGEAR-IR-012]"The buttons 'Cancel' and 'Apply' read left to right, however their corresponding help center text when read top to bottom are in a different order. Left to right should match top to bottom. Either the help center text should be change.
- Bug 36522 [GUI][NETGEAR-IR-017]"In the following paragraph there is a space missing between the first two words; IMPORTANT!Once you start restoring settings or....."
- Bug 36526 [GUI][NETGEAR-IR-019]"In the following text a space is missing between the first two words; IMPORTANT!Do not try to go online, turn off the device, shu"
- Bug 36594 [GUI][NETGEAR-IR-62][NETGEAR-Defect-64]Frame with wifi network cutoff
- Bug 36598 [NETGEAR-IR-100] [NETGEAR-Defect-73] Security WEP can't be supported

2. Others

Add two hidden pages for test: [hidden_apmode.htm](#) and [hidden_channel_wifi_coexist.htm](#)
 When the device connects to a root AP, the led will display in red, amber or green according to link rate but not before the only green.

2.0.2 Known Issue

2.1 Firmware V1.0.0.21-TEST1

2.1.1 What's New

1. Bug fixed

- IR-032 Has been fixed the issue that STB Motorola connected to WNCE4004, IPTV doesn't works. With WNCE3001 all works fine.
- IR-114 Fix some text didn't localized and the status bat didn't up to 100% question.
- IR-115 The message "or press reset button" has been changed to "or press the reset button".
- IR-116 Has been led the word "refresh" in blue.
- IR-117 Has been removed the space between the file name and the '.

- IR-119 Has been removed the space between the file name and the ‘)’.
- IR-122 Has been added the text relating to the on-line checking for Firmware updates is described in the Help Center text.
- IR-123 Has been let the URL for www.NETGEAR.com link to a new page: www.netgear.com.
- Bug[36741][IR-139] Has been removed the HTML link element.
- Bug[36743][IR-142] Has been added a space between WPA-PSK and [TKIP].
- Bug[36747][IR-144] Has been removed the extra space on the “Wireless network name (SSID)”.
- Bug[36745][IR-145] Has been let the page4 lay out in a similar way to the “Device Status” page.
- Bug[36750][IR-147] Has been removed the unnecessary carriage return from the end of the first line.

2. Others

The WPS LED state has been fixed depends on the WNCE4004 PRD V5, 06-25-12.

2.2 Firmware V1.0.0.22-RC1

2.2.1 What's New

1. Bug fixed

- IR-108 Fixed the GUI problem after Software WPS connection.
- IR-107 After reset to default, if user uses WPS to connect to root AP, if user moves to mywifi page, it will not show wireless Extender page but jump to index.htm page directly.
- Defect ID-85 Fixed the issue that when cancels the checkbox stays unchecked sometimes causes an error.
- Defect ID-7 Fixed some WPS wizard strings show errors.
- Bug36804 Sometimes DUT will stop scanning after connect to root AP through WPS push button.
- Bug35807 Fixed the issue than when check the new version and always show can not find new firmware.

2. Others

Fix some Japanese strings translation errors.

Support UK, PE,RU,NA,JP and UK wireless region, and if the Region is RU and NA then disable region select.

Improve data rate with 450M router in status page.
Show channel and region in status page.
Add check art at boot time, will store if block is erased.

2.3 Firmware V1.0.0.22

2.3.1 What's New

Please use `artmt` in linux console to set region, then do a factory default.

Usage: `artmt -w regionset region_name`

For instance : `artmt -w regionset NA`

The REGION name only is "NA,WW,GR,PR,RU,BZ,IN,KO,JP,AU,UK,PE"

Update `u-boot-wnce4004-0801.bin` to support more region code.

1. Please use `u-boot-wnce4004-0801.bin`
2. Set up a tftp server on your PC
3. Entering boot loader
4. `ar7240> setenv serverip (your PC ip)`
5. `ar7240>tftp 0x80800000 u-boot-wnce4004-0801.bin;erase 0x9f000000 +0x40000;cp.b
$fileaddr 0x9f000000 $filesize`
6. `ar7240> setenv bootcmd "bootm 9f050000"`
7. `ar7240> saveenv`
8. `ar7240> reset`

1. Bug fixed

Bug 36960 [GUI]France and Italy language table issue

Bug 36956 [GUI]sometime click "Setup wizard" will sometimes direct to Congratulations! page

Bug 36954[GUI]When DUT success connect to Internet, after click setup wizard not show wizard_already.htm

Bug 36953 [GUI]Russia language WPS help is blank

Bug 36946 [LED]WPS LED not stop flash after cancel WPS until 2 minutes timeout

2. Others

JP strings update. Remove ">" after some strings.

Remove 1-/2-/3-/4- in the Smart Wizard.

Fix the alignment issue in Smart Wizard in Russia/German language.

2.4 Firmware V1.0.0.24

2.4.1 What's New

1. Bug fixed

[GUI]Remove Extender in GUI, replaced with device

Russian 5G only support 4 channels now, follow router RU changes.