

RDAA-81-Generic v2.00

Release Note

Version:2.00e14

Release Date:2007/12/28

New Features:

1. Support wireless band selection in 802.11A mode.

Version:2.00e13

Release Date:2007/12/21

Fix Bugs:

1. SNMP can't accept special character.Example: "~!@#%&*_+{|:~<?>".
2. The Radio mode doesn't have turbo G but the wireless mode have the item of AckTimeOut (Turbo 11g).
3. If ISP setting set up to Static IP address, and DNS has not input IP Address, It sometimes will be show error IP Address.
4. If DUT disable "Disable ping from Internet", after DUT reboot, DUT will be enabled "Disable ping from Internet".
5. On the Client mode, set the item of the Service Name, System Location and System Contact to None characters. Use the MG-SOFT MIB Browser to get the information. The MG-SOFT MIB Browser gets default characters. It's different to UI SNMP Setting.

Version:2.00e12

Release Date:2007/12/14

Fix Bugs:

1. On the Client mode, DUT use "Site Survey" function but that "Site survey list" is empty in 802.1X, WPA, WPA2, WPA-PSK and WPA2-PSK.
2. On the Repeater mode, DUT use "Site Survey" function but that "Site survey list" is empty.
3. PPPoE Pass Through function failed.
4. On the Bridge_PureMAC mode, click "ADD" button directly and then GUI shouldn't pop up the "Configured successfully" message.
5. In the "MAC Filtering Settings" page, GUI shouldn't accept the DUT's wired and wireless MAC address setting.
6. Extended Range Enable Extended Range Function, Atheros Utility no display XR Icon.
7. XR of Repeater mode not work On the Repeater mode, DUT configure "Enable Radio eXtended Range" but wireless card doesn't get "XR" status from "Atheros Client Utility".
8. If DUT IP address within DHCP Server IP range, DUT will be not disable DHCP Service; It will be pop a message.

Version:2.00e11

Release Date:2007/11/15

New Features:

1. Support all security policy in WDS Repeater mode.

New Modifications:

1. Modify the minimum age out timer to 1 minute (instead of 1 second) on GUI.

Fix Bugs:

1. On the Client Infrastructure mode, DUT's "SG with dynamic turbo" throughput doesn't pull up to turbo mode such that it has poor throughput performance.
2. In WDS Repeater/Bridge Mode Super G Throughput is very poor.
3. On the WISP mode, switch the ISP settings to PPPoE and then DUT enable DMZ->add Multiple DMZ and then Delete, you will find the delete button not work.
4. At Multiple SSID page, Add Multiple SSID and then Delete, you will find the delete button not work.

Version:2.00e10

Release Date:2007/09/07

New Modifications:

1. Remove auto channel selection in WDS bridge pure MAC mode.
2. Remove open / shared selection of WEP security in Ad-hoc mode.
3. AgeTimeout setting changes to minute.

Fix Bugs:

1. On the WISP mode, switch the ISP settings to PPPoE and then DUT enable DMZ or "Virtual Server" such that GUI pop up "Internal Operation Error" message.
2. On the WISP mode, configure the "Service Name" field of PPPoE ISP setting but DUT doesn't send that configuration in the "PPPoED Initiation and Request" packets.
3. Switch security policy several times will cause system crash.
4. Switch security policy several times will cause wireless connection break.
5. B only STA can connect to G only AP.
6. All security policy won't work when user type 32 characters SSID.
7. PC can't get DHCP IP address from server in WDS repeater mode.
8. DHCP server will send wrong second dns server IP.
9. DHCP can add entry with DUT's IP.
10. DUT1 and DUT2 have different SSID, then could connect.
11. DUT1 set in channel 9 as a creator, DUT2 could be joined in channel 8, 9, and 10.
12. Syslog packets are still sent by DUT when enable/disable option is disabled.
13. Wrong beacon interval in beacon packets.

14. WMM always uses best effort settings.
15. Fix wep key do not show in Multiple-SSID.
16. DMZ and Virtual Server can't set DUT IP Address now.
17. When delete WDS Bridge Mode Pure MAC entry, no successful message if click apply with no selected entry.
18. Fix Enable NTP and set by name "ntp.nasa.gov", when APPLY, "by IP address" field will have ip 39.70.82.185.
19. Add check to SNMP settings, when no selected entry, user can't not click delete button.
20. Add Syslog IP address check .
21. Fix Add Mac Filter mac address over 30 item, it will happen wireless MAC become 00-00-00-00-00-00, and Radio Table Op Channel become 858992977, Assoc become 4294967295.
22. Wireless connection could not be established while security was configured to Super mode with WPA/WPA2/WPA-PSK/WPA2-PSK with AES encryption.
23. WMM 802.11A band no work.
24. G/B Throughput sometime is 4-9Mbps or 1-2Mbps, and sometime it can't work.
25. DUT-1 creates the Ad-Hoc network on 11a ch-140, and then DUT-2 use "Site Survey" to join it. However, DUT-2 couldn't find it in the "Site Survey" page but DUT-2 still can join in DUT-1 manually. Furthermore, the Client_Infrastructure/WISP mode also couldn't find 11a ch-140 AP while use "Site Survey" function.
26. Wireless card (CB9) connect to DUT (AP mode) on 11g and chariot throughput have 19~21 Mbps. After re-plugging the power or doing software reboot activity, DUT will have lower throughput (about 16~18 Mbps).
27. On the Client_Ad-Hoc/WISP mode, DUT's "b/g ch-13" has poor and unstable throughput (about 12~14 Mbps). Please refer to the attached file.
28. On the AP and Client_Infrastructure mode, DUT's b/g ch-13 have poor and unstable throughput.
29. In bridge infrastructure mode, ping can't be successful after cleaning arp table in PC.
30. When three DUTs in bridge mode are connected to an AP individually, the ping is unstable.
31. In AP mode , site survey 11a band will hold.
32. 802.1x peap and ttls don't work.
33. Wireless client table in AP mode is incorrect when three repeaters connect to the AP.
34. Three repeaters are connected to an AP individually. However, wireless client table in repeater #1 will show the wireless client which is connected to repeater #2.
35. Three repeaters are connected to an AP individually. After that, change AP's channel from 11a 48 to 11a 100 DFS channel, and the connection between ap and repeater isn't established. Repeater must reboot to establish the connection.
36. Three DUTs in bridge mode are connected to an AP individually. The wireless client table will be cleaned immediately when users power off the DUTs in bridge mode.
37. There are some "Help" files mapping error (ex: "Wireless Setting", "Radio Table", "Site Survey", "MAC Filtering", "SSID Setting", "QoS" pages.... etc).

New Modifications:

1. Support WDS bridge (pure MAC) mode.

Fix Bugs:

1. Telnet doesn't work.
2. In WDS repeater mode, when use A mode DFS channel repeater doesn't support radar check. (Fix DFS channel can't connect issue.)
3. Lower throughput after re-plug power in AP mode.

Fix Bugs:

1. When DUT enable multiple SSID with VLAN function under AP mode, the wireless radio will be closed after enabling RADIUS server setting. In this case, wireless LED isn't light and wireless client couldn't find DUT.
2. Configure two DUTs to enable multiple SSID with the same VLAN-ID and their LAN ports connect to HUB. Then, wireless client-1 associate with that SSID of DUT-1 and wireless client-2 associate with that SSID of DUT-2. However, wireless client-1 to wireless client-2 connection is broken.
3. Configure two DUTs to be "Client_Ad-Hoc" mode and running chariot, but the connection will always be broken. In this case, console shows "VM: killing process sh" message.
4. Configure the "IP Filtering" function to "Grant" UDP packets with port-69, but the TFTP traffic couldn't be accessed under WISP mode.
5. When DUT enable "Virtual Server" function under WISP mode, the "Virtual Server" configuration will be disappeared after re-plugging the power.
6. On the WISP mode, DUT shouldn't send RIP packets out every 30 seconds while "IP Routing" function enable "RIP1/RIP2: Receive Only" setting.
7. On the WISP mode, using the static ISP IP setting to link with AP and the connection is established. After re-plugging the power, the connection will be broken. In this case, change the default gateway IP of static ISP setting and then the connection will be re-establish.
8. When DUT enables DMZ function under WISP mode, the DMZ configuration will be disappeared after re-plugging the power.

Fix Bugs:

1. Change DUT's IP address but the range assigned by DHCP server doesn't follow.
2. Configure the DHCP server to assign static IP address with the client MAC address, but DUT still assigns dynamic IP to that client.
3. Web GUI pops up "Internal Operation Error" error message when RIP function of IP Routing is enabled. This function doesn't seem to work.
4. In ISP mode, we use PPTP to connect to Internet but WAN IP address shows wrong IP address.
5. After DUT loading factory default and configuring PPTP ISP setting, "ping" couldn't be success for waiting over 10 minutes. In this case, PPTP server has associated station record but "ping" is fail. DUT needs rebooting activity to take effect.
6. In the WISP mode, the "Virtual Server" function doesn't work.
7. In the WISP mode, the "IP Filtering" function doesn't work.
8. In the WISP mode, the DMZ function doesn't work.
9. Switch ISP setting from "Static ADSL IP" to "PPPoE", and then PPPoE connection couldn't link. However, there is no problem when switch DHCP ISP to PPPoE settings.
10. DUT can't change to configure setting after rebooting when DUT restores configure file.
11. In ETSI domain and B/G/trouble G mode and the Band Edge Max Power of ETSI domain<16 then set txpower =16 dBm.
12. DUT's "11A_DFS" and "SuperA" mode have poor throughput under AP mode.
13. DUT's "SuperG" and "SuperG with Dynamic turbo" mode have poor throughput.
14. In the Client_Infrastructure/WISP mode, DUT uses "Site Survey" to associate AP with security mode WPA/WPA2/802.1x. In the "Wireless Setting" page, the SSID and operation mode configuration will change back to previous setting after importing certificate.
15. In the WIPS mode, the configuration fields of "Virtual Server" page have wrong position while using English IE6.
16. DUT's DHCP server shouldn't accept the assigned range from "192.168.1.2" to "192.168.1.1" when DUT's IP is "192.168.1.1".
17. In the "Site Survey" page, DUT's WISP mode selects AP that SSID is "BCM 94704G" and WEP security to associate, then "Wireless Settings" page take that "BCM" SSID and none security configuration.
18. VLAN doesn't work.
19. DUT send the wrong default AC_VI and AC-VO "TXOP Limit" value in the beacon packets.
20. WISP mode connects to AP and switch AP 11g operation channel for several times will cause wireless connection break.

New Features:

1. Support EAP-PEAP and EAP-TTLS.
2. Support wireless security in Bridge operation mode.
3. Support “Open” and “Shared” authentication type in WEP security setting.

New Modifications:

1. Modify default value of WMM parameter.
2. Modify default wireless mode in Client / Bridge / WISP and Repeater operation mode.
3. Please verify WISP mode of PPTP and PPPoE.
4. Please verify NTP client.

Fix Bugs:

1. Fix: No beacon would be sent in 802.11a mode.
2. Fix: Special characters can't type in SSID field.
3. Fix: Special characters can't type in WEP key field.
4. Fix: No beacon would be sent in AP mode.
5. Fix: WMM value is abnormal.
6. Fix: Configure “Age Out Timer” to be 60 seconds, but DUT clean the wireless client entry after 120 seconds. If this value is set as 30 seconds, that entry will be cleaned after 140 seconds.
7. Fix: QoS (WMM) function doesn't work.
8. Fix: Using Kiwi Syslog Daemon tool can't get DUT Syslog.
9. Fix: DUT couldn't restore the saved configuration file.
10. Fix: After changing to other operation mode (WDS Repeater/WDS Bridge/Client...), Web UI doesn't display different title to let end-user know what current operation mode is. Suggest to add the title to make the differentiation.
11. Fix: Bridge mode security adds 802.1x WPA/WPA2 WPA-PSK/WPA2-PSK.
12. Fix: In client infrastructure mode, bridge mode, and WISP mode, 802.1x WPA/WPA2 add PEAP / TTLS Eap type.
13. Fix: When switch 11a DFS channel quickly within 80 seconds, system would be crash!
14. Fix: Switch 11a auto & 11b/g auto , 11a auto & 11a 36 DUT would happen kernel panic.

New Features:

1. ISP(PPPoE,PPTP,StaticIP,Dhcp) change smoothly in WISP mode

Fix Bugs:

1. On the "Client_AdHoc" mode, the out of box setting should be "11b" mode, instead of "11g only."
2. DUT loads factory default value and then changes DUT's IP. UPNP function needs to re-enable so that DUT could be accessed via "Network Neighborhood" or "Intel Device Spy."
3. Fill the maximum characters into the System Name (Max=32), Location (Max=60) and Contact (Max=60) of SNMP settings, but Mib-Browser couldn't get fully string.
4. Change the system name in the SNMP setting and check the information via UPNP function. Client re-connects with DUT but the system name still uses previous configuration. In this case, DUT needs reboot to take effect.
5. NTP function couldn't be enabled.
6. Fail to restore config file.
7. Use Kiwi Syslog Daemon tool can't get DUT Syslog.

New Features:

1. Support 802Dot11 MIB.
2. Support Radio Table.
3. Support WISP mode.

New Modifications:

1. Add 802.11b in ad-hoc mode.
2. Remove 11g turbo and Super G with static turbo mode.

Fix Bugs:

1. When switching 11a DFS channel quickly within 80 seconds, system would be crash!
2. Switch 11a auto -> 11b/g auto, 11a auto -> 11a 36 DUT would cause kernel panic.
3. Use "Intel Device Spy" to catch DUT information but show wrong port number.
4. In SNMP Settings GUI, set over 31 character in the "System Name" field and APPLY then after the 31th character would be replace by "System Location" field's characters.
5. If set special character in the "System Name" field and apply then GUI will display error.
6. "Help page" mapping error.
7. Configure "Age-Out Timer" to be 60 seconds, but DUT clean the wireless client entry after 120 seconds. If set 30 seconds, that entry will be cleaned after 140 seconds.
8. To enable STP function but there isn't any "Spanning Tree Protocol" packet.
9. After changing to other operation mode (WDS Repeater/WDS Bridge/Client...), Web UI doesn't display different title to let end-user know what current operation mode. Suggest adding the title to make the differentiation.
10. On the "Client Infrastructure" mode, switch these encryption settings (WPA-PSK -> WPA with import CA -> WPA2-PSK -> WPA2) and then re-plug the power. DUT will be crashed and wireless LED isn't light.
11. Two DUTs build "Client Ad-hoc" connection but it is very unstable. This connection often is broken and one of DUTs

sometimes doesn't send beacon packets.

12. On the "Client Ad-hoc" mode, DUT change some configuration (like channel or encryption) so that connection couldn't be built. In this case, DUT often doesn't send beacon packets.
13. On the "Client Ad-hoc" mode, the "Site Survey" table has less available network at noisy LAB.
14. DUT couldn't restore the saved configuration file.
15. In client mode, the Super mode RX throughput is poor.

Version:2.00e03

Release Date:2007/02/15

New Modifications:

1. Advance wireless setting won't pop out "ACK Timeout is invalid" message.

Known Issues:

1. QOS function is not ready.

Version:2.00e02

Release Date:2007/02/14

New Features:

1. Support WMM and VLAN.

New Modifications:

1. Device will reboot when switching operation mode.
2. Remove "Turbo G" and "Super G with static turbo" wireless modes.
3. Remove "Rate Control" in Client infrastructure / Ad-hoc and WDS-Bridge operation mode.
4. User can't set "SPACE" in password field.
5. Default value of wireless mode is changed to "11b/g".
6. Some special characters can't be set in SSID field.
7. Notice message is added when radar detecting is active.
8. Default WEP authentication type is changed to "AUTO".
9. Only associated clients would be shown in wireless client table.
10. Only 1 SSID can use WEP security policy.
11. Title of Browser is changed to "AirRDAA-81".
12. Remove MAC filtering Page in Client mode.
13. "HELP" page is modified.

Fix Bugs:

1. "Time Zone" setting would be saved to system configuration.
2. Boundary check is added for Gateway IP / WPA-PSK / WPA2-PSK / RTS / RADIUS server IP fields.
3. ACK timeout element will be shown depend on current country domain.
4. HEX WEP key should work now.
5. Privacy separator should work now.

6. Country IE won't be attached in beacon when 802.11d is disabled. (Only works in G mode)
7. User can change HTTP port number now.
8. Web will deny user setting when it's timeout.
9. STP should work now.
10. Syslog message will be shown in System Log page.
11. RSSI field in wireless client table is correct now.
12. UPNP description is correct now.
13. Device Spy can get message from device now.
14. Settings of SNMP trap and MAC filter will be keep after reboot.
15. Connection of WDS-Repeater should work now.
16. MAC filter in WDS-Repeater should work now.
17. User can associate to AP via Site survey page now.
18. DHCP client can get IP in client infrastructure mode.
19. Previous setting won't be shown on page after user import CA into system.
20. Device won't crash when switch wireless security policy.
21. Settings of slot time and preamble are adjusted.
22. User can set new configuration via MIB-Browser.
23. SNMP trap should work now.
24. User can restore saved configuration file to system now.
25. H/W reset button should work now.
26. LED function should work now.
27. Invalid firmware couldn't be upgrade to system now.

Version:[2.00e01](#)

Release Date:[2007/01/](#)

New Features:

1. Support WDS repeater mode, WDS bridge mode, client mode and Ad-hoc mode.
2. Support multiple SSID.

New Modifications:

1. Wireless Driver changed to Madwifi driver.

Known Issues:

1. QOS function is not ready.