



Software Release Note for STA

This document is property of Ralink Technology, Inc. Transmittal, receipt, or possession of this document does not express, license, or imply any rights to use, sell, design, or manufacture from this information or the software documented herein. No reproduction, publication, or disclosure of this information, in whole or in part, shall be allowed, unless the prior written consent of Ralink Technology, Inc. is obtained.

NOTE: THIS DOCUMENT CONTAINS SENSITIVE INFORMATION AND HAS RESTRICTED DISTRIBUTION.

Product Name	RT2860/RT2890/RT2760/RT2790 Wireless Card
Interface Supported	CardBus, MiniPCI, PCI, PCIe
Install Package Version	IS_AP_STA_RT2860_D-1.1.0.0_VA-2.0.2.0_RU-2.0.7.0_VA-2.0.8.0_AU_1.2.2.0_VA-1.0.5.0_112607_0.1.0.37
XP/2K Driver Version	1.1.0.0
Vista Driver Version	2.0.2.0
XP/2K STA User Interface Version	2.0.7.0
XP/2K SoftAP User Interface Version	1.2.2.0
Vista STA User Interface	2.0.8.0
Vista SoftAP User Interface	1.0.5.0
Date	2007-11-26

System Requirement:

Ralink RT2860/RT2890 series miniport drivers require NDIS 5.0, NDIS 5.1 for windows XP/2K and NDIS 6.0 for Vista.

NOTE: For end-users previously installed OEM provided package. Please uninstall it before running this Ralink released package.

Hardware Supported:

- Ralink RT2860 chipset PCI Adapter
- Ralink RT2860 chipset miniPCI
- Ralink RT2860 chipset CardBus
- Ralink RT2890 chipset PCI Express

Software Supported:

Windows 2000, XP 32/64 and Vista 32/64.

Release History:

[IS AP STA RT2860 D-1.1.0.0 VA-2.0.2.0 RU-2.0.7.0 VA-2.0.8.0 AU 1.2.2.0 VA-1.0.5.0 112 607 0.1.0.37](#)

Install Package:

1. Copy bin files to system manually on all windows OS.
2. Change shortcut to RaUI after running overwrite install at AP mode.

Driver Vista 2.0.2.0:

1. Fix low throughput issue on AES security mode.
2. Enhance WPS function.
3. Fix channel 126 not working.
4. Fix 5G band may not use OFDM rate.
5. Update rate adaption.
6. Add SSID check before updating last beacon rx time.
7. Fix AdHoc connection issue from suspending.
8. Fix site survey issue after installing Kaspersky.

RaUI Vista 2.0.8.0:

Fixed:

1. After finish WPS and delete profile 1 of WPS , it can't connect profile 2.
2. After finish WPS, RaUI exits then open it again,the site survey of WPS is empty.
3. After finish WPS, RaUI exits then open it again, the STA can't connect WPS AP.
4. When editing profile, the Ascii WEP key isn't limited to length 13.
5. STA wireless mode is affected by soft AP wireless mode due to failed to copy the default STA registry values back to root. Remove all the copy registry actions.
6. Select TLS protocol then PEAP-CHAP2, and the user is always asked for client certificate.

Modified:

1. If the item index is illegal, return without calling CQuickList::GetItemData().
2. Disable WPS button for ZeroConfig.
3. Warn user when the profile name is empty.
4. After connection is finished, update BSSID list on WPS page.

ApUI Vista 1.0.5.0:

Fixed:

1. The Allow-BW40 checkbox isn't grayed when selecting channel 14.
2. STA wireless mode is affected by soft AP wireless mode due to failed to copy the default STA registry values back to root. Remove all the copy registry actions.
3. After pnp test, the central channel is illegal. (The channel in registry : 10 ; in ini file : 1
-> Driver set channel as 10 ==> channel is 10 ; central channel is 12

-> UI set HT phy mode

-> UI set channel as 1 => channel is 1 ; central channel is 12)

Change the OID setting sequence => channel then HT phy mode.

Driver XP 1.1.0.0:

1. Fix low throughput issue on AES security mode.
2. Enhance WPS function.
3. Fix channel 126 not working.
4. Fix 5G band may not use OFDM rate.
5. Update rate adaption.

RaUI XP 2.0.7.0:

Fixed:

1. Applying advance settings causes disconnection.

Modify:

1. Non-admin can use profile page, but no "Edit","Add" and "Delete" behavior.
2. Set WPS preferred phy mode.

APUI 1.2.2.0:

Fixed:

1. When wireless mode is ABGN mode, it can show BG mode. It should set BGN mode and show BGN mode.
2. When wireless mode is ABG mode, it can set ABG mode, but show BG mode. It should set BG mode.
3. When AC/Battery switch, APUI show disconnect at toolbar.

[IS AP STA RT2860 D-1.0.4.0 VA-2.0.0.0 RU-2.0.3.0 VA-1.0.18.0 AU-1.2.0.0 VA-1.0.3.0 091407 0.1.0.29](#)

Install Package:

1. Disable ICS before overwriting at AP mode.

Driver Vista 2.0.0.0:

1. Enhance throughput.

RaUI Vista 1.0.18.0:

1. Leaving the wireless combobox opened then removing card causes failed assertion.
2. Invoking Windows profile setting dialog failed.
3. HW-PBC doesn't work after enabling WPS page then closing UI.
4. Add WMM.

ApUI Vista 1.0.3.0:

1. The MAC table isn't displayed correctly.

IS AP STA RT2860 D-1.0.4.0 VA-1.0.6.0 RU-2.0.3.0 VA-1.0.15.0 AU 1.2.0.0 VA-1.0.0.0 08
0207 0.1.0.24

Driver Vista 1.0.6.0:

1. Fix multiple ssid issue
2. Fix Channel report issue
3. Fix Adhoc TX throughput issue
4. Fix WPS PBC issue

RaUI Vista 1.0.15.0:

1. Correct the wrong spelling of "password".
2. Set OID_DOT11_DISCONNECT_REQUEST when disconnecting WPS connection.
3. After disabling and enabling card several times, sitesurvey page couldn't scan A-band APs.
4. If the user isn't administrator, remove "Switch to AP" selection.
5. Connect to WPS-incapable AP when two APs use the same SSID.
6. HW PBC doesn't work.
7. Generate enrollee's pin code randomly.
8. Add import WSC profile function.

ApUI Vista 1.0.0.0:

1. Enable DHCP server.
2. Write ap settings to ini file instead of registry.

Driver XP 1.0.4.0:

1. Fix WPS issue.
2. Extend Variable IEs buffer.
3. Update IOT.
4. Fix PSPXlink issue.

RaUI XP 2.0.3.0:

Fixed:

1. When there are two APs with the same SSID, connect WPS' profile and it can link to AP with open authentication.
2. When there are two APs with WPS and same SSID, you click PBC button. Aegis can set OID with Shared-Authentication.
3. WPS issue about clicking PBC or PIN.

Modify:

1. When choosing registrar and selecting open and none-wep authentication, need to popup the dialog to confirm it.

2. Password in 802.1x function is encrypted optionally.
3. Add 'Import WPS' profile to Profile page.
4. Renew Pin code every times.

APUI 1.2.0.0:

1. Default value of wireless mode is BG mode, not BGN mode in 802.11n device.

IS AP STA RT2860 D-1.0.3.0 VA-1.0.4.0 RU-2.0.2.0 VA-1.0.12.0 AU-1.1.9.0 060107 0.1.0.22

Install Package:

1. Support SoftAP on Windows 2000.
2. Disable ICS after uninstall.

Driver Vista 1.0.4.0:

1. Support WPS.

RaUI Vista 1.0.12.0:

1. RSSI value is abnormal while roaming due to query RSSI failed.
2. Connecting to 32-char AP causes memory corruption.

IS AP STA RT2860 D-1.0.3.0 VA-1.0.3.0 RU-2.0.2.0 VA-1.0.11.0 AU-1.1.9.0 052107 0.1.0.18

Install Package:

1. Remove Colnstaller value in registry before uninstalling driver.

Driver XP 1.0.3.0:

1. Update Firmware V0.7.
2. Support WPS Registrar.
3. Update IOT patch.
4. Fix random MAC address bug.

RaUI XP 2.0.2.0:

1. New edition of UI.

APUI 1.1.9.0:

1. When switching channel 14, BW value must be 20.

RaUI Vista 1.0.11.0:

1. The SiteSurvey page is empty when starting UI.
2. Add WSC support.
3. Windows profile can't be set due to illegal XML characters.
4. Query Rx rate failed.
5. Failed to connect to the SSID with space inside.
2. Use RT_OID_QUERY_STATISTICS to query linking statistics.

[IS AP STA RT2860 D-1.0.2.0 VA-1.0.3.0 RU-1.3.2.0 VA-1.0.10.0 AU-1.1.8.0 050307 0.1.0.15](#)

Install Package:

1. Integrate XP/2K/Vista driver and UI into one package.

Driver Vista 1.0.3.0:

1. Enhance throughput issue.
2. Fix hang issue after resume and then disable device.

[IS AP STA RT2860 D-1.0.2.0 RU-1.3.2.0 AU 1.1.8.0 041207 0.0.7.14](#)

RaUI:

1. RaUI doesn't work when executing pnp-test.
2. When connecting to AP with profile and keying in erroneous id, it doesn't show re-key in dialog.
3. Keep continuing to rescan in sitesurvey page.
4. Support WPS for 11n.

APUI:

1. When removing a card supporting A-band and inserting non-A-band card, it still shows A-band wireless mode string-table.

[IS AP STA RT2860 D-1.0.2.0 RU-1.3.1.0 AU 1.1.7.0 031507 0.0.7.12](#)

Driver:

1. Update R66 tuning algorithm.
2. Update firmware as V0.6 to fix radio on/off issue.
3. Rate selection when 1T2R.
4. Fix Marvel AP throughput issue.
5. Implement external LNA gain.
6. Fix bug in Ad-Hoc mode.
7. Minor update rate adaptation and in A band.
8. Update formula for calculating correct RSSI.
9. Fix bug when Ch14 with 40MHz BW.
10. Fix SoftAP WPA/WPA2 re-key issue.
11. Fix STA not disconnected in Win2k.

12. Fix crash issue in x64.

RaUI:

1. Sometimes MCS value is stuck to zero.
2. Go to wireless mode and select other mode then pop up dialog message, plug out card then pop up error message.
3. With legacy AP, it doesn't show central channel.
4. When plugging-in multi-card and plugging-out them, RaUI crash.

APUI:

1. Add customer ID.

IS AP STA RT2860 D-1.0.0.0 RU-1.2.8.0 AU 1.1.5.0 020707 0.0.2.0f

Driver:

1. First release.