TQ6000 GEN2 Wireless Access Points
Version 8.0.2-1.1 Software Release Notes

Read this document before using the management software. The document has the following sections:

Supported Platforms

The following access points support version 8.0.2-1.1:

- TQ6702 GEN2
- TQm6702 GEN2
- TQ6602 GEN2
- TQm6602 GEN2

For instructions on how to upgrade the management software on the TQ6000 GEN2 wireless access point, see the *TQ6000 GEN2 Wireless Access Point Management Software User's Guide*, available on the Allied Telesis Inc. website at **www.alliedtelesis.com/support.**

The firmware filenames are:

- AT-TQ6702GEN2-8.0.2-1.1.img
- AT-TQm6702GEN2-8.0.2-1.1.img
- AT-TQ6602GEN2-8.0.2-1.1.img
- AT-TQm6602GEN2-8.0.2-1.1.img

New Features

Version 8.0.2-1.1 added the following new features:

- Channel Blanket (AWC-CB) on the TQ6702 GEN2 and TQ6602 GEN2

  This feature can be configured only from Vista Manager EX. See the Vista Manager EX documentations.
- Dynamic Client Navigation (AWC-DCN)

  This feature can be configured only from Vista Manager EX. See the Vista Manager EX documentations.
- Redirect-URL for AMF Application Proxy

  This feature can be configured only from Vista Manager EX and functions under the Vista Manager EX or AMF-SEC management. See the Vista Manager EX and AMF-SEC documentations.
- Client isolation for each VAP
- New Countries to support
  - Singapore (all four models)
  - India (only TQ6602 GEN2 and TQm6602 GEN2)
- LACP and Static LAG on the LAN2 port
- Dynamic VLAN on the LAN2 port in Static LAG

Enhancements

Version 8.0.2-1.1 added the following enhancements:

- Vista Manager EX collects the following data from the access point:
  - Wireless usage to Vista Manager EX
  - RX rates of associated wireless clients
  - The access point’s CPU usage
  - Usernames of WPA Enterprise authentication
  - Wireless interface names when then the duplicate auth happens.
- UL MU-MIMO is supported on Radio2 Bandwidth: 20MHz setting.
  - UL MU-MIMO remains unsupported following condition
  - Rdaio1 Bandwidth: 20/40MHz setting
  - Radio2 Bandwidth: 40/80/80+80 MHz setting

- Reject logs are issued by MAC Access Control
  - When a wireless client is rejected based on MAC Address List or by External RADIUS, the following log is issued:

    ```
    hostapd: athX: reject STA yy:yy:yy:yy:yy:yy due to MAC
    Authentication
    ```

  - When a wireless client is rejected by AMF Application Proxy(AMF-SEC)

    ```
    hostapd: athX: reject STA yy:yy:yy:yy:yy:yy due to Application
    Proxy
    ```

- Hardware Watchdog is supported.

Resolved Issues

Here are resolved issues in version 8.0.2-1.1:

- The access point randomly did not send Kernel logs to Syslog Server.
- After setting MAC Access Control to Application Proxy from AMF Security Controller, the setting was not changed from the Web GUI management software on the access point.
- Spaces were added to the end of SSID in connect / disconnect logs when the SSID has 32 or more characters. This was a display issue only.
- The copyright year was not indicated correctly.
- LLDP packets from the access point after Initialing and restoring backup were shortened and incomplete.
- The TX power of Radio2 was incorrect when Radio2 channel was sett to auto.
- The access point did not transmit broadcast/multicast frames to wireless clients from wired network when Static LAG was enabled.
- The access point did not ignore the AWC-SC profile from Vista Manager EX.
- TCP connections remained even when Wi-Fi connection went down after the Captive Portal page was displayed.
- WPA keys were stored without being encrypted in backup configurations for VAPs from 8 to15.
- The access point issued a wireless client VLAN change log with VLAN0 even when the access point received a vlan change request from AMF-SEC without VLAN information.
- The access point was not able to be manged by Vista Manager EX in rare cases when the access point was booting up or a configuration was applied.
- The VLAN setting was not reflected in the Static LAG setting with the following conditions:
  - When upgrading Firmware version 8.0.1-1.1, in which Static LAG is enabled by default.
  - When restoring a configuration that was set using Firmware version 8.0.1-1.1, in which Static LAG is enabled by default.

Specifications for Combination with Channel Blanket

Here are specifications for combination with Channel Blanket:

Note
The following behaviors are not present in other Channel Blanket supporting access points.

- The access point reboots intentionally when Vista Manager EX applies a configuration including Channel Blank profile settings to the access point. The access point reboots in the following conditions:
  - When a configuration including Channel Blanket profile settings is applied to the access point for the first time.
  - When a configuration including Channel Blanket profile settings which works only on access point profile settings is applied to the access point.
  - When a configuration to remove the Channel Blanket profile settings which works with Channel Blanket profile settings is applied to the access point.
  - The access point issues the following when executing one of the above intended reboots:

    ```
    cwmd[xxx]: CWM: APMgr[xxx]: AP XX:XX:XX:XX:XX:XX reboots for
    applying configuration
    ```

Specifications Changed

Here is a list of specifications changed in Version 8.0.2-1.1:

- The maximum entries in the ARP table was changed from 128 to 2048.
- Messages on Web Interface and popup windows ware changed.
  - The popup message when uploading a Firmware image was changed from “waiting for file uploading..." to "waiting for file to upload..."
  - The message when uploading a Firmware image was changed from "Click ‘Proceed’ below to start the upgrade procedure." to "Click ‘Proceed’ below to start the upgrade process."
  - The popup message when upgrading Firmware was changed from "Click ‘The firmware is upgrading now!" to "Click ‘Upgrading the firmware now!". The message of "If power off, the access point will be broken by failure" was changed to "Powering off now will break the device."
  - The message on the Reboot page was changed

    from

    “To reboot device will cause associated clients are disconnected and communication disruption. It will take a few minutes until communication back up.”

    to

    Rebooting the device will cause associated clients to be disconnected, possibly resulting in disruption to communications. It will take a few minutes until this device is usable again.”

- The message when clicking the “Save and Apply” button without changing configuration was changed from "Configuration is not change." to "No configuration changes detected."
- The popup message when changing the Static IP from Connection Type to DHCP was changed from “Connection Type is changed to dhcp. Please reconnect to this device manually." "Connection Type has changed to DHCP. Please reconnect to this device manually."
- The popup message when changing Connection Type from DHCP to Static IP was changed from "Connection Type is changed to static. Please reconnect to this device manually." to "Connection Type has changed to static. Please reconnect to this device manually."
- The message when Firmware upgrade is failed was changed from "Firmware upgrade has failed. Please make sure you upload correct image." to "Firmware upgrade has failed. Please make sure you uploaded the correct image."
- The popup message during rebooting was changed from "Please wait for this access point rebooting ..." to "Please wait for this access point to reboot ..."
- The message on the Support page was changed from "For customers who are not resident in Japan:" to "For customers who do not reside in Japan." The message of "For customers who are resident in Japan:” was changed to "For customers who reside in Japan:."

Limitations

Here are the limitations for the TQ6000 GEN2 access points version 8.0.2-1.1:

- Changing value of the RTS threshold is not supported.
- Wireless Distribution System (WDS) and MU-MIMO / OFDMA cannot be enabled at the same time.
- When Dynamic VLAN is enabled, SNMP cannot get the value of OID 1.3.6.1.2.1.17.4.3.1.1 (MAC address information).

Limitations for Combination with Channel Blanket

Here are the limitations when using Channel Blanket:

Note
The other firmware including the Channel Blanket function has the same limitations as the TQ6000 GEN2 access points version 8.0.2-1.1.

- Limitations on the access point
  - Enabling Band steer on the access point is not supported.
  - The Change Duplicate AUTH received setting is not supported.
  - Only Duplicate AUTH:ignore is supported.
  - The same radio settings are required on all access points under Channel Blanket.

  - Changing the LAN2 port configuration is not supported.
  - Enabling WDS is not supported.
  - Enabling Dynamic VLAN on Cell VAP is not supported.
  - Enabling AMF Application Proxy is not supported.
- Limitations on enabling Blanket Radio Interface
  - Changing the RTS setting is not supported.
  - Enabling Airtime Fairness is not supported.
  - Changing the MU-MIMO setting is not supported.
  - Changing the OFDMA setting is not supported.
- Limitations on Enabling Channel Blanket VAP
  - Changing Broadcast Key Refresh Rate is not supported.
  - Changing Session Key Refresh Rate is not supported.
  - Changing the Session Key Refresh Action setting is not supported.
  - Enabling RADIUS Accounting is not supported.
  - Pre-authentication is forced to be disabled.
  - Dynamic VLAN is forced to be disabled.
  - The Session-Timeout RADIUS attribute is forced to be disabled.
  - Changing Inactivity Timer is not supported.
  - IEEE802.11w (MFP) should be disabled.
- Limitations on the Channel Blanket settings
  - Setting Management VLAN ID and Control VLAN ID is not supported.
  - Setting VAP VLAN ID and Control VLAN ID is not supported.
- Limitations on Channel Blanket behavior
  - Communications of wireless clients are affected when the access point is turned off or rebooted.
  - It takes approximately 2 minutes to restore the communications of wireless terminals connected to the access point that is powered off.

Known Issues

Here are the known issues for the TQ6000 GEN2 access points version 8.0.2-1.1:

- The Radar Detecting Channel List is cleared when a radio setting is changed.
- A LAN port takes approximately 30 seconds to start communications after it links up.
- When the access point is powered with the AC adapter, a LAN port might take one minute to link up after the cable is connected or disconnected.
- The wireless client’s static IP is not supported when Proxy ARP is enabled on a VAP.

- The access point transmits the following illegal frames to other Eth ports when Cascade connection is enabled:
  - the same Source MAC addresses and Destination MAC address
  - the value of the broadcast address as the source MAC address
- On the Legacy Rates on the Advanced Settings page for Radios, you must deselect rates lower than the selected minimum basic rate.
  - The basic rate for Radio 1 can be 1, 2, 5.5, or 11.
  - The basic rate for Radio 2 can be 6, 12, or 24.
- On the Neighbor AP page in Monitoring, the security shows WEP even when it is OSEN. OSEN is a security option, which can be used when Passpoint is enabled.
- Even when only the primary RADUIS server is specified, a following log can be issued: “RADIUS No response from Authentication server IP ADDRESS:PORT - failover.”
- When a wireless client in the power saving mode does not respond to the access point, the wireless client will be disconnected before the inactivity timer expires.
- The Ethernet port is disconnected for 3 seconds when Vista Manager EX applies a configuration to the access point.
- The access point occasionally fails to be managed by Vista Manager EX after booting up.
- The access point does not send bacons on Radio2 even after LAN2 is enabled when Radio2 is enabled and Radio2 channel setting is “auto.” To resolve this issue, reboot the access point manually.

The following issues applies only to the TQ6702 GEN2 and TQ6602 GEN2 access points :

- [AWC-CB] IEEE802.11r roaming fails on Channel Blanket VAP when wireless clients roam in the Channel Blanket Group, which has a different Channel Blanket Control VLAN.
- [AWC-CB] The access point might report to Vista Manager EX less than the actual number of associated wireless clients.

Contacting Allied Telesis

For more information, go to **www.alliedtelesis.com**.