

New Firmware for RAC & ESTIA Wireless Adapters

TOSHIBA confirm new firmware update. The new firmware update is required to solve fast roaming mode issue. This issue affects RAS & ESTIA wireless adapters which are unable to connect to the internet

The wireless adapter and original Wi-Fi chip driver can neither support fast roaming mode nor mesh technology under IEEE802.11r, resulting in the Wi-Fi chip driver's association packet message error between routers and wireless adapter, which effects unsuccessful pairing and "AC Provisioning failed" notice

This Bulletin describes the latest firmware which has been developed to support fast roaming mode for RAS and ESTIA wireless adapters by integrating the new WLAN library patch

With this solution, the connectivity issue between the IEEE 802.11r protocol and the Wireless adapter can be resolved. Toshiba (TCTC) will implement this new firmware into next batch of production

Meanwhile end-users, using previous adapters, will be able to update with new firmware by next OTA update. This OTA update will be available week commencing 21st March 2022

1. Model Codes

Wireless adapter model	Current firmware version	New firmware version	Production release	OTA Update release
TYPE A: RB-N101S-G, RB-N102S-G RB-N103S-G, RB-N104S-G	3.3.01	3.4.00	Discontinued model	Yes
TYPE B: RB-N105S-G, RB-N106S-G	1.8.01	1.9.00	Yes	Yes
Built-in adapter	1.8.01	1.9.00	Yes	Yes
TYPE C: ESTIA Wireless Adapter	1.5.00	1.6.00	Yes	Yes

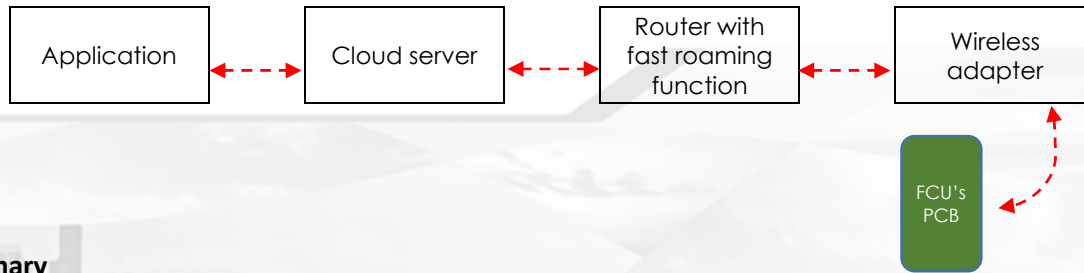
2. Production Date

March 2022 TCTC

3. Specification

Compatible to operate AC with fast roaming mode or mesh technology under IEEE802.11r

4. Test Environment



5. Test Summary

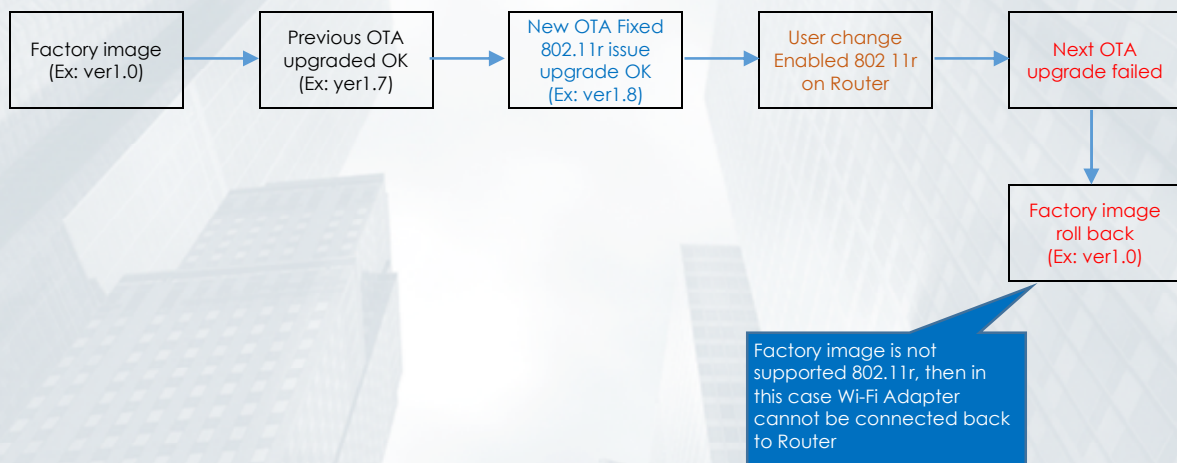
No.	Detail	Note	Result
1	New firmware of Fast Roaming mode (Wireless Adapter type A : version 3.4.00) for RAC test debugging	New firmware version: 3.4.00 of Wireless Adapter type A can operate for Wi-Fi Fast Roaming mode is correctly.	OK
2	New firmware of Fast Roaming mode (Wireless Adapter type B : version 1.9.00) for RAC test debugging	New firmware version: 1.9.00 of Wireless Adapter type B can operate for Wi-Fi Fast Roaming mode is correctly.	OK
3	New firmware of Fast Roaming mode (Built-in adapter version 1.9.00) for RAC test debugging	New firmware version: 1.9.00 of Built-in adapter can operate for Wi-Fi Fast Roaming mode is correctly.	OK
4	New firmware of Fast Roaming mode (Wireless Adapter type C: version 1.6.00) for A2W ESTIA test debugging	New firmware version: 1.6.00 of Wireless Adapter type C can operate for Wi-Fi Fast Roaming mode is correctly.	OK

6. Conclusion

After testing and debugging confirmation on this new firmware, the new firmware can support fast roaming mode and mesh technology under IEEE802.11r for RAC and A2W ESTIA. TCTC are confident that, this new firmware can be operated correctly

SCENARIO: Problem if OTA update failed

- Wi-Fi Adapter firmware will revert back to Factory default firmware image when OTA update is failed by end user (from internet issue or power loss during OTA upgrade)
- Factory default firmware image is not supported for 802.11r fast roaming
- Below scenario will cause Wi-Fi Adapter cannot connected back to the Wi-Fi Router after OTA upgrade failed



For further information please contact our customer support team on **0870 843 0333**, your local representative, your supplier of **TOSHIBA** products or email any enquiries to: - general.enquiries@toshiba-ac.com