

Device Tested: Zebra QL220+ Printer



Model Tested: Zebra QL 220+ printer with QCC of Q2D-LUGA0000-00.

Operating System: proprietary

Wireless Card: DPAC 802.11g wireless card

Client Utility Tested: Label Vista

The QL 220 Plus printer is ideal for many applications, including price marking, shelf labeling, inter-store transfers, direct store vendor delivery and verification, and for mobile point of sale at boutique stores where space is at a premium. The printers tested for this interoperability note have either 802.11b or 802.11bg radios installed. Wireless radios are an option for this printer.

This Interoperability Note describes the scope of the tests that have been conducted for interoperability purposes and describes several test cases that were performed in the Interop Lab at Meru Networks.

Test Environment:

The testing for the Interoperability of the Zebra QL 220 plus printer was conducted in Meru's interoperability lab Wi-Fi Network environment. The following APs and Controllers were used for interoperability testing

2 – AP320s

2 – AP1010i

1 – MC1500

System Director: 4.0-MR2 and 4.1

Virtual Port enabled

Configuration:

The Zebra printer was configured using the Label Vista software via a USB connection.

The preamble length must be configured properly between the printer and AP.

The printer was tested with no encryption, WPA-TKIP, and WPA2PSK. Test print jobs were sent from the laptop computer running Label Vista.

The Meru controllers and APs were configured for Virtual Cell/Virtual Port operation.

Test methodology:

Once printers were associated to the network and acquired an IP address, ping tests were performed and test print jobs were sent to the printer from the Label Vista software.

Test Cases:

Two test cases were executed to test the interoperability functionality of the Zebra QL 200 Plus printer:

Test 1: Stationary client - authentication/association followed by test print jobs and periodic PING tests.

This test was performed using the following security profiles: clear, WPA-PSK, and WPA2-PSK.

Results: The stationary Zebra QL 220 Plus printer was able to authenticate, associate and print with no difficulty for all security profiles.

Test 2: Roaming client - authentication/association followed by test print jobs and periodic PING tests.

This test was performed using the following security profiles: clear, WPA-PSK, and WPA2-PSK.

Results: The roaming Zebra QL 220 Plus printer was able to authenticate, associate and print with no difficulty for all security profiles.

Conclusion:

The Zebra QL 220 Plus printer has been successfully tested for interoperability in Meru Networks Infrastructure under certain assumptions. With these assumptions and corresponding test setup, the performance of the device has been found to be acceptable. Any other combination outside the forementioned settings were not tested and cannot be guaranteed by Meru Interop team.

Caveat:

Due to a roaming issue with the Zebra printer, an access point boot script for the AP300 must be installed onto the controller to enable the printer to roam properly. Contact Meru TAC for further assistance on acquiring and installing the boot script.

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