



QL Plus and RW Summary of Firmware Changes

This document summarizes the following QL Plus and RW firmware releases:

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11p10

Release Date: 7 May 2008

This firmware release includes all features of previous base version [10z](#) (see [page 2](#)), except for the EPL and APL-I emulations. Customers who need these features should **not** use this version of the firmware.

It is for use with the following printer models:

- QL 420 Plus (Q4C-XXXXXXXX-XX)
- QL 320 Plus (Q3C-XXXXXXXX-XX)
- QL 220 Plus (Q2C-XXXXXXXX-XX)
- RW 420 (R4A-XXXXXXXX-XX)
- RW 220 (R2A-XXXXXXXX-XX)



Note • This firmware does **not** run on the older QL (H8 based) series printers (QXA-XXXXXXXX-XX or QXB-XXXXXXXX-XX).

Changes

- Bluetooth 2.0: Improved BT throughput on the RW by removing credit limits.
- Added support for the Secure File Transfer Protocol (SFTP) for use with mirror, see below for instructions.
- Added support to shutdown active Bluetooth connection when “device.reset” command is issued.
- Added Event and roam logging
- Netmanage: Added AMC 4.4 support

- Netmanage: Made changes to apply network profile function
- Update to handle 2048 byte keys and to check for duplicate EAP identifier numbers

Instructions for using Secure FTP with mirror:

To use SFTP during mirror, use the SGD command `ip.mirror.mode` and set the parameter value to `sftp`.



Note • The parameter value can be either `ftp` or `sftp`, with the default being `ftp`.

Issues Corrected

- ZPL: fixed ID Matrix barcode.
- Fixed line printing for receipts exceeding 161 inches
- Enhanced signal strength, roaming support, and power save responsiveness for the Zebra value 802.11g radio.

Additional information regarding the improvements to the Zebra 802.11g radio:

This software release improves the internal signal strength reporting for the Zebra 802.11g radio. These enhancements improve the printer's operation in areas with weak signals. As a result of these changes the printer should roam less frequently.

Additionally, changes to the radio's power-save algorithm have been made which will also result in improved performance. Note that the power-save behavior is affected by settings on both the access point and the printer. In particular, it should be noted that access point settings have a direct relationship on wireless device sleep periods.

10z

Release Date: 3 October 2007

This firmware release includes all features of previous base version [10m](#) (see page 3). It is for use with the following printer models:

- QL 420 Plus (Q4C-XXXXXXXX-XX)
- QL 320 Plus (Q3C-XXXXXXXX-XX)
- QL 220 Plus (Q2C-XXXXXXXX-XX)
- RW 420 (R4A-XXXXXXXX-XX)
- RW 220 (R2A-XXXXXXXX-XX)



Note • This firmware does **not** run on the older QL (H8 based) series printers (QXA-XXXXXXXX-XX or QXB-XXXXXXXX-XX).

Changes

- Added ability to download applications via Bluetooth.
- On the LCD, the arrow icon now blinks for data transmission instead of the light icon
- Update for determining TLV PEAP package in tunnel
- Added roam logging for G radio

Issues Corrected

- (WPA2): Fixed issue with connecting to Cisco WLAN Controller Network

10m

Release Date: 02 July 2007

This firmware release includes all features of previous base version *10g* (see page 4). It is for use with the following printer models:

- QL 420 Plus (Q4C-XXXXXXXX-XX)
- QL 320 Plus (Q3C-XXXXXXXX-XX)
- QL 220 Plus (Q2C-XXXXXXXX-XX)
- RW 420 (R4A-XXXXXXXX-XX)
- RW 220 (R2A-XXXXXXXX-XX)



Note • This firmware does **not** run on the older QL (H8 based) series printers (QXA-XXXXXXXX-XX or QXB-XXXXXXXX-XX).

Changes

- Added Support for IPL
- Made required changes for the new IrDA chip
- Added ability to return the Magnetic Card Reader data of previous swipe
- (Avalanche): Increased the number of available properties to 128
- (ZPL emulation):
 - ^HH command uploads ZPL config settings
 - Added SGD ZPL commands:
 - zpl.calibrate – calibrates printer (same as ^JC)
 - zpl.save – saves ZPL settings
 - ZPL two-key changes:
 - Remove actual Label Length
 - Added Print Width

Issues Corrected

- Fixed font numbering issue which was causing font 2 to not print.

10g

Release Date: 23 April 2007

This firmware release includes all features of previous base version [04u17-5](#) (see page 5). It is for use with the following printer models:

- QL 420 Plus (Q4C-XXXXXXXX-XX)
- QL 320 Plus (Q3C-XXXXXXXX-XX)
- QL 220 Plus (Q2C-XXXXXXXX-XX)
- RW 420 (R4A-XXXXXXXX-XX)
- RW 220 (R2A-XXXXXXXX-XX)



Note • This firmware does **not** run on the older QL (H8 based) series printers (QXA-XXXXXXXX-XX or QXB-XXXXXXXX-XX).

Changes

- (EAP-TLS): Added logic to prevent repeated PAP challenge responses
- (EAP-TLS): Update to work with SBR server. The SBR was suggesting TTLS for inner authentication; this is now NAK'd. The update will now NAK all inner requests besides MSCHAPv2.
- Version 4.07 -- Added VERBOSE option to Magnetic Card Reader (MCR)
- POP3 enhancements to handle out-of-paper and HTML text-encoding (don't print it)
- (WPA): Symbol radio now uses 16-bit writes when writing the MIC
- Added support for turning on the option for sending an IP packet when roaming
- Changed TCP socket behavior so a duplication connection does not immediately disconnect the previous connection. It will only happen after 30 seconds
- WPA2 Broadcast key rotation for both AES and TKIP
- (MCR): Version 4.08 -- Added setvar "mcr.out". This setvar command will be used to send MCR data from the printer to a particular destination either by TCP, SRF, or SERIAL
- Changed the interrupt priority of the Bluetooth port
- (ZPL): UPC/EAN barcodes: initialized mode to 1 in parse function so interpretive field prints correctly -- first character outside of barcode
- (IRDA): New chip replacing an obsoleted chip on the IrDA module board, required software changes
- (NetManage): Support saving GUID into non volatile memory
- (WPA): Added support for wlan.wpa.wpa_version, wlan.wpa.groupkey_ciphersuite, and wlan.wpa.pairwise_ciphersuite

Issues Corrected

- (ZPL): recalling formats from flash containing barcode fields -- no data was being included in barcode

04u17-5

Release Date: 24 January 2007

This firmware release includes all features of previous base version [04u17-3](#) (see page 6). It is for use with the following printer models:

- QL 420 Plus (Q4C-XXXXXXXX-XX)
- QL 320 Plus (Q3C-XXXXXXXX-XX)
- QL 220 Plus (Q2C-XXXXXXXX-XX)
- RW 420 (R4A-XXXXXXXX-XX)
- RW 220 (R2A-XXXXXXXX-XX)



Note • This firmware does **not** run on the older QL (H8 based) series printers (QXA-XXXXXXXX-XX or QXB-XXXXXXXX-XX).

Changes

- (Avalanche): Changes made to _devprop.prf file e.const part of each property starts on the new line.
- (WPA): EAPOL START is sent if AP does not start EAP handshake within 5 seconds after association

Issues Corrected

- (Avalanche): Fixed buffer overflow that prevented unit from resetting
- (Avalanche): Corrected UDP malformed packets.

04u17-3

Release Date: 12 December 2006

This firmware release includes all features of previous base version [04u17](#) (see page 6). It is for use with the following printer models:

- QL 420 Plus (Q4C-XXXXXXXX-XX)
- QL 320 Plus (Q3C-XXXXXXXX-XX)
- QL 220 Plus (Q2C-XXXXXXXX-XX)
- RW 420 (R4A-XXXXXXXX-XX)
- RW 220 (R2A-XXXXXXXX-XX)



Note • This firmware does **not** run on the older QL (H8 based) series printers (QXA-XXXXXXXX-XX or QXB-XXXXXXXX-XX).

Changes

- 80211g radio: Added user configurable parameter for roam signal and interval

Issues Corrected

- n/a

04u17

Release Date: 3 November 2006

This firmware release is for use with the following printer models:

- QL 420 Plus (Q4C-XXXXXXXX-XX)
- QL 320 Plus (Q3C-XXXXXXXX-XX)
- QL 220 Plus (Q2C-XXXXXXXX-XX)
- RW 420 (R4A-XXXXXXXX-XX)
- RW 220 (R2A-XXXXXXXX-XX)



Note • This firmware does **not** run on the older QL (H8 based) series printers (QXA-XXXXXXXX-XX or QXB-XXXXXXXX-XX).

Changes

- New Symbol Radio Firmware 3.91-80
- Changed wlan.keep_alive.enable default to be OFF
- Improved PowerSave and Roaming with the 80211g radio

Issues Corrected

- n/a