



# QL Plus and RW Summary of Firmware Changes

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

Firmware Release Number	Release Date	See Page
<i>10z</i>	3 October 2007	page 1
<i>10m</i>	02 July 2007	page 2
<i>10g</i>	23 April 2007	page 3
<i>04u17-5</i>	24 January 2007	page 4
<i>04u17-3</i>	12 December 2006	page 4
<i>04u17</i>	3 November 2006	page 5

## 10z

### Release Date: 3 October 2007

This firmware release includes all features of previous base version *10m* (see page 2). 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 that 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 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 that 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 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 that 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 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 that 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 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 that 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 that 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