QL Plus and RW Summary of Firmware Changes

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

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

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
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.
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