



I53.15.x and I50.13.x Summary of Firmware Changes

This document summarizes the following I53.15.x and I50.13.x firmware releases:

Firmware Release Number	Release Date	See Page
I53.15.0B	20 August 2008	page 1
I53.15.0A	03 March 2008	page 2
I53.15.0	14 January 2008	page 2
I50.13.3	01 November 2005	page 5

I53.15.0B

Release Date: 20 August 2008

I50 has been changed to I53. This firmware release includes features of the previous I53.15.0A release. It is for use with the following 203 dpi printer models:

- All S4M (203 dpi) printers
- All ZM400/ZM600 (203 dpi) printers

Issues Corrected and Items Changed

- Direct graphics fields now print when they are the only fields in the label format.

I53.15.0A

Release Date: 03 March 2008

I50 has been changed to I53. This firmware release includes features of the previous I50.13.x releases. It is for use with the following 203 dpi printer models:

- All S4M (203 dpi) printers
- All ZM400/ZM600 (203 dpi) printers

Issues Corrected and Items Changed

- Double quote characters no longer printed when not specified in the format.
- A reversed box now prints at correct size.
- When an error code request command is sent to the printer, the correct error codes now return.

I53.15.0

Release Date: 14 January 2008

I50 has been changed to I53. This firmware release includes features of the previous I50.13.x releases. It is for use with the following 203 dpi printer models:

- All S4M (203 dpi) printers
- All ZM400/ZM600 (203 dpi) printers

Changes

Support added for:

- The Wireless Plus option board for the S4M, ZM400, and ZM600 printers.
- The Cisco™ CB21 802.11b/g card, when used with the Wireless Plus option board.
- New Wireless Securities (see [Table 1 on page 4](#) for the compatibility chart):
 - PEAP
 - EAP-TLS
 - EAP-TTLS
 - EAP-FAST
 - WPA PSK
 - WPA2 PSK
 - WPA PEAP
 - WPA LEAP
 - WPA EAP-TLS
 - WPA EAP-TTLS
 - WPA EAP-FAST
 - Kerberos
 - WPA2 PSK
 - WPA2 PEAP
 - WPA2 LEAP
 - WPA2 EAP-TLS
 - WPA2 EAP-TTLS
 - WPA2 EAP-FAST
- Wireless Set/Get/Do commands, allowing for configuration of wireless settings using Set/Get/Do command strings*.
- The Wireless Plus option board firmware has been updated to version 2.1.1761.
- A network configuration label is now available for wireless plus print server on the S4M and ZM400/ZM600, and also for the internal wired print servers on the ZM400/ZM600.
- Eight simultaneous connections for printing via wireless (raw port).
- Updating the Wireless Plus option board when printer firmware is updated. Users will see a **DOWNLOADING FIRMWARE** message and status message for both the printer and Wireless Plus option board firmware downloads.
- A Wireless Pulse feature, which sends a LSAP packet at a regular interval, has been added*.
- The data LED flashes in response to the receipt of data, not to the receipt of each wireless packet.
- The maximum MTU for the Internal Wired Print servers on the ZM400/ZM600 has been set to 1460.
- S4M now reports its on-line status correctly via the USB port.
- The graphic display on the ZM400/ZM600 printers.
- The Internal Wired Print Server on the ZM400/ZM600 models.

- The User Selectable "Primary Print Server" which allows the user to configure the printer to determine which print server type - wired or wireless - to use as the Active Print Server at power up. Available on the ZM400/ZM600 and for use with the wired and wireless print servers.
- The ability to display the "Active Print Server" on the front panel and network configuration label



Note • IPP, HTTP, FTP, POP3 and SNMP are not supported on the Wireless/Wireless Plus option boards and ZM400/ZM600 Internal Wired Print Server. Raw printing to port 9100 is supported.

* See the latest APL-I manual (available at www.zebra.com) for details on new commands.

Issues Corrected and Items Changed

- Stored formats are retained after cycling power.
- Text centered in the middle of an inversed rectangle is now positioned correctly.
- Variable data will be assigned to the correct fields when some fields in the format are not populated with data.
- Characters in Code Page 850 now print correctly.
- Formats can be recalled and printed without a power cycle.
- The less than symbol (<) and subsequent text now print correctly.
- The top of form adjustment command now works correctly.
- Fields in a format named using the asterisk character now print correctly.
- When all parameters are not specified, user defined fonts now print.

Table 1 • Wireless Plus PrintServer Security Support

Securities Supported	Cisco CB21 (CardBus)	Cisco 350 (PCMCIA)	LA-4121 (PCMCIA)	LA-4137CF (Compact Flash)
Open	Yes	Yes	Yes	Yes
KERBEROS	Not Supported	Not Supported	Yes	Yes
WEP 40-bit & 128-bit	Yes	Yes	Yes	Yes
LEAP	Yes	Yes	Yes	Yes
PEAP	Yes	Not Supported	Yes	Yes
EAP- FAST	Yes	Not Supported	Yes	Yes
EAP-TLS	Yes	Not Supported	Yes	Yes
EAP-TTLS	Yes	Not Supported	Yes	Yes
WPA PSK	Yes	Yes	Yes	Yes
WPA LEAP	Yes	Yes	Yes	Yes
WPA PEAP	Yes	Yes	Yes	Yes

Table 1 • Wireless Plus PrintServer Security Support (Continued)

Securities Supported	Cisco CB21 (CardBus)	Cisco 350 (PCMCIA)	LA-4121 (PCMCIA)	LA-4137CF (Compact Flash)
WPA EAP- FAST	Yes	Yes	Yes	Yes
WPA EAP-TLS	Yes	Yes	Not Supported	Yes
WPA EAP-TTLS	Yes	Yes	Not Supported	Yes
WPA2 PSK	Yes	Not Supported	Not Supported	Not Supported
WPA2 LEAP	Yes	Not Supported	Not Supported	Not Supported
WPA2 PEAP	Yes	Not Supported	Not Supported	Not Supported
WPA2 EAP- FAST	Yes	Not Supported	Not Supported	Not Supported
WPA2 EAP-TLS	Yes	Not Supported	Not Supported	Not Supported
WPA2 EAP-TTLS	Yes	Not Supported	Not Supported	Not Supported

Wireless Notes

The following items are issues Zebra has noted during testing with various wireless networking products:

- Conflicts can exist between the Symbol LA-4137CF and some Cisco Access Points. This is characterized by the RF card reaching the Maximum Retry timeout.
- Conflicts can exist between the 802.11B Symbol LA-4137CF and 802.11G support on some Access Points. One potential work-around is to disable G support on the Access Point.
- It is recommended to set WPA Handshaking to 1000ms on Cisco access points.
- It is recommended to disable the Aironet Extensions.
- It is recommended to use Cisco Access Point firmware 12.3(8)JAE1 or later.

I50.13.3

Release Date: 01 November 2005

This APL-D firmware release is for use with the following 203 dpi printer models:

- S4M

New Features

- Implementation enables supported printers to accept IPL code only. The printer will no longer respond to ZPL.
- Most functions of the Intermec 3400D[®] printers are fully supported, and available documentation specifies which commands are supported.

- This firmware is intended to allow a supported Zebra printer to function as a drop-in replacement for a Intermec 3400D printer. If formats printed with Zebra printers are not acceptable, contact apl@zebra.com for possible firmware enhancements.
- This version offers limited support for printing to Zebra Wired Print Servers. It does not support Wireless printing.

For support, please visit www.zebra.com/support or reference the contact options below

Geographic Location	Telephone	Toll-free	FAX
The Americas	+1-847-793-5585	+1-866-515-2485	—
Asia Pacific	+65-6858-0722	—	+65 6885 0838
Europe, Africa, Middle East, India	Please contact your supplier.		