



Printer Firmware Release Notes

Version 12.1

For Honeywell bar code label printers

Overview

Firmware version x10 provides printing and other functions for Honeywell third-generation printers.

This document contains the complete change history for this printer firmware, with the most recent version listed at the top.

Please refer to the online help or the printer user manual for additional information on the features and use of the printer firmware and your printers.

Version 12.1

Version 12.1 was released in March 2017.

Supported Printers and Version Numbers

Here is a table of the specific printers and languages each supports. Note that Fingerprint/Direct Protocol, ZSim and ESim are all supported by all applicable printers and their language version is the same as the firmware.

Family	Model Names	Firmware	FP	DP	IPL	ESim	DSim	ZSim
PC Series Desktop	PC43t, PC43d, PC23d	K10.12.013309	Y	Y	Y	Y	Y	Y
PD Series Light Industrial	PD43, PD43c	K10.12.013309	Y	Y	Y	Y	Y	Y
PM Series value industrial	PM42	L10.12.013309	Y	Y	Y	Y	Y	Y
PC Series value desktop	PC42t	T10.12.013309		Y		Y		Y

Language versions:

IPL - 1.001278

DSim - 6.001278

New Functionality

There is no new functionality beyond v12 in this firmware.

Fixed Defects

Firmware v12.1 contains security fixes.

Version 12

Version 12 was released in January 2017.

Supported Printers and Version Numbers

Here is a table of the specific printers and languages each supports. Note that Fingerprint/Direct Protocol, ZSim and ESim are all supported by all applicable printers and their language version is the same as the firmware.

Family	Model Names	Firmware	FP	DP	IPL	ESim	DSim	ZSim
PC Series Desktop	PC43t, PC43d, PC23d	K10.12.013036	Y	Y	Y	Y	Y	Y
PD Series Light Industrial	PD43, PD43c	K10.12.013036	Y	Y	Y	Y	Y	Y
PM Series value industrial	PM42	L10.12.013036	Y	Y	Y	Y	Y	Y
PC Series value desktop	PC42t	T10.12.013036		Y		Y		Y

Language versions:

IPL - 1.001278

DSim - 6.001278

New Functionality

ESim2

ESim2 is a new emulator for the EPL-II printer command language. Based on the version of ESim originally provided in the Intermecc PD41/42 printers, it contains fonts nearly dot-identical to those found on native EPL printers and a rich command set. For details on command implementation, see the *ESim Command Reference* available for download from our web site.

ESim2 works with our Language Autosense framework, first introduced in v11 firmware in December 2016. If the printer's command language is set to "Autosense," data streams in ZPL, Direct Protocol (DP) or EPL will automatically be parsed and the appropriate labels printed.

Naming notes:

- ESim2 refers to this new version in these notes. However, in the printer menus it is still referred to as ESim since configuration systems may require that.
- ESim1 is the version of ESim in earlier versions of PC23/43 and PD43 printers.
- ESim Classic is the version of ESim in the PF8, PD41 and PD42 printers.

You may also choose "ESim" as the command language and the new ESim2 will be used.

Due to differences in implementations of ESim in the PF8 desktop printer and the PD41/42 and native EPL-II printers, we have implemented two "modes," "Standard" (the default) and "ESim Legacy Mode" in ESim2 to mimic PF8/PD4x behavior for some commands. The *Command Reference* details these differences. Enable Legacy Mode from the printer Configuration menu, if desired. We strongly recommend trying the default Standard mode first as it should work for almost all circumstances.

With the exception of the above legacy mode behaviors, our goal is for ESim2 to be as close to EPL-II as possible. Therefore, again with the legacy exceptions, where there is a difference in behavior between

ESim1 and EPL-II we have deliberately chosen to mimic EPL-II behavior. As a result, some label formats may look different when printed in ESim2 compared with ESim1.

ESim1 used a configuration file and IGNCMDS.CFG file for configuration commands and commands to be ignored. All of these have been moved into the configuration menu structure accessible from the printer LCD, web page and PrintSet. On first restart after upgrading to v12 firmware, the previous configuration file content and ignore commands will be migrated to the configuration system.

Font aliases may continue to be used from the ESIMFNT.ALS file, but there is a simpler XML file based method you may now use. If the same alias is found in both ESIMFNT.ALS and XML file-based aliasing, the XML alias will be used.

Find implementation details for this list of supported commands in the *ESim Command Reference*:

Command	Explanation
?	Download variables
^@	Reset printer
^A	Enter pause printing mode
^B	Break batch printing
^C	Continue printing
^D	Remaining labels
^default	Restore factory default settings
^ee	Immediate error report
A	Print text
a	Print Text (True Type font)
AUTOFR	Automatic Form Printing Form

Command	Explanation
B	1D Symbology Support: <ul style="list-style-type: none"> • Codabar • Code 128 auto A, B, C modes • Code 128 mode A • Code 128 mode B • Code 128 mode C • Code 128 UCC Serial Shipping Container Code • Code 39 std. or extended • Code 39 with check digit • Code 93 • EAN13 • EAN13 2 digit add-on • EAN13 5 digit add-on • EAN8 • EAN8 2 digit add-on • EAN8 5 digit add-on • Interleaved 2 of 5 • Interleaved 2 of 5 with human readable check digit • Interleaved 2 of 5 with mod 10 check digit • MSI-3 with mod. 10 check digit • Planet 11 & 13 digit • Plessey (MSI-1) with mod. 10 check digit • Postnet 5, 9, 11 & 13 digit • RSS-14 Bar Code Image • UCC/EAN 128 • UPC A • UPC A 2 digit add-on • UPC A 5 digit add-on • UPC E • UPC E 2 digit add-on • UPC E 5 digit add-on • UPC Interleaved 2 of 5
b	2D Symbology Support: <ul style="list-style-type: none"> • Aztec Image • Data Matrix Image • EAN/UCC Composite Code • MaxiCode Image • PDF417 Image • QR Code Image
C	Counter
C	Cut immediate
D	Density
EI	List soft fonts
EK	Delete soft font
eR	User-defined error/status character control
ES	Store soft font
f	Cut Position
fB	Adjust Backup Position Writes
FE	End form store
FI	Print form information
FK	Delete form
FR	Retrieve form
FS	Form store
GG	Print graphics

Command	Explanation
GI	Print graphics information
GK	Delete graphics
GM	Store graphics in memory – note this works for all graphics file formats supported by our printers, not just those supported by EPL-II.
GRP	Reply graphics from print buffer
GW	Store graphics in image buffer
i	Asian character spacing
I	Character set selection
j	Media feed adjustment
JB	Disable top of form backup
JF	Enable top of form backup
LE	Line draw exclusive
LO	Line draw black
LS	Line draw diagonal
LW	Line draw white
N	Clear image buffer
o	Cancel Software Options Writes
O	Option select
oR	Character substitution
P	Print
PA	Print automatic
PF	Feed media*
Q	Set form length
q	Set label width
R	Set reference point
r	Set relative reference point
S	Speed select
SA	Setup adjust
SPC	Setup print copy
TD	Define Date Format
TS	Set real time clock
TT	Define time format
U	Print configuration
UA	Clear label counter mode
UB	Enable label counter mode
UC	Command reply accept character control
UE	Soft fonts information inquiry
UF	Form information inquiry
UG	Graphics information inquiry
UI	Enables prompts and code page inquiry
UM	Code page and memory inquiry
UN	Disable error reporting
UP	Code page and memory inquiry printing
UQ	Reply test label data back to host
US	Enable error reporting
UT	Enable Alternate Error Reporting Stored
UV	Product identity and Asian font types
V	Define variable
X	Draw box
xa	Autosense (media calibration)
Y	Serial port setup
Z	Print direction

- * If the PF command is encountered by itself (i.e.: typed directly from a command line in a terminal emulation program), it will be interpreted by the Language Autosense framework as the Direct Protocol command PRINTFEED and not the EPL command Feed Media.

Changed Functionality

ESim/ZSim Language Option Removed

We have removed the ESim/ZSim language option from our Command Languages menu. This option evaluated the first data stream after next startup after choosing this language, and set the printer to ESim if EPL was detected or ZPL if not. It did not provide any facility to dynamically detect and parse different languages so its functionality was limited. With ESim2 now part of Language Autosense this language option is no longer necessary.

Fixed Defects

None. Version 12 firmware follows closely on version 11 and contains no additional fixed features.

Version 11

Version 11 was released in December 2016.

Supported Printers and Version Numbers

Here is a table of the specific printers and languages each supports. Note that Fingerprint/Direct Protocol and ZSim are both supported by all printers and their language version is the same as the firmware.

Family	Model Names	Firmware	FP	DP	IPL	ESim	DSim	ZSim
PM Series mid-range Industrial	PM43, PM43c, PM23c	P10.11. 012939	Y	Y	Y	N	Y	Y

Language versions:

IPL - 1.001278

ESim - 1.001278

DSim - 6.001278

New Functionality

Language Autosense

Language Autosense, introduced in this firmware version, automatically detects the printing command language sent to the printer. This eliminates the need to select a specific command language during configuration, simplifying printer deployment.

In version 11, Direct Protocol and ZPL data streams will be auto-detected.

In all printers manufactured starting with v11 firmware the default command language choice is “Autodetect.” If your application requires other command languages, continue to select the required language from Settings / General / Command Language in the configuration menu. Here is a table showing the correct printer command language choice based on your printing needs:

If your application uses this command language...	... Choose this language in printer configuration:
Direct Protocol	Autosense*
ZPL	Autosense*
IPL	IPL
DPL	DSim
EPL	ESim (for printers supporting ESIm)
Fingerprint (or Fingerprint application)	Fingerprint
C# for Printers application	Smart Printing

* You may also choose the specific language in Configuration instead of Autosense.

Note: Fingerprint applications are *not* supported in Language Autosense. If you are running Fingerprint applications, choose Fingerprint as your command language.

Creating the ability to automatically detect the command language made changes to printer behavior necessary. Here is a summary of changed behaviors; see sections below for details

- Label rest point and start-of-print adjustments are now automatically determined
- We have added new configuration changes to fine-tune rest point and start of print behavior
- Terminal emulation application (i.e.: HyperTerminal, PuTTY) support has changed
- Many language-specific settings are now general to the printer and their names have changed

Printer Configuration Changes

Where command languages and emulators in prior firmware had their own standards for label positioning and other configuration items, now most configuration settings are standardized for the printer as a whole. For most users, no media movement adjustments will be necessary for any printing condition.

This table describes the old and new settings and behaviors:

Setting	New Behavior / Change
System → Settings → General → Command Languages defaulted to <i>Fingerprint</i>	Now defaults to <i>Autosense</i> for printers loaded with this or later firmware during manufacturing. For printers manufactured prior to this firmware release: <ul style="list-style-type: none"> • upgrading retains the currently-selected command language • restoring defaults reverts to the factory-set default command language
Printing → Media → Start Adjust had various defaults depending on command language	Setting removed; printer automatically retracts from rest position to leading edge at start of print. If setting found in printing script, Label Top Adjust automatically adjusted.
Printing → Media → Stop Adjust had various defaults depending on command language	Setting removed; printer automatically positions media at rest position appropriate to media type and installed accessories. If setting found in printing script, Label Rest Adjust automatically adjusted.
Printing → Media → Label Rest Adjust	New setting. Use to fine-tune rest point of media after printing. Defaults to 0.
Printing → Media → Label Top Adjust	New setting. Use to fine-tune where printing starts at beginning of printing. Defaults to 0.
Printing → Media → Print Mode	New setting. Use to automatically adjust rest and top adjust settings based on the type of printing. Values: Tear Off (default), Peel Off, Rewind, Cutter.
Languages → ZSim → Label Top Adjust	Setting removed. Use Printing → Media → Label Top Adjust instead.
Languages → ZSim → Label Rest Adjust	Setting removed. Use Printing → Media → Label Rest Adjust instead.
Languages → ZSim → Print Mode	Setting removed. Use Printing → Media → Print Mode instead

Terminal Emulation Applications and Language Autosense

Due to the way that the Language Autosense feature works, when Autosense is the chosen command language we strongly recommend against using terminal emulation programs that send each character as typed to the printer. HyperTerminal is one such application.

Instead, use a terminal emulation program that sends data a line at a time (i.e.: by pressing **Enter** in the terminal window or by pressing a Send button). This will ensure that the Autosense parser will process an commands correctly.

IPL: New Commands and Improvements

<VT> Status Dump is now supported.

ZSim: New Commands and Improvements

~HQ command is now supported.

^HV command is now supported.

^FA command no longer causes overlapping text under certain conditions.

~NC, ~NR, ~NT, ^NI commands for RS485 connections are now supported.

ZSim2 can now reprint the last label using the ~PR and &JJ commands.

^TO command for printing stored layouts is now supported.

Direct Protocol: New Bar Code: Han Xin

We have added Han Xin to the list of bar code symbologies supported by Direct Protocol. Here is an example of this bar code:



Here are the affected commands:

BARTYPE <sexp>

<sexp> value of HANXINCODE

BARSET parameters used:

<sexp>	Barcode Type	HANXINCODE
<nexp3>	Version number	1-30, default = 2
<nexp5>	Error correction	1-4, default=2 1: 8% of characters can be wrong, but code can still be read; 2: 15% 3: 23% 4: 30%
<nexp6>	Dot element magnification factor	1-30, default = 2

<nexp7>	Mask pattern selection	0-3, default = 0 0: Disabled 1, 2, 3: different masking pattern styles
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BARMAG <nexp>

<nexp>	Magnification factor	1-30, default = 2
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BARHEIGHT – not applicable

BARRATIO – not applicable

Support for Printer MIB in SNMP

We have implemented the industry-standard *Printer* Management Information Base (MIB) in our Simple Network Management Protocol (SNMP) implementation.

For details, ask your Solution Architect or Technical Support.

Support for individualized label counters

We have added a new configuration option to enable counting labels into up to 49 individual counter locations within the printer. These locations are stored in specific SNMP OIDs.

The configuration option is at Printing → Media → Label Counter

For details, ask your Solution Architect or Technical Support.

Cancel All Functions in Batch Printing

When printing multiple print jobs in succession, a new “Cancel All” feature allows every print job in the printer’s internal queue to be cancelled at once.

NOTE: While all print jobs stored in the printer’s internal queue will be cancelled, it is possible that other jobs may still be queued by the host. These jobs of course cannot be cancelled with the “Cancel All” function. In extremely high production environments you may have to use “Cancel All” more than once to completely clear out all remaining print jobs.

Improved Features

Autosense Now the Top Choice in Command Languages Menu

With introduction of Language Autosense (see above), the top choice in the Settings → General → Command Language menu is now “Autosense.” (Previously, Direct Protocol was the top choice.)

Default Media Calibration Method is Now “Slow”

The default media calibration method has been changed from “fast” to “slow.”

“Slow” mode is a more accurate calibration method especially for media with a low difference in opacity between liner and labels and is frequently chosen as the default for new user implementations. Given its higher precision with little downside it made sense to change the default.

More USB Flash Drive Options for Firmware Upgrades on PM43 Printers

Some older, slower USB flash drives would not work to upgrade PM43-class printers. This issue was not observed for PC- and PD-Series printers.

For printers manufactured with v11 firmware loaded at the factory, most USB drives should now be usable to upgrade firmware.

Note: it is not possible to upgrade printers manufactured prior to v11 with this new capability.

Note: if you are having problems upgrading firmware via USB, try a newer, faster USB drive.

“K” and “P” Firmware Binaries May Co-exist on Same USB Upgrade Drive

For users looking for the most convenient option to configure printers requiring different firmware binaries, a single USB flash drive may now contain firmware images for both PCx3 (“K” firmware designation) and PMx3 (“P” firmware designation) printers in its root folder. This means that a single flash drive can be distributed to partners and/or customers with firmware for both of these printer families, and by simply plugging in the USB drive a printer in either family will automatically upgrade on startup.

Improved Pause Behavior

Printers now attempt to pause printing after the currently-printing label is printed. Previously, printing would only pause after all labels currently formatted finished printing – this meant that serialized jobs may print several labels before pausing.

Web Page Improvements

Maintenance Alerts Pages Show Units for All Settings

Microsoft Edge Browser Display Improvements in Windows 10

IPL Menu Improvements

Printhead Resolution choice no longer displays in IPL / Print Quality menu. This is an internal setting that was not user-changeable or had no effect if changed, so we no longer display it.

Improved Ribbon- and Media-Low Behavior

For printers equipped with ribbons and/or rotating media unwind kits, low-ribbon and low-media sensing has been improved.

“Label Not Taken” Message No Longer Covers Entire UI

The “Label not taken” message that appears when a label has printed no longer covers the entire UI, allowing users to continue to see the batch count.

C# for Printers Improvements

PC Series Printers will now recognize images added to USB flash drives after a C# app has started. This enables users to dynamically add new images to a USB drive while an app is running.

Fixed Defects

Here is a list of defects fixed in this firmware version. The “Key” field shows our internal tracking number – if an item on this list is of interest to you and you need more information please contact your Solution Architect or technical support for details.

Key	Summary
ZSIM2-2722	EWR 19620 - PD43 Icon Zsim only prints graphic on first label
ZSIM2-2736	EWR 19823 - PM43 running Z-Sim2 will not print an image when a counter is on the label
FIJI-3671	EWR 19023 - PM43 IPL PDF-417 flatter than PM4i
PHNX-86	EWR 19304 - Parallel interface and industrial interface work not in combination on PM43
ZSIM2-2740	EWR 19890 - ZSim2 issue with UPS CampusShip
FIJI-3875	EWR 20236 - PM43: IPL Compatibility with PX4i//PM4i
KILI-32	EWR 19106 - PC43t with battery base installed not working
FIJI-3691	EWR 19195 - PM43 IPL Printing characters that should be ignored
ZSIM2-2824	EWR 21658 - PC43T running Z-Sim2 need to print with customer file as Zebra printer does
FIJI-3620	EWR 18861 - Characters Missing in Font
FIJI-4214	EWR 21927 - ESIM - PC42T - DataMatrix is printing out of dimension
PHNX-102	EWR 21726 - PM43/PM42-Unable to detect new labels from FASSON
FIJI-4104	EWR 21552 - PM43 Smartprinting different printing quality than normal printing
ZSIM2-2703	EWR 19127 - PC43 ZSim2 cutter issue
FIJI-4084	EWR 21434: Configured password is lost when going from MR09 to MR11
FIJI-4101	EWR 21340: PM43 doesn't print in direction Dir2 and Dir3 with .otf font
FIJI-4006	EWR 21119 - INT PM43 A: 'Tab' character - in data for Code49 barcode (in Fingerprint format) works fine on Intermec EasyCoder PM4i but causes "Unexpected termination" on PM43.
FIJI-4007	EWR 21084 - missing label after raise and lower print head (PD43)
FIJI-4244	EWR 22177 - Slow response web browser PM43 running fingerprint program
KILI-70	EWR 21189 K2 cutter burn issue at Spain customer Correos

Key	Summary
ZSIM2-2765	EWR 20264 - Font aliasing does not work for Font "S" in ZSIM
FIJI-3753	EWR 19615 - PD43 crash after continuous received 7KB data form USB port
FIJI-3624	EWR 18876 - PC43d ESIM Syntax error reported after Print Command (P) if number of copies is not specified
ZSIM2-2701	EWR 19189 - Zsim2 lost field print issue
ZSIM2-2651	EWR 18857 - PD43-ZSim2-pause/backfeed during print
FIJI-3602	EWR 18578 - PC43d too easy to reset to factory default
FIJI-3834	EWR 20070 - PM43 IPL Start adjust setting reset after a reboot to default -112
PM43LITE-187	EWR 16671 - PM43 calibration issue
FIJI-3689	EWR 19182 - PM43 Net1 interface crash
FIJI-3622	EWR 18868 - Command ^ee in ESIM reports wrong
ZSIM2-2741	EWR 19891 - PC43 Zsim print alignemnt
ZSIM2-2787	EWR 21125 - PD43/PM43: (ZSim) DataMatrix is not printing out
FIJI-3953	EWR 21077 - ZSim2 printing incorrect time on batch labels
ZSIM2-2838	EWR 21797 PM42-ZSim2-Printout different from Zebra ZT10
FIJI-3805	EWR 19984 - PD43c media detection issue on bagtags
ZSIM2-2725	EWR 19681 - Zsim2 not the same as on Zebra printer
FIJI-4175	FIJI-4101: EWR 21340 Solution for PM43 doesn't print in direction Dir2 and Dir3 with .otf font
ZSIM2-2831	EWR 21367 - PM43: (ZSim) Missing Code 128 barcode strips
FIJI-4174	FIJI-4101: EWR 21340 Finding Root Cause for PM43 doesn't print in direction Dir2 and Dir3 with .otf font
ZSIM2-2791	EWR 21126 - PM43/PD43: (ZSim) ~JA command not working as expected
FIJI-4144	EWR 21718 - PD43c network issue
FIJI-4080	EWR 21363: PM43 can't print the QR barcode that contain over 199 characters in IPL and DP mode
FIJI-4021	EWR 21232 - PM43-Scanned data from PD417 different from PM4i
FIJI-3625	EWR 18878 - PM43 IPL crashes with customer's UPS label

Key	Summary
ZSIM2-2822	EWR 21445 - PC23d ZSim2 cannot print ZPL script correctly
FIJI-3611	EWR 18796 - Smart Printing lock up
FIJI-3612	EWR 18814 - PMX SCR#3059 Missing label after media change
ZSIM2-2788	EWR 21108 - PM43 Z-Sim2 printout wrong positioned
FIJI-3868	EWR 20187 - Sensitivity and Darkness do not hold through a reboot
FIJI-3605	EWR 18788 - PM43 MR 9.1 IPL issue with <SI>D
ZSIM2-2854	EWR 21888 - ZSim2 to work with 150 DPI Emulation
ZSIM2-2862	EWR 21999 - Customer's output from ZPL code works fine under firmware v10.08 but doesn't work under any firmware more-recent
ZSIM2-2876	EWR 22349 - (PC42) ZSIM2 issue - additional barcode printed
FIJI-3905	EWR 20331 - PM43 IPL - Profile Load loses Start and stop Adjust settings
FIJI-3813	EWR 20231 - It will pause print when send thousands copies print job
FIJI-3497	EWR 18303 - PC43 IPL label format randomly becomes corrupt
FIJI-3634	EWR 18944 - IPL not retaining stop adjust on PD43 with a Cutter fitted
ZSIM2-2857	EWR 21908 - PM43 - problems with UTF16 in ZSIM2
ZSIM2-2864	EWR 22099 - PM43c failure to print 1st Label from batch and using LTS.
FIJI-4289	EWR 22468 - (PM43) Data on label is shifting during printing.
ZSIM2-2884	EWR 22413 - ZSim Datamatrix GS1 error
FIJI-4188	EWR 21853 - PM43 IPL does not encode PDF417 data correctly
FIJI-4003	EWR 20992 - NET1 Line Terminator setting not working on PM43 with 10.9 and 10.10 firmware
FIJI-4319	EWR 22550 - (PM43) IPL Data printed in wrong field
FIJI-3930	EWR 20902 - PC42T doesn't print correctly the EPL format as replacement of the GC420D
FIJI-4292	EWR 22393 - (PC42t) Not skip 2-3 Labels every time head is opened and closed
FIJI-3730	EWR 19481 - FP - Keys shifted behavior change request

Version 10.2

Version 10.2 was released in September 2016.

Supported Printers and Version Numbers

Here is a table of the specific printers and languages each supports. Note that Fingerprint/Direct Protocol and ZSim are both supported by all printers and their language version is the same as the firmware.

Family	Model Names	Firmware	FP	DP	IPL	ESim	DSim	ZSim
PM Series mid-range Industrial	PM43, PM43c, PM23c	P10.10. 012008	Y	Y	Y		Y	Y
PC Series Desktop	PC43t, PC43d, PC23d	K10.10. 012008	Y	Y	Y	Y	Y	Y
PD Series Light Industrial	PD43, PD43c	K10.10. 012008	Y	Y	Y	Y	Y	Y
PM Series value industrial	PM42	L10.10. 012008	Y	Y	Y		Y	Y
PC Series value desktop	PC42t	T10.10. 012008		Y		Y		Y

Language versions:

IPL - 1.001240

ESim - 1.001230 **For PC42t ONLY, ESIm version is 1.001240**

DSim - 6.001240

New Functionality

Honeywell Branding

Firmware is now branded as Honeywell.

Fixed Defects

Here is a list of defects fixed in this firmware version. The “Key” field shows our internal tracking number – if an item on this list is of interest to you and you need more information please contact your Solution Architect or technical support for details.

Summary	Key
Under certain circumstances the Feed key would stop responding.	FIJI-4154

Version 10.0

Version 10 was released in April 2016.

Supported Printers and Version Numbers

Here is a table of the specific printers and languages each supports. Note that Fingerprint/Direct Protocol and ZSim are both supported by all printers and their language version is the same as the firmware.

Family	Model Names	Firmware	FP	DP	IPL	ESim	DSim	ZSim
PM Series mid-range Industrial	PM43, PM43c, PM23c	P10.10.011406	Y	Y	Y		Y	Y
PC Series Desktop	PC43t, PC43d, PC23d	K10.10.011406	Y	Y	Y	Y	Y	Y
PD Series Light Industrial	PD43, PD43c	K10.10.011406	Y	Y	Y	Y	Y	Y
PM Series value industrial	PM42	L10.10.011406	Y	Y	Y		Y	Y
PC Series value desktop	PC42t	T10.10.011498		Y		Y		Y

Language versions:

IPL - 1.001230

ESim - 1.001230

For PC42t ONLY, ESIm version is 1.001240

DSim - 6.001230

New Functionality

ZSim2 – Zebra Programming Language (ZPLII) Emulator Updates

Twenty five (25) new commands have been added to ZSim for v10 firmware, and many existing commands have been improved. See the ZSim Command Reference for specific implementation details.

New commands are:

Command	Description
^AC	Font C
^B0, ^BO	Planet bar code symbol
^B5	Planet bar code symbol
^BR	GS1 Databar symbol
^BS	UPC/EAN bar code extensions
^BZ	POSTAL bar code symbol
^CM	Change memory letter designation
^CN	Cut now
~EG	Erase downloaded graphics
^FL	Font linking
^HF	Host format

^HH	Configuration label return
~HI	Host Identification
^HT	Host linked fonts list
~JC	Set media sensor calibration
~JI	Start ZBI
~JK	Delayed cut
~JQ	Terminate ZBI
^KV	Kiosk values
^LF	List font links
^ML	Maximum label length
^MM	Print mode
^PP, ~PP	Programmable pause
~WC	Print configuration label
^WD	Print directory label

Several commands have been enhanced. See the *ZSim Command Reference* for the latest command support.

Font aliasing is now supported in ZSim.

ZSim now supports 406dpi printing.

ZSim now supports the AUTOEXEC.ZPL file.

ZSim now supports SmartSystems.

ZSim now supports Asian languages via internal mapping tables instead of requiring external .DAT files.

The ZSim Commands section of the printer web page now includes “hover help” for Ignore commands.

Smart Media Calibration

This feature allows the printer to automatically detect the media type between gap and black-mark media, the print method (thermal transfer or direct thermal) and calibrate media length all in one step, reducing the number of labels required to set up the printer. This feature is only available for PM series mid-range industrial printers and PC42t value desktop printer.

IPL – Startup Behavior Change

IPL no longer performs an automatic formfeed upon startup. IPL now respects the Printing → Media → Power Up Action setting, with a default value of **no action**. To continue legacy behavior, change this setting to **formfeed**.

Quick Choices – Now ordered

You can now set the order of items in the Quick Choices menu.

Multiple Printer-specific Settings Support

This important new feature dramatically simplifies multiple-printer deployments by allowing you to create a table of printer serial numbers within PrintSet 5.5, copy the table to a USB flash drive along with other printer setting information, and then configure printers via USB flash to include not only settings applied to every printer in the deployment but to include settings applied to printers by serial number. For example, different TCP/IP addresses can be assigned to each serial number from the same flash drive. See the PrintSet 5.5 User Manual for more specifics on this new capability.

Improved Features

PC42t – Restore Defaults Now Respects Factory Language

With this version of firmware, restoring factory defaults no longer changes the printer command language to Direct Protocol under certain conditions:

If the factory-set printer language is ESim, and the factory-supplied firmware is lower than v10 (T10.09 or lower), and the printer's factory defaults **have never been** restored, then after upgrading to v10 firmware the printer will revert to ESim if factory defaults are restored.

If the factory-set printer language is ESim, and the factory-supplied firmware is lower than v10 (T10.09 or lower), and the printer's factory defaults **have been** restored, then after upgrading to v10 firmware the printer will revert to Direct Protocol if factory defaults are restored.

If the factory-set printer language is ESim, and the factory-supplied firmware is v10 or above (T10.10 or higher), whenever factory defaults are restored the printer will revert to ESim.

If the factory-set printer language is Direct Protocol, whenever factory defaults are restored the printer will revert to Direct Protocol.

The table below illustrates:

Factory Language	Factory Firmware	Defaults ever restored?	Language after v10 upgrade <i>and</i> restore defaults
ESim	v9 or lower	No	ESim
		Yes	Direct Protocol
	v10 or higher	No	ESim
		Yes	ESim
Direct Protocol	Any	N/A	Direct Protocol

Programs – Menu Now Sorted

The Programs menus (Fingerprint and C# Programs) are now sorted alphabetically, making it easier to find the program you want to run from a long list.

Web Page – Improved Functions

The printer's firmware version now displays on the home page of the web page.

When logging into the printer, focus now automatically goes to the "user" field.

Profiles – No Longer Saves Device-Specific Fields

Device-specific fields such as the IP address are no longer saved in Profiles. This facilitates "cloning" a golden printer configuration to others in a deployment.

PC42t – Improved Precision on Long Print Jobs

Label-to-label accuracy of printed elements is improved on the PC42t printer.

IPL – Configuration Options Now in Languages Menu

IPL no longer uses the IPL.CFG file to configure IPL-specific settings. Instead, the printer now contains an IPL option in the Languages menu. Here are the IPL-specific settings you can change:

Media	
Printhead Loading Mode	Affects how data is loaded into the printhead
	Mirror – reverses image right-to-left Inverse – inverts pixels (white becomes black, vice-versa) Normal (default) – Printing as designed Mirror Inverse – Both reversed and inverted
X Origin	Shifts X position by -30 to 30 dots. Default = 0
Y Origin	Shifts Y position by -30 to 30 dots. Default = 0
Label Taken Sensor	Enables or disables (default) the label dispenser (self-strip) option.
Rewinder	Enables or disables (default) rewinding.
Rewinder Distance	Sets the distance the rewind motor steps before or after media starts feeding. Default: 100
Label Top	Sets the top-of-form position. This is the distance in 5-mil increments from the label origin to its leading edge. Default: 20.
Rest Point	Adjusts the point at which labels stop after printout. Used for self-strip and cutter applications. Default: 0.
End Skip Distance	Sets the end-of-print skip distance. This distance is a value in 5 mil increments that the label advances after printing or when you pause printing. Default: 0.
Label Retract	Enables (default) or disables the label retract option.
Retract Distance	Sets the label retract distance. Default: 0.
Media Fault Recovery	Sets the media fault recovery mode. Enable to reprint interrupted label and not to reprint interrupted label. Default: Enable.
Print Quality	
Printing Mode	Sets the print to Advanced mode or Emulation mode. Advanced (5 mil) mode lets you print labels that were designed in multiples of 5 mil, for 406 dpi in multiples of 2.5 mil. Emulation (10 mil) mode lets you print labels that were designed on an 86XX printer in multiples of 10 mil, for Emulation (15 mil) in multiples of 15 mil.
	Emulation (10 mil) Advanced (5 mil) Emulation (15 mil) Advanced (2.5 mil)
Legacy Mode	Enablers or disables (default) IPL legacy mode.
Image Compress	This setting is deprecated and has no effect
Media Sensitivity	Sets the IPL media sensitivity value. Refer to the printer user manual for valid values.
Printhead resolution	Sets the printer to the corresponding media feed adjust.
	152 DPI 203 DPI 300 DPI 406 DPI 600 DPI Default is the resolution the printer's print head.
Minimum Point Size	Sets the minimum point size for text fields.

Cutter	
Cutter	Enables or disables the cutter (if the cutter option is installed). Default: Disable.
Cutter Detected	This setting is deprecated.
General Settings	
Printer Language	Selects the code page - the character set specific to a language or region.
Preamble Character	Sets the preamble character for response strings returned from the printer back to the host. Default: 0.
Postamble Character	Sets the postamble character for response strings returned from the printer back to the host. Default: 0.
Direct Graphics Emulation	Enables to print direct graphics with the same origin offset as the 7421 legacy printer, otherwise the direct graphics origin is the same as the format's origin. Default: Disable.
Response Protocol	Sets the serial and parallel port configuration.
	XON/XOFF Standard Not used Disable (default)
Auto-Transmit X	Enables or disables auto-transmit level X printer status. X can be 1, 2 or 3 For each, default is Disable.
Auto-Transmit Disable	Enables or disables the auto-transmit printer status responses.
Null Ignore	Controls whether null characters in the data are ignored or not. Enable = Nulls are ignored Disable (default) = Nulls are not ignored
Commands Ignore	Determines if a set list of configuration commands is ignored. All <SI> shift commands can be ignored. When this command is enabled, these configuration commands are ignored by default. Default: Disable

Other items from the IPL.CFG file have been incorporated into the printer's regular configuration system.

Fixed Defects

Here is a list of defects fixed in this firmware version. The "Key" field shows our internal tracking number – if an item on this list is of interest to you and you need more information please contact your Solution Architect or technical support for details.

Summary	Key
ESIM on PC42t: v9 firmware changed the default start and stop adjust values to 148 dots from 136 dots.	
Avalanche: CFG package doesn't work properly.	FIJI-3562
BAR: ^BC – Code 128 Bar Code width was different compared to Zebra	ZSIM2-2338
BAR: 15822 SAP: EAN/UPC BARFONT ON will affect other barcode HR	FIJI-3453
CONF: Action on Power Head Down on printer for "FORMFEED" is incorrect	FIJI-3516

Summary	Key
CONF: Change the time zone, the related city isn't changed accordingly on the settings menu of PD43.	FIJI-3547
CONF: Changed password is reset after firmware upgrade	FIJI-3456
CONF: Changed password is reset when factory default and then upgrade the FW.	FIJI-3492
CONF: Media start/stop adjust changed to default after flashing firmware	FIJI-3449
CONF: Press feed not done appears after switching head down action to formfeed	FIJI-3517
CONF: Switching from DP to ESIM or ZSIM to ESIM language crashed the printer	FIJI-3469
CONF: The value of "System Name" will be changed to default after upgrade	FIJI-3572
CONF: The value of Media Start/Stop adjust value can't be modified via printer-specific xml file	FIJI-3560
CONF: Wireless UI Wizard: The printer UI will have no response after press the "next" button of setting Inner Authentication step	FIJI-3594
CUST: Logo was corrupted on the customer label	ZSIM2-2546
DP: PRDIAGONAL(PD) command can not print correctly	TM-743
DP: Script sent by interdriver using TCP/IP 9100 port can't be printed successfully.	FIJI-3485
DSIM: config file is not consistently can configure printer settings	FIJI-3263
ERR: Printhead Lifted warning msg does not exit after printhead is lowered down.	FIJI-3520
ESIM: Missing print job after Out of media recovery.	FIJI-3471
ESIM: pause and unpause on small media printing causes printer to hang up	TM-756
ESIM: Prints empty labels on first print job right after printer boot up.	TM-755
FNT: Character spacing problem on printout after mismatch media error	FIJI-3386
FNT: FP/IPL/ESIM character invert printing doesn't work properly anymore	FIJI-3633
IPL: characters too big when using <ESC>c0 and <ESC>c1 on 203dpi TPH	FIJI-3384
IPL: Clicking any button on printer UI panel, there is no any response after factory default printer and select IPL command Language	FIJI-3546
IPL: FIJI-2588 still not print space under emulation normal mode.	FIJI-3256
IPL: Interleaved 2 of 5 barcode fail to print check digit on barcode human readable	FIJI-3423
IPL: PC43t IPL has missing graphics problem when direct graphics is enabled.	FIJI-2499
IPL: SCR#3049: IPL/ESim "out of ribbon" cannot show panel,press "Home" button not work	FIJI-3551
IPL: shouldn't be shown on Language tree after restarting via webpage.	FIJI-3373
IPL: Some characters missing when printing IPL codepage	FIJI-3473
IPL: TTFL Performance for NIC/USB port Graphic.prn is slower down	FIJI-3302
IPL: Unable to handle control character like <STX><EXT> inside IPL parameter	FIJI-3377
PE: PM43 1 button printer fail to calibrate gap media with ribbon on start up calibration	FIJI-3603
QC: Menu & back button has no response, at action complete screen of Quick Choice	FIJI-3348
QC: Order may be changed after power off printer and power up again	FIJI-2659
QC: System should pop up confirm delete page when clicking a Quick choice item on the Delete Quick Choices page.	FIJI-3652
QC: The error info shown on the Ready screen shouldn't disappear when go back from Quick Choice screen.	FIJI-3343

Summary	Key
QC: The selected quick choice items shouldn't be changed to all sub items when deselect the selected top menu and then click home button on "Add Quick Choices – Choose Items" page.	FIJI-3570
QC: There should be no > button on "Add Quick Choice – Choose Menu" screen.	FIJI-2766
RFID: Airline PM23c RFID TAGREAD issue	FIJI-2012
Serial comm: is not able to communicate to printer.	FIJI-3360
UI: Click Yes button on Start LTS test page, system should start LTS test.	FIJI-3621
UI: Main menu icon shouldn't be changed to enable when a print job is paused.	FIJI-3587
UI: Main menu icon shouldn't be changed to gray after a print job is completed when command language is set to IPL or Esim.	FIJI-3616
UI: Main menu icon shouldn't be changed to gray after a print job is completed.	FIJI-3553
UI: SCR#3053: Cancel print job after Pause printer, panel always show printing status	FIJI-3630
UI: The job shouldn't be still printed when it was paused.	FIJI-3636
WIFI: PM printers takes more than 30 seconds to roam using 802.1x when the network	PMU-255
WIFI: PM43 issue authenticating against Windows 2012 Server.	PMU-243
ZSIM: BAR: ^BA – Code 93 Bar Code and ^BC – Code 128 Bar Code was missed on Field Reverse Print	ZSIM2-2527
ZSIM: Image was missed on the label using ~DY command	ZSIM2-2598
ZSIM: Thai characters can't be printed properly without CP874.dat	ZSIM2-2413
ZSIM: ^BC human readable overlap into barcode	ZSIM2-2299
ZSIM: ^BD maxicode is missing from label	ZSIM2-2325
ZSIM: ^XG Images are not printing on customer label in ZSIM2	ZSIM2-2421
ZSIM: ~HS command slow response	ZSIM2-2365
ZSIM: BAR: ^B5 Planet barcode different printout in height and width compare to ref.	ZSIM2-1245
ZSIM: BAR: ^BC Code 128 Barcode was missed on customer label	ZSIM2-2376
ZSIM: BAR: ^BR barcode incorrectly print guards	ZSIM2-2646
ZSIM: BAR: ^BS UPC/EAN Extension differences from reference printout	ZSIM2-1287
ZSIM: BAR: ^BS UPC/EAN Extension missing human readable data	ZSIM2-1289
ZSIM: BAR: ^BU – UPC-A Bar Code was missed on Customer label	ZSIM2-2385
ZSIM: BAR: ^BY_B4 Bar Code was not printing	ZSIM2-2629
ZSIM: Data at left edge of label is truncated	ZSIM2-2512
ZSIM: Extra 'A' is printing in Human readable text when compared to ref.	ZSIM2-2317
ZSIM: Field data not printed with the ^FD ended with <SI>	ZSIM2-2061
ZSIM: Field Number 0 (FN0) not working correctly	ZSIM2-2382
ZSIM: Fix font 0 left parenthesis size	ZSIM2-2219
ZSIM: FNT: GB script prints garbage with using GB.DAT	ZSIM2-2597
ZSIM: FNT: JIS script prints garbage without using JIS.DAT	ZSIM2-2594
ZSIM: FNT: Some invalid Korean code points are printed as garbage.	ZSIM2-2514
ZSIM: LC: [^BM not supported] DUT's Webpage hanged while sending the script, not able to print the label	ZSIM2-1272

Summary	Key
ZSIM: LC: Information obtained for ~HI command is not correct	ZSIM2-1181
ZSIM: Missing Korean characters	ZSIM2-2319
ZSIM: OP: ^CN cut now command doesn't do any cut when sending the script with cut command	ZSIM2-1504
ZSIM: PE: Label does not eject far enough to peel position under peel-off	ZSIM2-2647
ZSIM: start-system not executed	ZSIM2-2535
ZSIM: Thai not printed with CP874 and Angsana font	ZSIM2-2320
ZSIM: TL: Basic printer configuration Label not printing on sending ~WC command	ZSIM2-1970
ZSIM: ZSIM Image is Missing	ZSIM2-2271

Version x10.09.010948 Key Features

New Functionality

ZSim2 – New Zebra Programming Language (ZPLII) Emulator

ZSim for v9 firmware has been dramatically improved, with dozens of newly-emulated commands, expansion of existing commands increased to full support, a new interface and dramatically improved font support. Find details of the new functionality in the ZSim Command Reference Manual downloadable from www.intermec.com, but here are the highlights:

- *Full support for core 108 commands.* We studied every customer script encountered in over 15 years of collection and found 108 commands. These commands are all fully supported (to the abilities of our hardware) in ZSim2.
- *Dramatically improved font support.* In addition to the CG Triumvirate Condensed Bold font introduced in v8 firmware as the new “font 0”, all other ZPLII fonts are now dramatically improved. Most users will not be able to see a difference from ZPLII with labels printed with ZSim2.
- *Now uses the standard “Ready Screen” interface.* ZSim2 is now integrated into the normal display of our printers. This provides a superior user experience:
 - Instead of a two-line text display, you will see our familiar “Ready” indicator when the printer is ready for label jobs.
 - To enter the printer menu simply press the Menu button. It is no longer necessary to enter a PIN (although you may PIN-protect the menu if you desire).
 - If desired, you can display the printer’s IP address in the bottom-left corner of the screen.
 - You have access to the other capabilities on the Ready screen, like the Info display etc.
- *No more ZSIM.CFG.* The ZSIM.CFG file has been eliminated and its fields are now part of the printer configuration system. This has many benefits, such as:
 - Many settings in ZSIM.CFG were duplicates of normal printer configuration items (such as StartAdj). These settings are now managed as part of the printer configuration, eliminating the possibility of synchronization errors.
 - ZSim-specific settings are in their own branch of the printer’s menu: Settings → Languages → ZSim.
 - Since ZSim-specific settings are part of the printer’s normal configuration system they may be exported and imported just like any other setting. This greatly simplifies “cloning” a golden configuration from one printer to another.
 - On upgrade to v9 firmware, all settings are automatically transferred to the configuration system and the ZSIM.CFG file is renamed to ZSIM.OLD.
- *No more ZPLIGNORE.TXT.* We have eliminated this Ignore Commands file:
 - The Ignore Commands list is now a fixed list in the configuration system rather than an unlimited list of commands. We did this for performance reasons.
 - On upgrade, the list of commands to be ignored is automatically transferred to the configuration system and the ZPLIGNORE.TXT file is renamed to ZPLIGNORE.OLD. Any commands in this file that *do not* appear in the Ignore Commands list are marked with “Cannot be ignored.”
- *No font aliasing.* *Font aliasing* was created in ZSim1 to enable customers to fine-tune font typeface, size and positioning so ZSim text elements would render more like the labels originally printed with ZPLII. We have taken great pains to ensure that all text fields render as close as possible to identical to ZPLII without ever being “wider.” Thus, for virtually all customers font aliasing should no longer be required.

Quick Choices

This new feature enables you to create a list of frequently-accessed menus or items, then users can access them with just a tap of the Menu button. The large, square buttons of the Menu are changed to a vertical list of Quick Choices, with the printer's main menu always the top choice. Here is the PM43 printer menu screen showing the standard menu (left) and with Quick Choices defined (right):



Usage notes:

- You may add Profiles, FP/C# applications, Test labels, and Wizards to the Quick Choices list.
- The main menu is always the first choice when the printer's Menu button is pressed.
- The vertical list of Quick Choices scrolls if more are defined than will fit on one screen.
- The Quick Choice list may not be ordered at this time. Quick Choices appear in the order in which they were added to the list.
- Once a Quick Choice item is selected, once its function is performed the printer returns to the Ready display (Note: selecting a Smart Printing app runs that app – however, once the app exits the printer returns to the Ready display).
- Quick Choices are saved when you export settings and may be imported to another printer using a USB flash drive. Make sure the new printer has the Quick Choice item ... for example, if you have installed Smart Printing apps on your "golden printer," make sure those apps are also installed on any other printers to which you import Quick Choices.

To manage Quick Choices, do the following:

1. Open the printer menu.
2. Choose Tools.
3. If necessary, scroll the menu until Quick Choices appears and then select it.
4. Choose "Add" to add a new choice, or "Delete" to delete an existing Quick Choice.

5. You may add entire menus as Quick Choices (for example, the “C# Programs” menu) or you may add individual items (for example, a specific Profile you have created).
6. Remember that the Quick Choice list is ordered in the order in which Quick Choices are added – later additions appear at the bottom of the list.

This feature will be extremely useful for users who change media frequently:

1. Create Profiles for each media type.
2. Add each Profile to the Quick Choices list.
3. Now when users press the printer’s Menu button, what will display is a vertical list of items with the printer’s Main Menu as the top item and each Profile directly underneath.
4. Users can thus change the printer’s media settings with two taps rather than having to navigate the menu system to Profiles and then select the desired Profile, or by changing individual media-related settings.

Those running Smart Printing applications will also find this very useful. Rather than having to create a menu app that calls other Smart Printing apps, just:

1. Add each Smart Printing app to the Quick Choices list.
2. Now when users press the printer’s Menu button, what will display is a vertical list of the Smart Printing apps you added to the Quick Choices list, making it very simple to start apps.

Time Zone Support

You may now specify the time zone in which the printer is deployed. This will be very useful to users with applications that print labels with time or date fields that use the printer’s internal clock.

For time zones that switch between Standard Time and Daylight Savings Time, you may enable ST/DST switching (the default behavior) or disable it.

Time Zone Support is disabled by default, to support legacy applications that may be adversely affected by it.

To configure the time zone:

1. Open the printer menu.
2. Choose Wizards.
3. Choose Calibration
4. Choose Date & Time.
5. The Wizard steps you through the process of configuring a time server (see below) and setting the date/time.

If you enable Network Time Server (NTS) support (see below), setting the time zone becomes part of the Date & Time Calibration Wizard.

The printer’s time zone becomes part of the printer configuration and is exported and imported along with other configuration items.

Network Time Server Support

You may now have network-connected printers periodically access a network time server (NTS) to maintain accurate time. The printer will synchronize its internal clock with the time server approximately every 60 seconds.

NTS support is disabled by default.

To enable NTS support:

1. Open the printer menu.
2. Choose Wizards.
3. Choose Calibration.
4. Choose Date & Time.
 - a. Accept the default server of ntp0.cornell.edu or change to your time server.
 - b. Accept the default port of 123 or change to the port required by your server.
 - c. Choose the UTC offset for your time zone.
 - d. Choose your time zone within the UTC offset.
 - e. Choose whether to adjust for Daylight Savings Time.
 - f. The printer will access the time server and set its internal clock. Confirm the date and time.

Note: printers without a real-time clock can use this feature and will set their internal clock at each startup. However, they will not display the date and time on their Ready display.

Printer Now Displays Shutdown Message When Running Smart Printing Apps

Printers with super-capacitors (such as the PM43) now display their “Shutting down” message on top of Smart Printing applications if the user physically turns them off.

New Fingerprint SYSVAR to Detect Cable Plugged into USB Device Port

A new SYSVAR(93) can be used to detect whether a USB cable is plugged into the printer’s USB *device* port.

- ? SYSVAR(93) returns “1” if a cable is plugged in.
- ? SYSVAR(93) returns “0” if a cable is *not* plugged in.

New Info Access Configuration Item

A new configuration setting allows control of access to the Info and Communications soft buttons at the top of the printer display.

To access this feature from the printer LCD menu (or the printer web page):

1. Open the printer menu.
2. Choose Settings
3. Choose System Settings.
4. Choose Display.
5. Choose Info Access
6. Enable or disable access.
 - a. If disabled, the Info and Communications buttons at the top of the screen are disabled.

Improved Features

Media Setup Wizard Now Validates Entered Speed

The Media Setup Wizard now validates the entered print speed value. If the value is outside the allowed range, an error displays and the entered value is rejected.

Time/Date Disabled if Not Configured

If the printer's date is earlier than 2000, the printer assumes the date is not set so will not display the date or time.

Other Improvements

In addition to the specific items above, here is a list of other issues fixed or improved in this release.

Issue Type	Summary
New Feature	EWR 14298 - PC43 SNMP Trap for next label not found
New Feature	EWR 14437 - PC43 Zsim doesn't support ^GFB
New Feature	EWR 14605 - ZSIM feature to handle external fonts
New Feature	EWR 15313 - IFAST ZSIM ^CN Support - Cut command
New Feature	EWR 14448 - ZSIM to print more copies of a label
New Feature	EWR 15364 - Implementation on ZSim - Aztec barcode non printable characters
New Feature	EWR 14960 - ZSIM ~DY Support Required
New Feature	EWR 16170 - Add support for print pitch label command
New Feature	EWR 16424 - Export tool does not take files from all directories
New Feature	EWR 16485 - Legacy Mode not printing correctly
Improvement	EWR 14128 - ZSim Font Inconsistencies
Defect	EWR 14934 - PM43 IPL single byte status is incorrect
Defect	EWR 13946 CPR 141003-000071 PM43 does not print IPL the same as the PF/PM/PX
Defect	EWR 13837 CPR 140707-000170 - PM43/43c Variance in TPH burn line to cutter distance
Defect	EWR 13850 CPR #140828-000082 - PM43 - Dsim - printer locks up when printing large jobs
Defect	EWR13928 Magnification works in MR7 (P9062) but not in MR8 Sprint 16 RC (P10.08.009511)
Defect	EWR13928 Print Location is different as compared to MR7
Defect	EWR 13977 CPR 141107-000116 – PM43 IPL not the same as PM4i
Defect	EWR 13865 17054 - CPR 140604-000016 PM43 - does not print 108mm width
Defect	EWR 13849 17015 - CPR 140604-000154 Incorrect position&orientation chinese characters
Defect	EWR 140001 CPR 141203-000017 PM43C ZSim missing image, defect found during test in FIJI-2355
Defect	EWR 14001 iFast 141203-000017 PM43 (300DPI) (ZSim) print out text and barcode text sticking
Defect	EWR 14918 ZSim: Datamatrix bar code prints larger than ZPLII
Defect	EWR 14653 PC43T Data was missing randomly on the label
Defect	EWR 14654 - PM43 IPL not able to download UDC graphics
Defect	EWR 13932 CPR 141102-000013 PM43 not able to print via USB interface from InterDriver after computer suspend and resume
Defect	EWR 14028 iFAST 140711-000053 PM43 ZSim Software has printing delay problem
Defect	EWR 14451 PM43 IPL Does not print the Datamatrix barcode
Defect	EWR 14653 - PC43t - Missing print data randomly through RS232
Defect	EWR 13867 17066 - CPR 140610-000028 Data Processing time via UART1 slower in PM43c
Defect	EWR 14923 - PM43 IPL Logo dropping
Defect	EWR 15170 - PM43 not printing a file a Zebra printer does
Defect	EWR 14882 - PM43 IPL Fails to print one of the labels in a batch
Defect	EWR 15123 PM43 XML printing out of sequence

Issue Type	Summary
Defect	EWR-14723 Incorrect Font and Image handling in ZSim
Defect	EWR 13869 PM43 - SETSTDIO 0 functionality different from PF4i
Defect	PC43 IPL Not all the UDF fonts can be downloaded
Defect	EWR 14980 - PM43: (IPL) Text boxes around human readable fields not working
Defect	EWR 14890 - PRBOX slows down printout dramatically
Defect	EWR 13982 17131 - CPR 140826-000117 PM43 does not print after receiving the script
Defect	EWR 15036 - PM43: (FP) Control+C is not working if buffered with some data before
Defect	EWR 15282 - PM43: (DP) PM43 printing different from PM4i
Defect	EWR14948 PM43: (ZSim) Print out text and format is different
Defect	EWR 15877 - PM43 Font alias conflict
Defect	EWR 15747 - PM43-XML-response non correct answers
Defect	EWR 15960 - PRSTAT does not work the same on the PD43 as it does on older printers
Defect	EWR 13849 17015 - CPR 140604-000154 width of space in PM43 IPL legacy mode is smaller than the width in PM4i legacy mode
Defect	EWR 15826 - PM43 prints UDC differently than PM4i
Defect	EWR 15684 - Zsim field increment feature not working with P10.08.009759
Defect	EWR 14741 - PC23 sensor issues
Defect	EWR 16329 - Z-Sim printing only one label
Defect	EWR 15647 - PM43: (ZSim) Printout is out if printing in continuous fashion
Defect	EWR 15996 - PM43 Security Vulnerability
Defect	EWR 13984 CPR 140905-000111 - PM43 randomly missing fields and labels
Defect	EWR 15555 - PM43- Not able to print multiple jobs over FTP
Defect	EWR 15747 PM43C will sends [RST, ACK] to the client and the connection break
Defect	EWR 15922 - ZSIM Font size wrong
Defect	EWR 15321 - (ZSim) Bar Code prints in wrong position
Defect	EWR 16365 - PM43: (DP) PM43 printing different from PM4i (follow up)
Defect	EWR 16279 - PM43 - Text field won't print when it has a leading space character
Defect	EWR 16106 - PM43 IPL not printing spaces
Defect	EWR 16475 - PD43, MR8, ZSim issue with ^IL command
Defect	EWR 16090 - PM43 Icon Printer not saving start/stop values running DSim
Defect	EWR 16496 - PC43 Dsim not encoding space character into code 128
Defect	EWR 16614 - PM43: (IPL) Missing printed data on label

Fixed Defect Reports

The following defects have been resolved in this release.

Issue Type	Summary
Defect	Printer RTS/DTR state change when modifying setup
Defect	17033 - Par: / dll: communication icon won't stop blink
Defect	SCR#2985 VCOM trouble- PC reboot when printer running
Defect	16992 - Can't get printer response after reinstall VCOM host driver
Defect	"next label not found" error not displayed on webpage
Defect	PMX SCR#2997 - ESim: ^ee does not return 00 for actual printer status

Defect	PD43: Print head must be lifted after paper out (Airline autofeed support)
Defect	Fiji-Fingerprint-For invalid datamatrix barcode size, default value is not assumed
Defect	IPL media length not set correctly
Defect	IPL iplUdcParse command remove CRLF causes error on variable data
Defect	PC43t ZSIM reports "next label not found" instead of "Out of paper" when gap media is used up
Defect	^CN and ^KV commands are ignored when ZPLIGNORE.txt is applied
Defect	SCR#3021: "formfeed" negative label length huge different with actual label length
Defect	Performance slow on printing with a box design label in DP mode
Defect	IPL <ESC>C command is not reflecting the correct setting at configuration
Defect	PD43c incorrect feed length (media setup=FIX LENGTH STRIP)
Defect	Sysvar(42)=1 (stop in middle of gap) does not work
Defect	SNMP job complete trap timing inconsistent
Defect	SVCD: Arinc linklayer (DLL:) problem
Defect	New line faulty converison
Defect	setup "SER-COM,USB1,NEW LINE" has no effect
Defect	No print if negative stopadj
Defect	Profile feature allows spaces in filename but will not load them
Defect	EWR 15922 - (ZSim) Incorrect Vertical Position of Field Block
Defect	SCR#3023: PD43 incorrect feed length when,StopAdj is negative
Defect	run "installfile <file>" crash on corrupt <file>
Defect	Can't remove corrupt UFF - printer crash
Defect	15656 - From #15640 (SCR#2529) USB Menu "Upgrade error" if re-name firmware.bin file
Defect	SCR#3026: When printer No media in LSS PD43 PRSTAT value does not same as PM43
Defect	17029 - SVCD: iProduct model string not working
Defect	Printer can't start up after upgrade firmware by USB stick
Defect	Send query firmware version command [0x02]v to Dsim printer not return fw version.
Defect	ESIM density/darkness setting cannot set after default or system setting
Defect	FP crash on SMTP_PORT setup command
Defect	PQ label - chess, pyramid TPH resistance always display 0 when the fresh printer first time power up
Defect	Missing "Univers Condensed Bold" in webpage font lists

Version x10.08.009759 Key Features

Version Numbers

Family	Model Names	Firmware Code	IPL	ESim	DSim	ZSim
PM Series Mid-range Industrial	PM43, PM43c, PM23c	P10.08.009759	1.001044	N/A	6.001044	6.001044
PC Series Desktop	PC43t, PC43d, PC23d	K10.08.009759	1.001044	1.001044	6.001044	6.001044
PD Series Light Industrial	PD43, PD43c	K10.08.009759	1.001044	1.001044	6.001044	6.001044

New Functionality

New CG Triumvirate Condensed Bold font

We are now including the CG Triumvirate Condensed Bold font starting with this firmware version as the default font for ZSim, our Zebra ZPLII simulator. CG Triumvirate is the default "font 0" for ZPLII (produced with the ^A0 command). Labels printed in ZSim will now much more closely match those printed by ZPLII on competitors' printers than with prior versions of ZSim.

This may change the look of printed labels depending on your circumstance (this only affects users running the ZSim language – other languages are not affected):

- If you use font aliasing to fine-tune your fonts, your labels will continue to look exactly like they did before the upgrade. The new CG Triumvirate font will not be used. To begin using the new font, simply delete the font aliasing file ZSIM.FNT from the /home/user folder of your printer.
- If you do not use font aliasing, your labels will automatically start using the new CG Triumvirate font and they will look like labels printed by a Zebra printer – and they will look different than labels printed in ZSim before.
 - If you are satisfied with the new font, you do not need to do anything.
 - If you prefer labels with the Univers Condensed Bold font used by prior versions of ZSim, create a ZSIM.FNT file referencing that font for font 0 and place the file in your /home/user folder, then restart your printer. The printer will again use Univers.

Restored IPL Speedo fonts for Legacy Mode

For customers using IPL Legacy Mode, we have restored the Speedo fonts present in the PM4i and earlier model printers. This will result in label formats printed using Legacy Mode commands that look much closer to the legacy model printers than before.

If you are not using Legacy Mode your labels will continue to look as they have.

Restored IPL 86xx-15mil bar code capability

We have restored the ability to print 15mil bar codes. This will especially help 86xx printer users wishing to upgrade to our latest printers.

ZSim: Autohunt now enabled by default

In ZSim, our "autohunt" capability is now the default. Autohunt allows the printer to continuously monitor all attached connections for incoming data streams. It is no longer necessary to specify the port to listen on for incoming label data streams.

Changed Functionality

The following items have changed and/or been fixed in this version. The Summary describes the problem solved in this version.

Barcodes

Summary

- 16923 - CPR 140423-000154 EAN Barcodes not printed in some labels.
- 16860 - CPR 140404-000008 ZSIM:Missing Texts and Barfont under Code128 barcode
- 17000 - CPR 140528-000130 Incorrect IPL Code 39 barcode ratio
- 17098 - iFAST 140806-000147 ZSim not printing Aztec barcode if some parameters are empty
- EWR 13945 CPR 141118-000144- PC43-IPL Doesn't print all data in Datamatrix barcode
- EWR 14029 iFast 140819-000138 PM43 ZSim Maxicode not printing with P10.07.009062
- 16965 - CPR 140506-000025 Barcode Text large & incorrect alignment
- 17019 - derived from CRISP #873_Issue#16940 IPL:EAN (c7) incorrect size printout on 406dpi**
- 17020 - derived from CRISP #873_Issue#16940 IPL:Incorrect size 2D barcodes for 15mil emulation**
- 16997 - derived from CPR 140506-000025 Issue#16965 ZSIM:Barcode human readable cannot be turn off**
- 16938 - Truncated data in Datamatrix barcode**
- 17023 - IPL:Datamatrix barcode printed incorrectly**
- 17025 - derived from issue#16938 FP:Datamatrix barcode printed out incorrectly**
- 17082 - derived from santa #17047 ZSIM:Missing start and stop char for Code93 bartype**
- EWR 13860 CPR 141014-000142 - Get the wrong resulted barcode when sending EPL command to PC43**
- LC: Barcode missing when printing ZSIM performance test script**
- LC:ZSIM cannot print code128 barcode on the provided script**
- ZSIM missing code128 barcodes on UCC Case Mode**

C# for Printers

Summary

- MR7 16814 - 16714 C# Inline formatting not working for center/right alignment**
- MR7 16815 - 16763 C# Ignore Inline Command if Bold or Slant already chosen**

Configuration

Summary

- 17111 - derived from CPR 140707-000170 issue#17078 Cutter default value is not according to IPL ref manual**
- 17112 - derived from CPR 140707-000170 issue#17079 <SI>D Default value is not the same with PM4i printer**
- 17120 - Display language returned value defer from FFS for Chinese.S**
- 17133 - Network Services,Web Server,Image Buffer not found in FFS**
- Webpage: ZSIM unsupported input port by DUT configuration still available for selection**

Fonts

Summary

16939 - CPR 140421-000160 PM43 - IPL c57 to c60 are not scaled properly
EWR 13911 CPR 140722-000037 - ZSim font B in stored format prints too small
Slashed Zero: fonts printed with a slashed capital "O". Now they print with a true slashed zero.

Images

Summary

17018 - CPR 140610-000013 Missing Image in Autohunt Mode
EWR 13891 Tracker 17016 - CPR 140605-000010 PM43 IPL not able to download UDC graphics

Language conformance

Summary

16878 - CPR 140415-000144 Printed Text Position Shifted to Left
17079 - CPR 140707-000170, 17078,15561 <Sl>D,End Skip Distance not working
17059 - CPR 140706-000007 Incorrect printed dotted line in PC43t vs PF8
16909 - CPR 140422-000008 Image Size printed wrongly when cmd GG at the end of script
16921 - CPR 140423-000001 IPL command G does not clear created UDC Graphics
16999 - CPR 140528-000085 PC43T- Not Printing variable fields
EWR 13961 CPR 140818-000114 FB command print position
CPR 140915-000158 - iFAST PM43 (ZSim) print out text and barcode text sticking, some characters can't print out and some characters are wrong
17130 - CPR 140909-000037 Incorrect printed location for Bar Text
17135 - CPR 140915-000019 Barcode I 2 of 5 is printed incorrectly
17134 - CPR 140911-000004 ^ee does not return 00
17011 - derived from CPR 140520-000150> issue#16994 ZSIM:Graphics file fail to print on printer.
16935 - derived from IFast 131209-000050 Issue#16546 ZSIM:^SF command does not inc for lower case input
16554 - Diff in syshealth between PC Series and PM4i/PF4i
16560 - Setup key OFF/ON does not work in immediate off mode
17035 - derived from CPR 140415-000144 issue#16878 ZSIM:Missing box and text on printout using FD field
CPR 141003-000071 PM43 does not print IPL the same as the PF/PM/PX
CPR 140506-000025 (issue 16965) printout is different from Zebra printer's.
CPR 140404-000008 (issue 16860) printout is different from Zebra printer's.
Default <Sl>F is 0 for continuous media

Localization

Summary

VOID Text translation for Italian causes problem in PrintSet

Options and accessories support

Summary

EWR 13897 17132 - CPR 140903-000149 missing printed data randomly using USB-to-Serial cable

Performance and memory

Summary

16994 - CPR 140520-000150,16578,16623 losing labels on end of print job
EWR 13911 CPR 140722-000037 - PM43c ZSim slow to print
PERF: Memory Full error observed after leaving printer idle
ZSIM TTFL printing timing for graphics print job degrade

Print engine

Summary

17078 - CPR 140707-000170 PM43-Media is retracted too far after cutting
16865 - CPR 140404-000066 Text gets cut off toward the end of the label.
17119 - CPR 140827-000104 The Y-position of Texts and Barcodes is different
15293 - PMX SCR#2428 Butterfly media calibration FAILED at 9mm GAP hole
16863 - PMX SCR#2914 PC/D43 "Next Label not found" behavior not same as PM43
17099 - PMX SCR#2970 Continuous media won't report "Out of media" (Degrade)
16429 - PMX SCR#2755 6mm Media get wrong value with specified Start/Stop adj
17075 - 17054 Incorrect Print width value return against Spec
CPR 141001-000133 After sending the lineanalyzer file, ORIG_LA-capture.IPL, the PM43 printer will print the first label, but then flash the blue RtW LED and not accept additional print jobs.
PE: Sysvar(50) cannot set greater than 500 dots.

Test Labels

Summary

PMX SCR#2989: Test Labels: 2" printer PC23d is NOT able to print "basic_config" label
PMX SCR#2988: Test Labels: ESim and ZSim Configuration label not localization
SIMULATORS blank label printed when triggered basic configuration label
ZSim: Icon model printer only print 1 part of configuration label.

USB Device Port issues

Summary

16988 - Hot Swap functionality for the Airline application
16980 - READY 6 / BUSY 6 can not be set when USB cable disconnected
SCR#2982: Virtual COM: /pffs/.usb1 does not seem to work.
16991 - Comstat(6) returns 1 after rebooting without USB connection

User Interface

Summary

17128 - CPR 140905-000068 IPL exit to FP if back key is pressed
17105 - CPR 140821-000108 "Printing 1 of 1" remains at PM43 LCD
CPR 140902-000164: Restore Default holding feed with clam shell open not works

Known Issues

ZSim webpage

On the web page, under certain circumstances a "500 – Internal Server Error" will be displayed when attempting to display or edit ZSim settings.

Workaround: Restart the printer.

Version x10.08.DB009438 Key Features

New Functionality

None

There are no new features implemented in this release.

Changed Functionality

WiFi Connectivity

This release contained a specific fix for WiFi connectivity issues encountered by a specific customer.

Version x10.07.009375 Key Features

Note that this firmware version, "MR7.1", was only released for PC and PD Series printers. There was no MR7.1 release for PM Series printers.

New Functionality

None

There are no new features implemented in this release.

Changed Functionality

Fix to address “Shellshock” vulnerability in bash

The “Shellshock” vulnerability in bash has been fixed. **Note that this affects *only* PC and PD Series printers, as PM Series printers do not use bash.**

Airline software-related issues

Several issues related to airline applications have been addressed:

Issue ID	Summary Description	Subsystem
16554	Diff in syshealth between Kili as in Asterix	Reporting
16560	Setup key OFF/ON does not work in immediate off mode	Language conformance
16823	Sita VCOM test- Stopped after received <Nack> from printer	Performance
16980	READY 6 / BUSY 6 cannot be set when USB cable disconnected	Performance
16988	Hot Swap functionality for the Airline application	Performance
16991	Comstat(6) returns 1 after rebooting without usb connection	Performance
16992	Can't get printer response after reinstall VCOM host driver	Performance

Version x10.07.009062 Key Features

New Functionality

- Barcode enhancements:
 - Implement barcode size option for DataMatrix barcode
- Configuration enhancements:
 - Ability to connect more than two BT devices at the same time
 - Ability to ignore specific commands in ZSim
 - Ability to enable/disable Ethernet
 - Web page and USB menu option for action on head down
 - Add "archive unpack" installer for Smart Printing apps from web page and USB menu
 - ZSim-specific configuration options in Webpage
- Direct Protocol enhancements
 - Ability to format text within text fields (EU Food Labeling EU 1169/2011 Support)
- C# enhancements
 - Ability to format text within text fields (EU Food Labeling EU 1169/2011 Support)
 - Cutter support
 - C# TextBox support for multiple delimiter and soft hyphen
- IPL enhancements
 - Changes to transmit responses to follow legacy behavior
- Web page enhancements
 - INprint ability to scan to populate fields

Improved Functionality

Issue ID	Summary Description	Subsystem
13515	300dpi: JIS-ITF barcode is printing not similar to asterix	Barcodes
14047	IPL: Maxicode barcode NOT printed if <SUB>SO/SI is in data.	Barcodes
14106	IPL:Code 39 c0 Date Barcode wrongly printed (12/005/016).	Barcodes
14162	IPL: Code128, Barcode pattern diff in Customer sDFdose label	Barcodes
15415	IPL:<SUB><LF><SUB><VT><SUB><CR> as bar data fail	Barcodes
15701	IPL:c14 barcode not printing correctly(degrade)	Barcodes
16046	IPL:Human readable is not the same size as PM4i	Barcodes
16258	IPL x & y offset for fonts aliasing in barcode s not working	Barcodes
16439	ZSIM:Barcode and scan data difference compare to zebra	Barcodes
16475	ZSIM:Difference in barcode printout for UCC case mode.	Barcodes
16587	ZSIM: Missing barcode printout on customer script	Barcodes
16783	IPL: Incorrect printout for code128 barcode	Barcodes
16822	FP crashed if c2of5 input data more than 100	Barcodes
16837	IPL:Incorrect printout for data with non-printable <SUB>	Barcodes
16871	IPL: Printer hang up on script with invalid characters	Barcodes
16703	Bluetooth: Multiple print jobs at spooler, loss pages	Bluetooth
16704	Serial Port Service failed sometimes after send print jobs	Bluetooth

Issue ID	Summary Description	Subsystem
15941	Command language setting lost at firmware upgrade	Configuration
16739	IPL:406dpi default start and stop adjust not correct	Configuration
16749	VCOM Enable/Disable settings are not persistent	Configuration
13309	Appearance of Press Feed not done after exiting frm Menu	Error Handling
13879	IPL:One extra label printed after recovering from media out.	Error Handling
13880	IPL: Label NOT reprinted when err occur on batch last label	Error Handling
13896	IPL: LPR port stops printing after error recovery.	Error Handling
13914	IPL: Processing DP commands and goes to wierd state.	Error Handling
14065	IPL: PAUSE NOT effective when performed with LTS ON.	Error Handling
14069	Auto feed or Testfeed not done is not showing or done	Error Handling
14476	Wrong batch count display and 2nd print job disappeared	Error Handling
14757	Printer struck with no page select	Error Handling
14847	'Press feed not done' not seen after media change	Error Handling
14941	IPL:Not able to print after switching from DT to TTR	Error Handling
15084	<SI>g command is not working if printer got err.	Error Handling
15653	Error Code 22 not generated (degrade)	Error Handling
15666	C#:No error exception when some problem with error reporting	Error Handling
15669	C#: Cannot capture TestFeedFailed status info when running	Error Handling
15832	IPL: 1 left label, sent single job, printed 2 labels	Error Handling
16511	DT mode, send a TTR script, error recovery loss 1page	Error Handling
16558	IPL:Unexpected error shown after changing media type.	Error Handling
16713	C# cutter error message does not display on printer UI	Error Handling
16727	C# "Cutter device not found" does not display on printer UI	Error Handling
13418	Transmit Fonts, still return "Futura Light BT" & "Prestige	Fonts
13919	User-defined character default size issue	Fonts
14490	<HEIGHT> and <WIDTH> in IPLFNT.ALS can't work properly.	Fonts
14911	Dirrerent character size for <ESC>C1 when using 406dpi TPH	Fonts
15801	C# Render call stuck when using font alias	Fonts
16390	IPL UDF Tn command can't delete UDF	Fonts
10598	Soft reset command ~JR does not work	Language Conformance
13446	"Autohunt" not able to printout prn file	Language Conformance
13585	Invalid pages transmitted when PAGE1 is present	Language Conformance
13588	Graphics List/Print command not working	Language Conformance
13597	Media Fault Recovery Mode, Set <SI>e cmd not work	Language Conformance
13599	Bartender prn file, "Box" line not same as PD42	Language Conformance
13610	IPL: <ETB> entered twice in a label causes a pause.	Language Conformance
13677	Unable to Communicate after stopping Line Analyzer	Language Conformance
13681	Memory usage transmit displays same result for 1 and 0	Language Conformance
13709	Option selection for cutter is not returning correct value.	Language Conformance
13835	<CAN> command doesn't clears all host-entered data	Language Conformance

Issue ID	Summary Description	Subsystem
13836	<DLE> command does not reset the printer	Language Conformance
14072	Error enquiry during Next label not found, gives Syshealth	Language Conformance
14080	The third image job missing	Language Conformance
14082	UI displays the batch count wrongly	Language Conformance
14182	On error, extra 2 jobs getting printed with LTS enabled	Language Conformance
14582	<ESC>H command does return the complete numbers	Language Conformance
14752	Batch printing for small size media will not work.	Language Conformance
14978	ESIM: Problem downloading the graphics	Language Conformance
15395	C#: The Max parameter 32767 couldn't be set when....	Language Conformance
15396	C#: The boundary parameter of "Printing,Media,Print....	Language Conformance
15397	C#: The Max parameter 32767 couldn't be set when....	Language Conformance
15398	C#: The Min parameter 50 couldn't be set when....	Language Conformance
15401	C#: An error "The Parameter too small at Intermecc....	Language Conformance
15417	Graphics are not transmitted for <ESC>un	Language Conformance
15672	IPL:Default format 0 will not work if its invalid range	Language Conformance
15852	IPL not printing correctly with <ETB> and <ESC>P cmd	Language Conformance
16036	IPL:Some barcodes are missing for I5 above field	Language Conformance
16042	If used before text field, text won't be printed	Language Conformance
16087	IPL can't handle parser command well	Language Conformance
16091	V is NOT work to print form for download font (Degrade)	Language Conformance
16092	Send Var data script, then normal file can't print(Degrade)	Language Conformance
16098	The scanned value is incorrect after send <SUB><DLE>	Language Conformance
16190	IPL: Incorrect barcode printout for code39 with prefix char	Language Conformance
16338	C# application cannot wake up on data activity	Language Conformance
16413	If I field data is not given,a black bar is printed wrongly	Language Conformance
16414	Batch printing not correct with LTS disabled	Language Conformance
16437	<ESC>p command always return <SI>g0,180.	Language Conformance
16500	C# version not matching Fiji version	Language Conformance
16580	Char missing when using Inline Text Formatting on PRBOX	Language Conformance
16582	Different PRBOX printout when using different STX value	Language Conformance
16584	PRBOX printout error using UTF-8 encoding	Language Conformance
16586	IPL:Fields that has the same number print incorrectly	Language Conformance
16589	PRBOX printout error using UTF-16 encoding	Language Conformance
16622	Character 0x23 looks wrong for Italy under emulation mode	Language Conformance
16694	Error pops after printing text with InlineFormatting format.	Language Conformance
16705	DSIM:Extra space/gap between 2 labels	Language Conformance
16714	Inline Formating doens't work properly for align 2/5/8/3/6/9	Language Conformance
16745	Directory not created with MKDIR & Kill command not working	Language Conformance
16763	Inline Formatting enhancement for SLANT & BOLD attributes	Language Conformance
16421	Truncation found on Install All Resources	Localization

Issue ID	Summary Description	Subsystem
16422	"Profile" not translated in web page	Localization
16423	"Install All" under USB Menu is not translated	Localization
16038	PM43 does not send Gratuitous ARP Static/DHCP IP config both in Ethernet/Wifi	Network
16676	Printer leave 1 night can't upgrade FW via FTP	Performance
16711	comstat didn't return hardware handshake bit	Performance
16806	Serial COM: Printer can't print huge data prn file	Performance
16842	PC43 Serial port communication issue	Performance
10408	Xstart 300 and 400 differs from old printer	Print Engine
16399	LSS sensor failed to sense max length BM and notch	Print Engine
16502	Print Engine:Cutter cut at wrong position after power cycle	Print Engine
16526	Move forward/back few times can't stop at origin position	Print Engine
16556	PC43 NOT give "Next label not found" on last tag	Print Engine
16601	Stress test:Continuous print 5000 jobs hang up as "Printing"	Print Engine
16669	Black Mark INBND26275, can't stop at TearBar after print	Print Engine
16672	Wide Mark media print 6 and 8ips, printout wrong	Print Engine
16689	Print Engine: 'Out of Ribbon' reprint is wrong	Print Engine
16691	300dpi with 2ips printing can't stop at Tear Bar. (Degrade)	Print Engine
16753	300dpi , TESTFEED a short length won't get error	Print Engine
16816	Black Mark media autofeed happen "Next Label not found"	Print Engine
16805	"user"/"admin" can delete a file created by "itadmin"/"root"	Shell Utilities
16740	SNMP "bcpThermCounterValue" returns wrong value	SNMP
16677	setup write "Stdout command display "No Action"	Status/Statistics
16474	Icon model does not print out Wifi and BT label	Test labels
16564	USB Device: USB stops printing and locked	USB Device
16780	"user" and "admin" able to change virtual com PID	USB Device
16799	VCom Disconnect/Re-connect USB Cable, console crash	USB Device
16800	Virtual COM: Reboot printer, can't communicate again	USB Device
16801	VCOM: PD43c printer after SVCD install, name wrong	USB Device
16813	Airline: FP crash after breaking Airline app	USB Device
16818	Virtual COM: Zmodem is NOT able to work	USB Device
16345	C# USBHost does not support writing to device	USB Host
15340	Information zone display text be cut off. (Degrade)	User Interface
15598	focus should default to checkmark button on wizard complete	User Interface
16273	Special characters can't be saved in System Name	User interface
16503	UI:Progress bar stuck at end point short while when power up	User Interface
16585	Communication icon blink must be more distinct	User Interface
16787	UI response delay when printer power up with ip address	User Interface
16821	DP mode after print, "Printing" still exist (Degrade)	User Interface
16416	Change "Quantity" to "Print Quantity" for INPrint	Web Page

Issue ID	Summary Description	Subsystem
16435	Save button can be clicked without input Profile name	Web Page
16462	The profile name with space character cannot be saved	Web Page
16463	Profile cannot be deleted with special character “#”.	Web Page
16486	C# Drawing.Render() is not updating image buffer on web page	Web Page
16654	Channel selection display not according to the EEPROM config	Web Page
16670	WebPage: Icon model can't display image at home page	Web Page
16698	Activate Profile not working	Web Page
15919	PM43 cannot connect to AP with AES/TKIP in AES	Wireless
16441	Wifi: CCX Certification - roaming issue	Wireless
16508	Wifi: WIFI region new issue	Wireless
16514	Wizard fails to connect to AP in WPA/WPA2(TKIP+AES) in PSK N/Ws	Wireless
16527	Wizard fails to connect to AP in WPA/WPA2(TKIP+AES) Enterprise n/w	Wireless
16529	Wifi: Allion CCX Pre-test Failed issues	Wireless
16562	Printer can't connect when using "802.1x+CCKM" auth key mgmt	Wireless
16612	Wifi: CCX Certification - roaming issue	Wireless
16618	Wireless restarts when Ethernet IP address scheme changes	Wireless
16656	Printer not showing Dup IP error in Wi-Fi Manual IP Scheme	Wireless
16674	Setup string WPA/TKIP is not supported after WiFi fixes	Wireless
16746	Wifi Cert : 5.2.51 Disallow TKIP with HT Rates Test	Wireless
16752	Wifi: Allion Wi-Fi Pre-test2 Fail issue	Wireless
16776	IPL Setup string WPA/TKIP is not supported after WiFi fixes	Wireless
16849	Wifi: Allion CCX 8 hours failed issue	Wireless
16853	CCX pre-test failed issue for Beacon Table	Wireless
16854	CCX pre-test failed issue for 8 hours stress test	Wireless

Resolved Customer Problem Reports

Number	description
140414-000009	IPL:Barcode field data does not increment
140411-000014	Fixed size for Datamatrix is not supported.
140403-000114	Incorrect encoded data for PD417 in PM43
140402-000076	IPL crashes when label length used is different
140324-000147	Printset Unable to communicate with PC43 via serial 115200 7N1
140324-000141	PM43 Not printing the same output as the 3400e
140317-000123	PM43 does not print Maxicode Barcode
140317-000086	PC43T DataMatrix Barcode is not printed
140317-000039	PM43 not printing Datamatrix the correct size
140313-000005	PM43c not print in ZSIM autohunt mode
140312-000051	Image being converted in a black box shape
140312-000033	PC43 - skipping labels and incorrect print position

Number	description
140311-000136	IPL does not print the same as PM4i
140311-000006	IPL printout garble on 2nd label
140303-000153	Zsim.CFG goes to 0 byte When Input port LPR is enabled.
140226-000013	Label not stop consistently on media gap with c# app
140225-000009	RLL images not printed in Direction 2 and 4.
140224-000140	ZSIM Slash 0 is printed wrongly
140221-000133	PM43- Zmodem Protocol File Transfer Not Working
140220-000008	"<ETX>" Printed Under Some Data Field
140218-000009	Printed UDC graphics not same with PX4i
140214-000088	FP not releasing port 9200 when app has exited.
140211-000028	Scanned barcode data decoded wrongly
140209-000008	PM43 DSIM :Labels are not printed properly.
140206-000159	Incorrect Data and EAN 13 Printed
140206-000159	Wrong number of characters printed
140131-000071	<CAN> does not clear all host entered data
140131-000008	Error return after opening UART 2 (DUART)
140130-000134	IPL Does not work with Ascii null in format field
140114-000125	PM43 icon In DSIM Label are printed one over the next .
140113-000032	Maxicode not printed correctly
140113-000032	Font not Downloaded and not printed correctly
140113-000025	Label not printed after launching C# app
140113-000004	Nordic letters Æ Ø Å æ ø å printed incorrect
140109-000012	Printout Font is different in Fiji
140109-000012	PC43d not printing Image File
140108-000083	Label not printed with <ESC>j in script
140108-000050	Printout Missing Code 128 Barcode and texts
140108-000009	IPL labels not printed.
140106-000007	ZSIM ~JR command does not work
140102-000046	Incorrect H command data field Handling
131211-000006	PM43 ZSIM not printing Korean characters in ^DF & ^XF cmd
131209-000050	ZSIM is not supporting ^SF (Serialization field) Command
131209-000005	FP:Pressing Esc Key, Break Cmd Not Working
131209-000000	FP:Input from USB keyboard is not shown at LCD
131128-000017	PC43d ZSIM is not supporting ^FPR right to left printing
131114-000002	IPL: [] is observed in return of <ESC>x cmd
131113-000127	PM43-IPL-cutter not found error
131101-000010	USB stops printing after printing
131024-000015	PM43 A: Store INPUT is not working
130506-000094	CPR-PC23d – WiFi Authentication failed
120727-000023	DSim not able to handle many sets of PCX graphics properly

Version x10.06.008523 Key Features

New Functionality

- Direct Protocol and Fingerprint enhancements:
 - Add support for DP bi-directional commands ^r and ^q
 - Make RUN "rz -r" command work the same as legacy implementation
 - DP Line analyzer enhancement to capture graphic data
 - Enable batch-mode in XML-enabled printing

- C# enhancements:
 - Support for cutter

- ESim enhancements:
 - Export and import ESim configuration files via USB
 - Update relevant fonts in ESim to our new Andale Mono Bold
 - Change behavior to feed to next label on first print job after cover closed
 - Enable Line Analyzer in ESim

- IPL enhancements:
 - Export and import IPL configuration files via USB
 - Enable inter-character gap feature using Font Alias
 - Enable Line Analyzer in IPL

- DSim enhancements:
 - Add ignore command feature
 - Enable Line Analyzer in DSim

- ZSim enhancements:
 - Enable Line Analyzer in ZSim

- USB enhancements:
 - Add autostart file copy from USB drive for Smart Printing applications
 - Create "Copy all" choice in USB menu
 - Add choice to install /display folder items to USB menu
 - Enable import and apply ESim and IPL configuration files via USB at start up

- User Interface enhancements:
 - Revised PC series top toolbar design and graphics
 - Add ability to bypass the Startup Wizard
 - Add firmware version and Wi-Fi IP and MAC addresses to the on-demand test labels
 - Enable line analyzer from command line interface

- Web Page enhancements:
 - Changed printer home page layout and add useful information
 - Ability to enable and disable Line Analyzer with link to file from the printer web page
 - Ability to import and export settings and profiles

- Ability to enter print quantity in INprint
- Wireless 802.11 enhancements:
 - Conformance to FCC Wi-Fi restrictions for channels 12 and 13

Improved Functionality

Issue ID	Summary Description	Subsystem
12883	UPC SCC barcode, the box printout is not correct	Barcodes
13324	'd4' and 'd5' parameter are not working as expected	Barcodes
13623	"I" command cannot work with "i2" on barcodes	Barcodes
13646	Field select command (<ESC>Fn) is not working w/ barcode	Barcodes
13701	Barcode human readable printout is not the same as PD42	Barcodes
13981	Mode 1 for code39 doesn't work.	Barcodes
13982	Mode 2,5,8 for code39 barcode in IPL doesn't work	Barcodes
14004	Code 2of5 barcode print out are same for 2 modes.	Barcodes
14029	Code 11 mode 1 printout cannot be scanned.	Barcodes
14030	Code 11 mode 1,2,3 are not working as expected.	Barcodes
14037	Check character is missing in the human readable printout	Barcodes
14039	IPL: MAXICODE Mode 0 not printing any barcode.	Barcodes
14041	IPL: Maxicode Mode 0 - Only one barcode is printed.	Barcodes
14042	Check character are printed in the human readable (c7)	Barcodes
14071	Barfont wrong for UCC-128 Serial Shipping Container code	Barcodes
14106	IPL: Code 39 c0 Date Barcode wrongly printed (12/005/016).	Barcodes
14136	IPL: Barcode UPC/EAN c7, Human-read format & spacing wrong	Barcodes
14155	UCC Code128 script, Barfont text is not same as PD42	Barcodes
14168	Cannot print c4 bartype with data source set to time	Barcodes
14607	Printer will have error if barcode code 2of5 width is set >9	Barcodes
14755	INT2OF5 print no prefix zero in human readable.	Barcodes
14769	IPL: Datamatrix size and pattern different from legacy	Barcodes
14770	IPL: Datamatrix size,data and pattern different from legacy	Barcodes
14798	IPL: Code128:Missing human readable	Barcodes
14805	IPL: Ean:Interpretive field set to 0 print different barcode	Barcodes
14808	IPL: ISBT128 check char cannot be disabled	Barcodes
14814	IPL: c21 barcode difference and scan data	Barcodes
14820	IPL: c20 missing human readable data	Barcodes
14823	IPL: c20 default height is not similar to legacy	Barcodes
14825	IPL: c20,6 barcode height difference	Barcodes
14922	IPL: HIBC:i2 command works similar to i1	Barcodes
14923	IPL: HIBC:i1 & i2 problem with "I" (Interpretive Field, Edit)	Barcodes
15128	Interpretive edit command for f,r and b is not working	Barcodes
15237	IPL: c17 <SUB><RS><SUB><EOT> as data will not work	Barcodes

Issue ID	Summary Description	Subsystem
15413	IPL: c17 printout and scanned data difference	Barcodes
15435	IPL: c25:human readable is printed out differently	Barcodes
15688	IPL: c21 missing data on interpretive field	Barcodes
15693	IPL: c15 interpretive is not in correct size and position	Barcodes
15738	IPL: c7 check digit printed and shifted position	Barcodes
15749	IPL: Missing human readable data for <ESC>c command	Barcodes
15761	C#: CODE128 FNC1 cannot be printed	Barcodes
15823	IPL "I" command doesn't work properly on <ESC>C0	Barcodes
15830	IPL: Extra human readable getting printed in <ESC>C0 mode	Barcodes
15837	IPL: Missing human readable data in c21 bartype printing	Barcodes
16079	IPL: c15 human readable text is smaller than expected in 406dpi	Barcodes
16335	C#: app cannot render PDF417 barcode properly	Barcodes
15994	If BT not initial well, ptr auto reboot after calibration	Bluetooth
15862	C#: Range of Configuration.SetParameter.PrintSpeed is wrong.	Configuration
16120	Modified TMIPL.CFG is reverted.	Configuration
10321	Correct error code is not returned for Data count exceeded	Error Handling
13409	After send I command only, but console return UI8	Error Handling
13460	Press feed not done appears twice	Error Handling
14101	<ENQ> Not returning DC1 while Printing	Error Handling
14834	Error code 72 is not retrieved	Error Handling
14841	Buffer Now full, IPL Buffer already full- No reply	Error Handling
15082	Printer won't show "Out of ribbon" until user press feed	Error Handling
15787	Left 1 label, sent script printed 1 extra label	Error Handling
15811	Reprint label number wrong if during printing open cover	Error Handling
15885	'Print head too hot' won't dismiss after leave it long time	Error Handling
16270	Line Analyzer cannot go back to disable after unplug USB	Error Handling
16083	format c: not working for .resrc file	File System
14586	After "Restore Defaults", UFSVER return "Unknown ver"	Firmware Upgrade
16035	Firmware Upgrade fails using PrintSet on PC series	Firmware Upgrade
15027	ESim: Font Aliasing not working	Fonts
15449	The first dot row missing for IPLFONTx printing	Fonts
15752	Different char size when using 406dpi TPH	Fonts
15894	IPL font alias file limit is 16 entries only	Fonts
15985	IPL user-defined character doesn't work anymore	Fonts
16082	Cannot install ATF fonts from a UFF file	Fonts
16107	(DSim) PM43 - Font too slim	Fonts
16127	IPL UDF and UDC don't work anymore	Fonts
16212	Airline fonts not printed after successful loaded to printer	Fonts
15125	Intel hex logo crash	Images

Issue ID	Summary Description	Subsystem
15770	Unexpected termination while processing PCX logo	Images
15993	IPL: UDC graphic name written into LOGO file is not correct	Images
16349	IPL graphics problem (when using <ESC>g1 command)	Images
16350	IPL graphics problem (when using IPL UDC commands)	Images
16395	Direct graphics can't be printed if using binary controlcode	Images
9797	In PF command p2 and p3 parameters are not working	Language Conformance
9820	Field Decrement is not working after value is going negative	Language Conformance
10324	Parameter p1 in PF command is taking out of range	Language Conformance
10325	BOOTP and DHCP+BOOTP protocols are not setting	Language Conformance
10626	DGM Origin Emulation command is not working	Language Conformance
10974	Configuration label not correct	Language Conformance
11812	Label retract value is not validated properly	Language Conformance
11838	"UPC E 2 digits" barcode printout not same as PD42	Language Conformance
11839	"UPC E" barcode printout not same as Standard PD42	Language Conformance
11843	"UPC A" barcode printout not same as Standard PD42	Language Conformance
12035	After GK"" delete all image, UG still list some images	Language Conformance
12712	All button freeze after send a script to printer	Language Conformance
12716	After cover open error, printout direction changed....	Language Conformance
12824	j command value can't reflect to Printer "Stop adj" value	Language Conformance
12859	After PF value, ESim perform additional formfeed	Language Conformance
13092	After cutter invoke, printout is shift about 100dots	Language Conformance
13186	as of code pages test cases, is getting printed	Language Conformance
13240	Media setting issue for different TPH under IPL	Language Conformance
13306	<SUB><SUB> command can't work	Language Conformance
13400	Slash zero Enable, reboot printer again become default	Language Conformance
13414	Installed image but display duplicate name using UG	Language Conformance
13571	Incorrect Alpha Increment	Language Conformance
13579	 Not Working same as Legacy	Language Conformance
13580	Preamble and Postamble not getting set	Language Conformance
13587	Format with Name is not transmitted	Language Conformance
13613	UI gets struck on Invalid Format	Language Conformance
13679	<ESC>Q command Not working same as Legacy	Language Conformance
13753	IPL: Error code 35 is NOT returned.	Language Conformance
13754	IPL: Error code 41 is NOT returned	Language Conformance
13803	LBL rest point , Negative three digit value is setting wrong	Language Conformance
13814	1-button printer, send script, can't print at 2nd time	Language Conformance
13877	IPL: First 2 labels printed wrongly in Customer script.	Language Conformance
13906	IPL: <SI>e1, still reprints the interrupted label.	Language Conformance
14062	IPL: <STX><ESC>Q does not show the right value as PM4i.	Language Conformance

Issue ID	Summary Description	Subsystem
14156	IPL: <FF> included in label doesn't stop label at tear bar.	Language Conformance
14164	From error, extra label getting printed after jobs resume.	Language Conformance
14332	Always return 99 error when send US or ^ee (Degrade)	Language Conformance
14421	Unable to QUIT IPL by pressing Shift+C from Keyboard	Language Conformance
14472	UG command return duplicated "Available Images"	Language Conformance
14765	Print file with spaces after the command is not printing	Language Conformance
14784	<SI>n NOT working as PD42 printer	Language Conformance
14792	IPL <SUB><CAN> doesn't work properly.	Language Conformance
14817	No default format in PM43	Language Conformance
14829	Alpha increment fails for small alphabets	Language Conformance
14831	Label retract cannot be disabled	Language Conformance
14855	IPL Unsupported Commands won't return error code 72	Language Conformance
14889	Printer freezes on invalid format number	Language Conformance
15083	IPL sensitivity and darkness value not seen on <ESC>p	Language Conformance
15089	PM43 IPL format not printing correctly	Language Conformance
15099	PC43 in ESim, positioning shifted and not same as PF8	Language Conformance
15111	Ticks issue	Language Conformance
15123	d2 field unable to take data from B0 field	Language Conformance
15162	V command with comma, printout will loss chars	Language Conformance
15184	ESim: q command can't configure width value (Degrade)	Language Conformance
15195	ESim: Counter command printed in label (Degrade)	Language Conformance
15219	<SUB><DLE> can't be printed properly.	Language Conformance
15287	Unable to retrieve printer IPv4 Mac address using "getvar"	Language Conformance
15364	IPL: Sets protocol transmit format is confusing	Language Conformance
15373	C#: The Color Structure RGB & Alpha can exceed range	Language Conformance
15464	"A" and "a" cmd can print without "DATA" designates	Language Conformance
15582	ESim: R and r command is able to specify negative value	Language Conformance
15583	ESim: R and r value can't retain after reboot	Language Conformance
15609	IPL:<ESC>C0 is retain after printer get rebooted.	Language Conformance
15674	While printing, Abort is not working (degrade)	Language Conformance
15702	Add support for bi-directional DP cmd ^q	Language Conformance
15788	Continuous media, feed 1200dots before start to print	Language Conformance
15841	C#: The default value of UI.Canvas.Text.Size is incorrect.	Language Conformance
15842	C#: The default value of UI.Canvas.Text.Point is incorrect.	Language Conformance
15847	Translate/Log Various Command Language data stream into DP	Language Conformance
15875	Increment is not happening properly	Language Conformance
15878	ESim: Continuous media to follow JF/JB as per legacy printers	Language Conformance
15880	Increment/Decrement not happening properly with Alphanumeric	Language Conformance
15882	PM43: Text field is missing when command is used	Language Conformance

Issue ID	Summary Description	Subsystem
15883	PM43: <NUL> command is printed with Barcode and Text data	Language Conformance
15909	DPL: Not printing first line	Language Conformance
15939	IPL: Missing human readable and barcodes on printout	Language Conformance
15952	IPL direct graphics mode command <ESC>g1 doesn't work	Language Conformance
15966	PM43 IPL <RS> maximum range is not same as PM4i	Language Conformance
16024	DSim: DPL: Not print out the prn file	Language Conformance
16028	a form feed before the printing for continuous media.	Language Conformance
16033	C# Drawing Render() and Export() behaving unexpectedly	Language Conformance
16043	Big user-defined graphics bitmap can't be printed properly.	Language Conformance
16055	Feed button not functional on sending invalid format	Language Conformance
16068	ESim can't printout all text in a form as compared legacy	Language Conformance
16091	V is NOT work to print form for download font (Degrade)	Language Conformance
16092	Send Var data script, then normal file can't print(Degrade)	Language Conformance
16093	width become 0 after a power cycle printer (Degrade)	Language Conformance
16100	Printer PAR: fails to detect ACK from host	Language Conformance
16308	Icon model change Input port command NOT working	Language Conformance
16336	Not able to break ZSim using cmd again	Language Conformance
16359	Printer hangs when printing graphics file (<ESC>g0 is used)	Language Conformance
16361	Big image file not printed properly (UDC command used)	Language Conformance
16365	The FEED button froze after batch printing on icon model	Language Conformance
15694	Loopback traffic long time will cause printer auto Reboot	Network Applications
16366	PM43 abruptly closes net1 connection with RST packet	Network Applications
13098	OCb or OD,Cb after batch labels, last group won't cut	Options / Accessories
15732	Motor stall again using FedEx script to print 50 labels	Options / Accessories
15765	Battery: Print speed decrease when printing 50 labels	Options / Accessories
16017	Incorrect PnP ID of PM printers for parallel connection	Parallel Com
15931	PC43 a lot slower vs Datamax E-Class in DPL/DSim	Performance / Memory
16072	Printer crash after sending print job	Performance / Memory
14498	LBLCOND 3,x NOT work as expected as PM43 printer	Print Engine
14843	LSS value always the same until print head open/ close	Print Engine
14945	Label will not stop at the tear off edge (8ips)	Print Engine
15705	PC43 "Out of media" loss 1 label compare with PM43	Print Engine
15807	Continuous media feed with 8ips, trembling while it stop	Print Engine
15808	8ips change from 6" to 1" not TESTFEED, trembling feed	Print Engine
15890	Continuous media unable to do testfeed when out of media	Print Engine
15899	Printout shift 3~4mm when Selfstrip+LTS module in used	Print Engine
15921	PC43 - First printout is truncated (Var Len Strip)	Print Engine
15965	Print Engine: HEAD(-7) and TM settings issue in proc node	Print Engine
15991	Print Engine: PC43 problem with run "testfeed"	Print Engine

Issue ID	Summary Description	Subsystem
16001	DSim: PC43 Crashes when printing at 8ips in DSIM	Print Engine
16013	Print Engine: ?HEAD(-7) won't change value after printing	Print Engine
16078	Feed media back/forth 50 times can't stop at original position	Print Engine
16085	FF is processed before the Batch printing is completed	Print Engine
16192	NOT do TESTFEED using Continuous media is able to print	Print Engine
16362	Unable to calibrate icon printer during startup	Print Engine
16075	Configure of number of RFID retries internally (new SYSVAR)	RFID
14274	Printer hardware handshaking signals not stable at power on	Serial Com
14648	Several times REBOOT, serial stuck and can't send script	Serial Com
15848	Lose image data during power up send print job	USB Device
16292	Loss data while power up send USB different print job	USB Device
16268	UI: "Copy All Files" stuck at Progress cycling screen	USB Host
11933	Inconsistent error observe at wizard (front) and back end.	User Interface
12124	If any error at Ready screen, USB menu won't auto pop up	User Interface
12425	Entry info with OK button again will Resume pause	User Interface
12528	Wifi wizard 'Select' text should be there at the top	User Interface
12755	Wifi Wizard, searched AP didn't display subtitle line text	User Interface
12773	'.' missed out in Wizards wherever vertical select options	User Interface
12798	Some sub-menu title bar contain a "wrong group" little icon	User Interface
12993	"Feed Key Access" Disable, still able to "FEED" button	User Interface
13234	No audio on pressing keys of physical key pad	User Interface
13376	Disabled BT icon gets enabled on printing job	User Interface
13415	Send GK"*" to remove image will return error msg	User Interface
13496	Out-of-box wizard can select non-exist day	User Interface
13504	RFID+Network printer after default "Idle Info" default wrong	User Interface
13549	SIP: Underscore character did not appear	User Interface
14139	IPL: UI can't display "Printer is Rebooting" err message	User Interface
14247	UI display issue when the option item data is too long	User Interface
14327	Ribbon Low error is not cleared instantly	User Interface
14513	"Info" icon not work after first power recycle	User Interface
14515	ESim : "Info" icon not work after first power recycle	User Interface
14518	Menu Access with PIN ->Wireless wiz will display garbage	User Interface
14534	Menu Access with PIN, UI auto timeout in Wi-Fi wizard	User Interface
14536	UI: Profile -> Delete -> it's title bar is no little icon	User Interface
14552	LCD text blocking when entry Menu or info icon	User Interface
14589	Recovered "Out of Ribbon", "Press FEED not done" show	User Interface
14612	Two line FP display is not cleared when an FP app exits	User Interface
14614	Console display is not changing to the new strings	User Interface
14742	Wizards NOT terminating completely	User Interface

Issue ID	Summary Description	Subsystem
14743	UI freeze in Pause animation	User Interface
14956	Non-Network printer install Network, default is System Name	User Interface
14958	UI Information on LCD after Defaults is not IPv4 address	User Interface
15034	Two form feeds after pressing Print button for 2 secs	User Interface
15124	Without "config" folder, Export Configuration is not working	User Interface
15277	Ribbon installed error - not handled in print quality wizard	User Interface
15387	PC43 - Media Calibration UI issue	User Interface
15575	Not able to "Clear screen" for previous texts	User Interface
15776	KeyPad F1,Feed Button, Touch pad F1,^ no response.	User Interface
15819	Printer UI freeze upon pressing "Programs" from menu	User Interface
15828	Calibrated wiz SLOW mode, Press FEED calibrate again	User Interface
15900	Invalid Month is displayed during the start-up wizard.	User Interface
16269	USB sub-menu, press back not back to original position	User Interface
16342	Line Analyzer show no error for unknown usb partition	User Interface
16286	Button text is not gray when disabled in Firefox	Web page
16289	IE webpage link for LA logs doesn't show correct data	Web page
16290	IE webpage back button not working as expected	Web page
16299	Default Settings, then "Save as Profile" still active	Web page
16343	No configuration information in "Manage" overview	Web page
16344	Configuration/Profile uploading without authentication?	Web page
16346	Config download, file name NOT same as UI file name	Web page
16418	Add context sensitivity help to download, upload, etc	Web page
14459	SSID configured with space is NOT getting connected to AP	Wireless 802.1x
15572	Printer not connected to Wi-Fi network with CCKM disabled	Wireless 802.1x
15920	Printer cannot connect back if AP changes cipher settings	Wireless 802.1x
16332	Region value displayed wrongly	Wireless 802.1x
16339	Wi-Fi: The printer can't set % character to the SSID	Wireless 802.1x
16411	SSID field cannot be displayed if it contains single quotes	Wireless 802.1x

Resolved Customer Problem Reports

Number	description
131127-000037	The text of 1st label is not shown in batch printing
131126-000011	Key "C" is not working
131122-000038	PM43 - SYSHEALTH and SYSHEATH\$ not working when SYSVAR(35)=1
131120-000140	DSim to support graphics file without extension and are not case sensitive
131113-000127	missing text fields
131110-000002	QRcode is not printed on PM43 using ZPLII
131108-000017	Graphics rendering is misaligned sometimes
131108-000014	No Return response for <ESC>m
131108-000012	% should not returned for <SI>d value

Number	description
131106-000154	Cutter does not forward labels to correct cutter position
131104-000090	ZSim barcodes text misplaced (Honeywell)
131104-000003	Cutter is not cut after sending script
131029-000008	PM43 Image Load to load fonts not working
131029-000007	Interleaved 2 of 5 Barcode is not printed
131029-000005	PM43 406dpi in IPL, printout is printed too big/large
131028-000008	<DC1> is not return for <STX><ENQ><ETX>
131025-000032	PM43 IPL unclear Status of the Media Sensitivity Selected
131024-000015	Timeout is not observed before printer return error
131018-000133	PM43 Font Aliasing not being applied to first printed label
131017-000004	PC43 ZSim - Add UTF-16 Support
131016-000147	ZSIM is not printing soft hyphen
131016-000002	PM43 IPL not printing text point size according to k command
131014-000031	PM43 stops printing when Chinese DP are sent at 2nd time
131011-000141	Image Load Command Not working
130930-000116	PM43 IPL, does not print the same as the PM4i
130930-000002	IPL variable data not printing
130926-000110	PM43 improper coding of code 39 with customer IPL
130925-000029	PM43 not printing all fields in the format.
130925-000016	Modified TMESIM.CFG is reverted.
130916-000114	Triangle is not printed properly
130913-000073	PM43 numeric field not decrementing
130913-000011	Printer doesn't respond <SOH> with Xon/Xoff + status disabled
130911-000112	printed pallet number is out of sequence
130910-000125	Unexpected termination after sending print job via serial
130909-000139	PM43 IPL-cutter not found error
130909-000009	Label 2 and Label 4 is not printed.
130909-000000	Previous graphics icon is not deleted.
130906-000070	entire label not printed, cutting off last part of label
130904-000167	Ribbon Installed error shown.
130903-000131	PM43-IPL black mark skips labels
130902-000025	PC43-ESim - Spacing before variables being filtered
130830-000081	PM43 Does not form feed to tear bar
130829-000144	PM43 ZSim Locks up printer when caret set to -
130829-000127	Different Printout in PC43 compared to PC41
130829-000106	PM43 Unable to print Asian fonts with IPL c60 / c57
130828-000010	PM43 and PC43 - Display stops working
130828-000009	PM43 ZSim crashed when printing over Ethernet
130821-000165	IPL: PM43 prints slower compare to PM4i
130821-000160	PM43 IPL does not print all fields
130820-000148	PM43 IPL not cutting label after feeding media

Number	description
130820-000148	PM43 sysvar(71) reports wrong distance
130812-000144	PC43 ESIM does not scale user downloaded TTF font correctly
130809-000003	Subnet mask value is 0.0.0.0 when in BOOTP only mode
130808-000156	IPL: 2 second delay in between print jobs on multi printing
130805-000111	IPL printout is different from legacy printer
130802-000011	PM43 PrintBox different from PF4
130801-000000	DSIM Code 128 barcode bigger original size
130719-000013	IPL user-defined chars printing much slower than legacy printer
130717-000020	PC43d hangs up when receiving DP scripts via Bluetooth
130715-000006	IPL: Fail to print a label with <ESC>I1 command
130710-000077	IPL: PM43 cannot print customer graphics
130709-000038	Printer stops printing, serial port is locked
130704-000038	DSIM makes PC43d (one button model) hang up.
130703-000009	IPL not printing correctly with joined Program Mode commands
130701-000051	PM43 - ZSim crashes
130701-000008	DSIM: PM43 DSIM barcode printed smaller
130628-000012	Datamatrix barcode is not getting printed
130625-000156	IPL: Extra blank label on PC43d using customer scripts
130618-000007	~DY command does not work
130617-000013	PC43 cutter position error
130610-000049	PC43 - erratic printing with IPL
130605-000009	PC43t IPL in std protocol not respond to all commands
130529-000004	PC43-ESim - Spacing before variables being filtered
130527-000034	PM43 Not Printing the Maxicode barcode in ZSim
130520-000180	CPR-PC43-DataMatrix 2D Barcode is printed w/ human readable
130520-000038	PC43 not adding check digit to Code 39 barcode
130520-000038	Font changed and data fields overrun onto others (Degrade)
130513-000056	ZSIM does not print fields when using format command ^DF &^XF
130510-000070	IPL Not adding check digit to Code 39 barcode
130510-000070	IPL Code39 check digit missing in the interpretive field
130507-000178	PC43T cannot print PDF417 correctly when PF8T is OK
130506-000094	Certinstall.sh unable to install CER certificate
130503-000027	PC43t PDF417 barcode missing
130429-000121	IPL:<SI>L command doubles its value in 406dpi
130428-000006	IPL <CR>/<LF> pre/postamble chars not retained after reboot
130428-000006	IPL auto transmits not send when commands typed
130428-000006	Problems for pre/post amble
130426-000005	PC43T print location differs from PF8T
130426-000005	j command new implementations, and ignore command
130425-000107	IPL aliasing font base point size change without file entry
130425-000107	PM43 prints in 2.5 mil when ESC>C is used without parameter

Number	description
130412-000023	PC43 ESim not cutting in the right position
130412-000023	PC43: start print position different from PM printer by 1mm
130410-000000	DSIM Q command does not print any label for input Q0000
130405-000047	Slow printing in IPL
130405-000047	PM43 Random Out of Ribbon Error using 2 x 1 labels
130401-000064	Human-readable check digit missing for CODE39 barcode
130401-000064	Add Format 0 as the default format
130401-000064	PM43 IPL-Does not print all of the fields
120619-000131	PC43-Zsim-fonts not the same as Zebra

Version x10.05.007902 Key Features

New Functionality

- Intermec C# for Printers, the next-generation Smart Printing platform for creating in-printer applications written in C#. A partial list of features includes:
 - Control the touch display of PMx3-series printers
 - Unlimited graphics and text control of the color LCD of all supported printers
 - Control the keypad of all supported printers
 - Support for USB HID peripherals such as keyboards, scanners and weight scales
 - Support for network, Bluetooth and other connectivity methods
 - An internal SQLite database for fast data storage and retrieval
 - Remote debugging through the provided Mono Tools server and optional Mono Tools add-in for Microsoft Visual Studio 2008 and above

Programming with C# requires the Smart Printing Developer Resource Kit which may be downloaded from the Intermec Developer center at <http://www.intermec.com/developer>.

- Support for RFID commands in IPL:

Command	Description
<ESC>J	RFID Tag, Read
<ESC>O	Options Selected, Transmit
<S>J	RFID Parameters Set
<SI>K	RFID Tag Void Text, Set
a	RFID Tag Field Setup
d	Field Data, Define Source
n	RFID Tag Protect
Q	RFID Tag Write Field, Create or Edit

The IPL RFID feature also includes the following functions:

- Error handling/status responses 1320 to 1329, ENQ responses and Std and XON/XOFF protocols
 - UI updates for RFID errors/states
 - Tag alignment and print engine behavior similar to legacy printers
- Print, on-demand, the IP address of an Icon version printer after the boot up sequence is complete. The procedure is:
 1. Wait for the printer to complete its power-up sequence, then wait approximately 30 seconds after the RWT LED goes steady blue
 2. Press and hold the feed button for more than 1 second
 - The printer will test feed
 3. Continue to hold the feed button
 - The printer will begin to print the configuration labels
 4. Release the button and the printer will complete printing the configuration labels
 5. If the IP address shows 0.0.0.0, wait 10 seconds and repeat the procedure until a valid IP address appears
 - Select a command language on an icon printer by holding the print/feed button at power-on and releasing it once the desired command language name is printed on the label. The procedure is:

1. Power on the printer
 - The printer will light all the LED icons and begin to turn them off one at a time.
2. When there are at least two LED icons still lit press and hold the Print/Feed button. The printer will:
 - calibrate media
 - print configuration labels
 - print a label showing a command language every three seconds, cycling through every resident language in the printer.
3. Release the print/feed button when the desired command language name is printed
4. The printer will configure itself for the desired command language and the RtW light will turn on when the printer is in a Ready state.

Improved Functionality

Issue ID	Summary Description	Subsystem
13096.7	EAN/UCC Barmag error handling, not same as PD42	Barcodes
13102.7	Some PDF417 barcode printout still not same as PD42	Barcodes
13694.1	PDF417 Barcode height not same as PD42/PC41 result	Barcodes
13708.1	More characters and overlapping observed on c21	Barcodes
13980.16	Comma and (₎) as data doesn't work in barcodes	Barcodes
14001.9	PM43 QRcode printed out differently from legacy printer	Barcodes
14006.11	JIS-ITF barc with less than 6 data length has problem.	Barcodes
14009.11	Variable data with d0 only does not work in barcode.	Barcodes
14035.11	CODE128 cannot ignore parentheses and spaces.	Barcodes
14036.11	code128 shifting func is not working in IPL	Barcodes
14040.19	IPL: <SUB>, PM43 prints .	Barcodes
14043.12	IPL: POSTNET barcode, human-readable printed in PM43.	Barcodes
14044.1	Supplemental data is not working on c7 barcode.	Barcodes
14045.9	c7 barcode not getting printed with supplemental data	Barcodes
14046.1	IPL: Error correction NOT working in PM43 barcodes.	Barcodes
14048.15	IPL: Maxicode mode 2/3 doesn't print if postal code is< 6.	Barcodes
14050.1	IPL: Maxicode - mode 5 (EEC) barcode wrongly printed.	Barcodes
14056.1	Cannot print barcode EAN13 if host enters check digit.	Barcodes
14111.8	IPL:Code 49 c10 w8,PM43 barcode size slightly smaller.	Barcodes
14113.6	IPL: Maxicode c14,5;d4,1 NOT printing the date.	Barcodes
14117.7	IPL: JIS-TIF c15, printed barcode length greater PM4i.	Barcodes
14119.7	IPL: JIS-TIF c15 i0, Human-Readable NOT getting printed.	Barcodes
14121.6	IPL: JIS-TIF c15 d0, barcode printed wrongly.	Barcodes
14124.4	IPL: QRcode c18 d0, Barcode size is smaller than legacy printer	Barcodes
14127.5	IPL: Barcode PLANET c22, PM43 printing human-readable.	Barcodes
14128.8	IPL: Barcode AZTEC c23, PM43 printing human-readable.	Barcodes
14129.5	IPL: Barcode AZTEC c23 d0,20 PM43 smaller than PM4i.	Barcodes
14137.5	IPL: Barcode UPC/EAN c7 human-read no diff when "w" value	Barcodes
14143.6	IPL: EAN/UCC c21 d0,50-Barcode height is slightly > PF/PM/PX.	Barcodes
14146.6	IPL: Code 16K w, barcode width different from legacy printer.	Barcodes

Issue ID	Summary Description	Subsystem
14194.9	BARFONT size is different when compare with PD42 printer	Barcodes
14800.6	IPL: UCC-128 fail to encode correctly on some combinations	Barcodes
14803.5	IPL: Ean:Barcode height and human readable difference	Barcodes
14804.7	IPL: Ean:Incorrect barcode pattern and scan data	Barcodes
14809.8	IPL: ISBT128 human readable text scaling is not working	Barcodes
14827.4	IPL: JIS-ITF difference in barcode and scan data	Barcodes
14837.5	IPL: c12 barcode and scan data difference	Barcodes
14839.5	IPL: c14 default parameters printed out diff pattern barcode	Barcodes
14840.6	IPL: c19: Unable to print MicroPDF417 barcodes	Barcodes
14879.1	IPL: Cert label printout remaining issues	Barcodes
14913.5	IPL: In command affects the next barcode printing,	Barcodes
14920.8	Wrong characters in barcode human readable	Barcodes
14933.6	IPL: Aztec prints barcode human readable data.	Barcodes
14934.7	IPL: c15 bar width command cannot work properly	Barcodes
14938.1	PM43c IPL Maxicode not printing	Barcodes
15002.1	EAN8, 13 and their add-on barcodes position wrong	Barcodes
15003.6	EAN13 2digits and 5digits overlapping when rotate	Barcodes
15007.6	EAN UCC barcode overlapping printout issues	Barcodes
15008.8	The human readable font have 2 different styling	Barcodes
15009.5	ESim: PDF417 barcode printout issues	Barcodes
15012.5	UCC EAN 128 rotation printout length shorter than PD42	Barcodes
15021.6	UPC-A, E and add-on barcodes positioning different	Barcodes
15024.5	UPC SCC looks different of length/pattern with PD42 printer	Barcodes
15048.8	PM43c Failing to print Maxicode barcode	Barcodes
15078.8	PM43-IPL-Text location incorrect	Barcodes
15080.6	<DLE><DLE> as data will reboot printer	Barcodes
15090.8	Missing data in human readable for i2 option	Barcodes
15225.12	IPL: c1 human readable overlaps barcode	Barcodes
15234.1	IPL: c7 human readable size and positioning difference	Barcodes
15235.5	IPL: c14 barcode and scan data difference	Barcodes
15236.8	IPL: c9 barcode and scan data difference	Barcodes
15238.6	IPL: c19: Missing comma in barcode data	Barcodes
15241.7	PM43 code39 interpretive not printed in right direction	Barcodes
15242.1	PM43-IPL-EAN13 Barcode height incorrect	Barcodes
15254.8	IPL: c4:Fail to print barcode correctly with i2 and big l	Barcodes
15325.5	IPL: EAN13 barcode missing in 400dpi printing	Barcodes
15336.6	IPL: c7 cannot cannot ignore interpretive field values.	Barcodes
15411.9	IPL Fiji PDF417 barcode error correction unable to set	Barcodes
15505.7	IPL: c15 magnification level "m" is not working.	Barcodes
15538.1	HIBC Incorrect barcode printout and scan data	Barcodes

Issue ID	Summary Description	Subsystem
15595.2	IPL: Incorrect printout for command Field Select	Barcodes
15691.1	IPL: c15 with var data will print incorrect barcode	Barcodes
15704.8	IPL: c15 incorrect border size barc on 300 & 400dpi	Barcodes
15710.1	IPL: 406dpi print smaller and shifted position	Barcodes
15771.9	IPL 406dpi barcode human readable missing	Barcodes
14275.1	PFFS: uartx configuration files NOT saved	Configuration
14623.6	Wrong printer model name for China model	Configuration
14967.6	Factory Issue: Intermittent configuration change issue	Configuration
15066.9	PC23d - RTC changes day at 08.00 not 24.00	Configuration
15180.12	Xstart Setup problem	Configuration
15343.8	IPL script has 't1(Enable self-strip) but it doesn't work	Configuration
15403.6	IPL: <SI>t config value is lost when printer rebooted	Configuration
15404.6	IPL: <SI>t config parameter value accept invalid ranged	Configuration
15409.7	PC43 - TTR print should use TT as default print method	Configuration
15574.7	Static IP Addr to remain after IP conflict and reboot	Configuration
13827.6	2"DT (203/300dpi) send Driver Test Page, printout shifted	Device Management
13847.6	Latest Driver can't install China model (PC43tc) printer	Device Management
14140.7	Interdriver 7.2.3 generates 833 dots for 2 inch media width	Device Management
14630.14	Folder upgrade several printers NOT possible to upgrade	Device Management
14936.11	Add UFF support for InstallFiles HCD command	Device Management
15138.14	SS:Type is shown as 'Unknown-Model' for PM Seriesc Printer	Device Management
15139.1	SS:Image shown for PM Seriesc printer is that of PD42 Printer	Device Management
15140.1	SS: Bundle for FWUpgrade Not listed in SS for PM Series	Device Management
15186.8	SS: Unable to Upgrade PM Seriesc via Firmware bundle	Device Management
13408.8	When form stored have error, need to reboot to resume	Error Handling
13408.8	When form stored have error, need to reboot to resume	Error Handling
14940.2	Label not reprinted after errors	Error Handling
15187.12	ZSim: Empty labels feedout after resuming printing	Error Handling
15588.7	ESim: Media error when gap is at sensor	Error Handling
15615.9	IPL: Test feed Not Done err cannot be resolved	Error Handling
15633.7	IPL: Error keeps appearing after testfeed	Error Handling
15649.6	Enabling LTS, cannot access the menu (Degarde)	Error Handling
15020.12	Check printer's family compatibility for Firmware Upgrade	Firmware Upgrade
13916.1	IPLFONTx printing wrongly when using DIR 4 and MAG	Fonts
13916.13	IPLFONTx printing wrongly when using DIR 4 and MAG	Fonts
14507.7	Font size of PC43d 203 DPI not match PF8 and PC4 print	Fonts
14807.9	DSim Font print issues at 400 dpi	Fonts
14932.9	The numeric data is not aligned with the graphic image.	Fonts
14954.8	ZSim: Font looks different for PM43 compared to PM4i	Fonts
15011.9	Not printing Greek characters with DSim 6.02	Fonts

Issue ID	Summary Description	Subsystem
15036.7	User-defined bitmap font can't replace resident font alias	Fonts
15037.12	User-defined font printout is different from PF/PM/PX printer	Fonts
15098.1	PC43 ESIM font size not the same as on PF8 (Positioning)	Fonts
15120.2	ESim legacy PF8 Thai font support not working with Fiji	Fonts
15133.9	Cannot install ATF fonts from a UFF file	Fonts
15141.1	ATF fonts corrupt at power on	Fonts
15198.11	IPL-Font size incorrect	Fonts
15228.13	IPL invert printing issue on field direction 3	Fonts
15264.6	Printer crashes when print codepage 1250 using IPLFONT0	Fonts
15306.1	Airline bitmap font printout is different from PF/PM/PX	Fonts
15307.6	FP "align" command affects Airline bitmap font print quality	Fonts
15346.8	Font aliasing doesn't override printer fonts	Fonts
15408.8	ZSim: Line spacing in ZPLII ^FB command is too small.	Fonts
15443.6	Character size too big when using 300dpi TPH	Fonts
15444.2	H0 and H1 text different printouts when using 300dpi TPH	Fonts
15445.7	c0 and c70 character size different when using 203dpi TPH	Fonts
15450.8	Poor quality for three new (updated) fonts	Fonts
15499.8	Airline fonts printouts are different from Legacy printer	Fonts
15607.5	ICGAP in DIR2 on certain ATF fonts different from legacy printer	Fonts
15610.7	Airline bitmap problem when using mag 1,2 and mag 2,2	Fonts
15679.7	Characters size becomes bigger (compared to MR5 Beta 2.1)	Fonts
15690.8	Double bytes font printouts are different from MR5 beta 2	Fonts
15720.1	Character becomes bigger	Fonts
10413.23	Need to read out the size of the image buffer.	Images
14716.8	PC43 GW graphics field default direction	Images
15044.1	PM43 STORE IMAGE fails in Fingerprint	Images
15097.1	PC43 ESIM GM command to load PCX image does not work	Images
12091.1	ESim wrong barcode data, printer only move 1 dot	Language Conformance
12437.14	If RFID enabled, "Calibration" is not able to found media	Language Conformance
12858.8	"ZB" is not working for batch print again	Language Conformance
12956.8	ESim: Wrong error recovery when only send P command	Language Conformance
13097.9	Out-of-box send script to change width, printout wrong	Language Conformance
13717.12	FEED button NOT sensed in FP application.	Language Conformance
13730.9	InterDriver(PD42 IPL) send Test page to PC Series, can't print	Language Conformance
13849.2	IPL: Barcode NOT printed for Customer label (Ingram Micro).	Language Conformance
14235.14	DLL/PAR: "Bad file descriptor" err thrown when open/close.	Language Conformance
14485.8	Wrong error recovery when send # command	Language Conformance
14488.11	Counter command can't printout correctly	Language Conformance
14597.7	p2 parameter in Q cmd can't set as Continuous media	Language Conformance
14733.1	PC43 ESim continuous media Q0,0 behavior not same as PF8	Language Conformance

Issue ID	Summary Description	Subsystem
14740.2	PC43 FORMS deletion/creation issues	Language Conformance
14744.7	Graphics g0 not printing	Language Conformance
14745.6	ESim does not handle <CR> in barcode data	Language Conformance
14746.1	Memory and graphic transmit not working properly	Language Conformance
14753.9	Variable data empty lines not incrementing count, no printout	Language Conformance
14754.7	NASCD with empty string generates error	Language Conformance
14776.8	LED command reports error	Language Conformance
14777.7	IPL file containing spaces is not parsed correctly	Language Conformance
14788.9	PORTIN command replies with additional data	Language Conformance
14799.6	Text not printed if mixed static data and empty variables	Language Conformance
14861.8	ZSim not handling SN command (serialization) properly	Language Conformance
14896.11	ZSim: Text data is overlapping and not aligned properly	Language Conformance
14949.2	FP/DP: Intel hex logo image issue	Language Conformance
14952.1	IPL - Reply wrong status when <ENQ> is typed in manually	Language Conformance
14955.8	<SUB> not passing control chars as data when used as hex	Language Conformance
14976.8	ESim: file not stored with GG, lines prints diagonally	Language Conformance
14977.13	Diagonal line prints in wrong direction	Language Conformance
14987.1	PC43 ESIM label will not stop at the tear off edge	Language Conformance
15035.1	PM43-IPL will not print whole label	Language Conformance
15046.8	IPL - Format is reset after <ETB>	Language Conformance
15065.2	ESim: Every second label rotated 180 degrees	Language Conformance
15079.8	IPL <ESC>.x command is not working.	Language Conformance
15081.6	<ESC>Fn parsing missing fields	Language Conformance
15118.7	B0,I0 fields not printing interpretive with correct size	Language Conformance
15126.7	Y pos adjust parameter in the misc. setting does not work	Language Conformance
15136.2	PC43 ESim not printing TrueType Font with a comma	Language Conformance
15143.9	ESim script with space chars before commands not printing	Language Conformance
15149.9	PM43 (Escape) no status resp (std protocol) in IPL READY state	Language Conformance
15177.8	Q command can't config to GAP media.	Language Conformance
15183.8	PC43 ZSIM does not accept ^bcr command in lower case	Language Conformance
15188.14	ZSIM Some Graphic images are not printing	Language Conformance
15197.1	ZSIM: Printer hang up on continuous media printing.	Language Conformance
15215.11	On break 0 does not work	Language Conformance
15224.7	IPL prints some garbage when no <CAN> command is used	Language Conformance
15247.2	PC43t (Videoton) P3 parameter of Q command does not work	Language Conformance
15283.1	eR command can't return correct Character Control	Language Conformance
15285.8	SA command is not working	Language Conformance
15286.8	Form Store script, then input text, nothing printout	Language Conformance
15327.9	barfont mag will be affected by previous mag value	Language Conformance
15337.2	Bi-directional commands for DP not fully working	Language Conformance

Issue ID	Summary Description	Subsystem
15345.9	PC43 ESim - JF without j gives incorrect media position	Language Conformance
15381.7	Media stop wrong when press Feed with j value	Language Conformance
15385.6	IPL: Missing information in specs and ipl ref manual	Language Conformance
15436.1	Bi-directional cmds under Pause mode NOT working	Language Conformance
15452.7	<STX><ESC>.x, <ETX> issue	Language Conformance
15454.1	ESIM: Missing field in printout due to extra space in "A"	Language Conformance
15486.1	PC43t: IPL can't load format using non printable form	Language Conformance
15547.1	Fiji IPL not changing top of form config in 5mil increments	Language Conformance
15599.1	IPL ESC>C default not correct for 406 dpi TPH installed	Language Conformance
14254.1	Strings Not Translated for Create profile	Localization
14309.9	UI "wizard" icon can't display Multi-language string	Localization
14504.9	PC23-IPL printers unreachable on network	Network Applications
14516.1	Loopback cause Network traffic & printer hang and reboot	Network Applications
14547.26	NET1: open net1: doesn't work on wireless interface.	Network Applications
14738.9	PM43 IPL stops printing batch job after 40 printed labels	Network Applications
14787.2	PM43 - Open Net 1 Error 1018, Bad File Descriptor	Network Applications
15108.2	PC43_Problems using Ethernet and WiFi in the same printer	Network Applications
14728.1	RS485: Inconsistent results in full and half duplex results.	Options/Accessories
15313.1	Parallel port doesn't work properly	Parallel Com
14234.13	DLL/PAR: FP CPU utilization remains >70% after open/close	Performance/Memory
14237.13	DLL/PAR: Reboot takes 1 min 6 seconds for this case.	Performance/Memory
14737.1	ZSim poor performance over net1	Performance/Memory
15071.2	PC43t slow printing subsequent labels compared to PF8t	Performance/Memory
15134.17	Printer sometimes gets stuck at power on.	Performance/Memory
15134.2	Printer sometimes gets stuck at power on.	Performance/Memory
15146.9	PM43 FP locks up but printer is functional at Linux level	Performance/Memory
15280.7	Boot up time severe degrade	Performance/Memory
13047.33	PM43 performance is not good on higher print speed.	Print Engine
14150.11	Help to speed up LTS positioning	Print Engine
14179.7	4mm length GAP media can't "Precisely" stop at Tear Bar	Print Engine
14545.9	RFID printer stuck under DP with "Testfeed not done" err	Print Engine
14553.7	InterDriver send DT job, not display "Ribbon Installed"	Print Engine
14560.8	8ips at 4" printer (PC43t/PC43d) printout scrunched	Print Engine
14605.6	Run command Setslip is NOT work at PC Series printers	Print Engine
14619.6	Fiji ESim position offset and resident font not being bold	Print Engine
14649.7	Negative FF value then print script, printout scrunched	Print Engine
14652.9	: "Out of Media" using BM media	Print Engine
14747.8	Image not center-tracked on PC23 200dpi printer	Print Engine
14748.7	"Test Feed Failed" error while Connect Ethernet cable	Print Engine
14750.1	IPL empty image buffer print command not feeding label	Print Engine

Issue ID	Summary Description	Subsystem
14865.6	Media does not align to tear bar when pressing feed	Print Engine
14887.5	Print Engine:6mm gap media printing and sysvar (28) issue	Print Engine
14939.5	Print Engine: "Out of Media" error for media with Hole/Notch	Print Engine
15058.6	Small label in SLOW test mode feed more labels out	Print Engine
15152.1	printout different as compared to 3240.	Print Engine
15176.6	Print Engine: Printer reboot after printfeed.	Print Engine
15181.6	PM43 IPL Small label with gap on LSS, printing not starting	Print Engine
15203.7	PM Seriesc motor stall at 300 mm/s	Print Engine
15212.1	Printout is cut when stop adjust is set to negative values	Print Engine
15218.6	Calibration for 4x6" GAP result as 2400dots	Print Engine
15226.8	8ips batch printing with short length media, can't pause	Print Engine
15239.1	PowerUp entry Calibration mode, always calibrate FAILED	Print Engine
15244.9	TESTFEED 100, PC printer walk as SLOW mode calibration.	Print Engine
15245.6	STARTADJ,9999 printer hang or Feed 1 label	Print Engine
15246.6	Battery connected to print 50 labels, Motor stall	Print Engine
15261.6	Printer hang up with specified Start/Stop adj value	Print Engine
15309.7	10mm media with certain settings, "Next Label Not Found"	Print Engine
15354.6	10% battery capacity, batch printing happen auto reboot	Print Engine
15356.7	3mm media Open/Close Cover send a script, printer hang	Print Engine
15380.2	Need a way to see if media loaded	Print Engine
15383.8	PC43T print position inconsistent	Print Engine
15458.6	Printer hang up with specified Start/Stop adj printing again	Print Engine
15501.6	"cat /proc/printer/sensor" get the wrong sensor infor	Print Engine
15504.6	Test Label using Continuous Var len, print a long distance	Print Engine
15526.6	RFID enable, Media Calibration wizard always 24xx dots	Print Engine
15529.6	Continuous Var Len printout still NOT same as PM43 ptr	Print Engine
15530.6	Continuous media take longer time to do FF	Print Engine
15567.9	PC23/43d/t does not print image buffer on multiple labels	Print Engine
15570.8	Print Engine: 'Out of ribbon' happen again	Print Engine
15587.8	PM43 print quality issue	Print Engine
15602.6	Media error when gap is at sensor before/after a print job	Print Engine
15618.6	SLOW mode calibration with 1" media, 8ips feeding trembling	Print Engine
15619.6	Testfeed100 done, FF but next label not found error happen	Print Engine
15717.6	Slow mode calibration, happen Next Label Not found	Print Engine
15718.6	SLOW mode calibration NOT able to detect BM media	Print Engine
15764.1	Print Engine: FORMFEED vary 20dots from value set in script	Print Engine
15766.8	Print Engine: Scrunch printout printed for ruler test label	Print Engine
9793.25	Tag identification and alignment is not done after head lift	RFID
9842.2	Writing variable data in RFID is not working.	RFID
9849.27	Tag protect is not working in IPL	RFID

Issue ID	Summary Description	Subsystem
10414.13	Need to be able to set the RFID compaction method per IOD.	RFID
10856.23	IPL Tagadjust distance is not same with PF/PM/PX	RFID
11310.18	RFID media will not go back to its proper position.	RFID
11648.16	RFID tag not found can't generate if tag position incorrect	RFID
12360.9	No RFID error dialog on UI for RFID related errors.	RFID
13318.11	VOID labels printed after unlocking and writing to tags.	RFID
13319.12	PM43 is not good in transmitting RFID error statuses	RFID
15109.8	RFID: "Bad address" showed for more than 16 bytes writing	RFID
15192.7	Speed up run "tagdetection	RFID
15249.1	IPL: RFID:Data is not written to correct memory	RFID
15256.6	IPL: RFID:<ENQ> reply status is not accurate	RFID
15257.9	IPL: RFID:Fail to write to tag for other formatting	RFID
15260.7	IPL: RFID:<BEL> status reply return zero	RFID
15265.8	IPL: RFID:No RFID tag found err cannot display at UI	RFID
15268.7	IPL:RFID:Cannot pause and cancel batch printing	RFID
15294.7	RFID; Inconsistent tagread results	RFID
15302.6	RFID Access Error not happen	RFID
15441.7	IPL:RFID:LTS ON+RFID tag adjust 100 cannot print	RFID
15442.1	IPL:LTS ON + No RFID tag UI display is not correct	RFID
14313.8	Serial Com: CTS/DSR can't return correct signal	Serial Com
13659.18	Segmentation fault in functest	Shell Utilities
15347.2	PM43c doesn't send SNMP traps other than on default port 162	SNMP
14979.1	RTC: /proc/driver/rtc information incorrect	Status/Statistics
15114.1	Time\$ Returns a previous set Time format	Status/Statistics
13900.1	Test label list includes labels not supported in printer	Test Labels
15333.8	Update command language labels printing format in Icon prntr	Test Labels
15349.1	PC43: Test label printing not working	Test Labels
15457.6	Boot up with Continuous media, hard to see cmd lang label	Test Labels
12660.1	PM43c lists along with all printers instead of only PM43c	USB Device
14953.8	Printer always show 203 dpi in USB PnP string	USB Device
14973.9	Incorrect driver string for 300&400 dpi printer	USB Device
15348.9	USB device NOT able to print graphics under DP mode	USB Device
11300.2	Fingerprint crash on special character in OPEN command	User Interface
12806.13	BT wizard via info icon, focus point stay wrong position	User Interface
13544.1	Change the pop-up message to "Restore and restart?"	User Interface
13552.11	Eliminate the calibration complete screen	User Interface
13723.14	Cursor differences PF/PM/PX and PM43	User Interface
13902.21	FP console textbox omnipresent	User Interface
14245.8	UI Freezes on printing Labels from shell in Pause mode	User Interface
14266.1	Wi-Fi wizard, press "Home" ->No -> back to Menu screen	User Interface

Issue ID	Summary Description	Subsystem
14383.8	UI Hangs	User Interface
14463.8	Enter wizard via Infor, there's 1.5 sec show useless screen	User Interface
14550.9	UI two liner sometimes shows incomplete (or) overlap string	User Interface
15019.1	Running ZSim cannot enter Character Set via UI	User Interface
15074.2	PC43d - Display with cursor not handled correctly	User Interface
15095.8	PM43: does not pause with batch of labels	User Interface
15164.2	PM43: extra reprint on error / delay and blanks	User Interface
15165.15	Printer graphic customization	User Interface
15217.9	Printer doesn't come out after screen calibration	User Interface
15232.6	Icon printer change language function not working	User Interface
15282.5	UI can't back to Ready during LTS enter Pause mode	User Interface
15311.9	UI display "10 of 10" while next single print job printing	User Interface
15312.6	IPL: UI can't display "xx of 10" number when pause job	User Interface
15322.6	Ribbon low diameter value is converting twice	User Interface
15339.7	DP mode, can't display "Out of media" error	User Interface
15344.5	UI not show "Testfeed not done" when Out-of-box	User Interface
15350.9	Navigation soft key displayed in ZSim menu is not consistent	User Interface
15407.8	PM43 - Connecting WPA/TKIP when printer set to WPA2/AES	User Interface
15412.7	General menu is seen in Media	User Interface
15419.12	Wi-Fi wizard always showed "No AP found"	User Interface
15421.4	Info wizard press Back, enter Wizard again in wrong screen	User Interface
15429.1	UI Freeze on following Wizard Button in 'Out of Media' Error	User Interface
15439.7	Blank error seen on BT pairing failed (via info button)	User Interface
15440.9	Fingerprint: Two liner display corrupted	User Interface
15471.7	Start Adj rests on calibrating the Media (With Units Inch)	User Interface
15483.7	With units mm, exact values are not getting save	User Interface
15493.7	Wi-Fi wizard for "Next" icon become wireless icon	User Interface
15494.1	'Out of Media' wizard done, entry Menu request run again	User Interface
15500.1	UI show empty err msg after BT pairing failed	User Interface
15507.1	NO AP found shown 1st time after Printer with IPad Rebooted	User Interface
15612.7	LED Blink after clearing Press feed not done	User Interface
15655.1	UICORE: OK-> NOK	User Interface
14246.8	Restore Default in Webpage is slightly inconsistent	Web Page
14918.1	Unable to print format when loaded via web interface	Web Page
15290.2	Web data sent to wrong port	Web Page
13828.13	Connectivity is lost when RRM is enabled in WLC.	Wireless 802.1x
14105.7	CCX003/004 issue: the DUT roaming time is more than 125ms	Wireless 802.1x
14882.1	Wi-Fi Slow to or Never connects for Hidden SSIDs	Wireless 802.1x
15137.9	Incomplete XML answer message	XML

Resolved Customer Problem Reports

Number	description
130516-000164	PM43-400DPI-IPL-Defaluts to 5 mil printing, Should be 2.5mil
130515-000009	PC43T printer reports out of ribbon when a small label retract is used
130514-000041	ESim: Media error when gap is at sensor before/after a print job
130429-000121	PM43-400DPI-IPL-top of form changes in 2.5 mil increments
130424-000154	PC43t does not allow label template to span multiple labels
130410-000011	PC43 ESIM missing field from printout due to extra spacing in "A" command
130409-000004	Unable to install virtual com driver for PC43tc printer
130329-000039	PC43t: can't load format when using non printable IPL
130328-000131	PM43 Not printing PDF 417 error correction level correctly.
130327-000011	PC43t Test label printing not working
130327-000011	PC43 - TTR print should use TT as default print method
130327-000011	PC43: Test label printing not working
130326-000011	PC43T does not support Direct Protocol with Bi-directional commands
130325-000005	PC43T print position inconsistent
130320-000086	IPL script has 't1(Enable self-strip) but it doesn't work
130313-000008	PM43C will not connect to IPAS on port 9080
130313-000008	PM43c doesn't send SNMP traps other than on default port 162
130311-000047	Media stop wrong when press Feed with j value
130308-000009	PC43t P3 parameter of Q command does not work
130306-000165	PM43-IPL-EAN13 Barcode height incorrect
130227-000185	ENTER key on the numeric USB keyboard can't detect
130227-000153	PM43 code39 interpretive not printed in right direction
130222-000150	PM43-IPL Font size incorrect
130221-000164	iFAST: PC43 ZSIM does not accept ^bcr command in lower case
130220-000209	PM43 - Connecting WPA/TKIP when printer set to WPA2/AES
130220-000025	PM43 IPL Small label with gap on LSS, printing not starting
130214-000006	PM43 (Eskape) no status resp (std protocol) in IPL READY state
130208-000002	PC43d USB - Emptying Spooler at power up and lose data.
130207-000050	PC43 ESIM not printing TrueType Font with a comma
130207-000039	PM43 FP locks up but printer is functional at Linux level
130207-000012	Incomplete XML answer message
130207-000007	ESim script with space chars before commands not printing
130204-000113	B0,I0 fields not printing interpretive with correct size
130203-000009	ESim legacy PF8 Thai font support not working with Fiji
130202-000002	Time\$ Returns a previous set Time format
130201-000105	PM43: extra reprint on error / delay and blanks
130130-000113	RFID: "Bad address" showed for more than 16 bytes writing
130125-000050	PC43 ESIM font size not the same as on PF8 (Positioning)
130124-000091	PM43: does not pause with batch of labels
130123-000158	PC43_Problems using Ethernet and WiFi in the same printer

Number	description
130122-000168	<ESC>Fn parsing missing fields
130118-000005	PC23d - RTC changes day at 08.00 not 24.00
130117-000139	IPL: Cert label printout issues
130117-000139	PM43-IPL-Text location incorrect
130117-000060	PC43t slow printing subsequent labels compared to PF8t
130117-000054	ESim: Every second label rotated 180 degrees
130116-000023	PC43 ESIM GM command to load graphic PCX image does not work
130114-000018	PC43d - Display with cursor not handled correctly
130108-000050	PM43c Failing to print Maxicode barcode
130104-000008	PM43 STORE IMAGE fails in Fingerprint
121219-000128	IPL - Format is reset after <ETB>
121217-000076	Running ZSim cannot enter Character Set via UI
121207-000013	Not printing Greek characters with Dsim 6.02
121205-000027	ESim: file not stored with GG, lines prints diagonally
121129-000137	<SUB> not passing control chars as data when used as hex
121120-000065	Unable to print format when loaded via web interface
121115-000156	PM43-IPL will not print whole label
121113-000004	PC43 ESIM label will not stop at the tear off edge
121108-000031	PM43c IPL Maxicode not printing
121031-000175	IPL: Cert label printout issues
121024-000149	Dsim Font print issues at 400 dpi
121023-000083	PM43 - Open Net 1 Error 1018, Bad File Descriptor
121012-000139	Wi-Fi Slow to or Never connects for Hidden SSIDs
121012-000031	IPL - Reply wrong status when <ENQ> is typed in manually
121012-000031	IPL empty image buffer print command not feeding label
121012-000031	IPL empty image buffer print command not feeding label
121011-000172	Memory and graphic transmit not working properly
121011-000172	Memory and graphic transmit not working properly
121010-000113	"Test Feed Failed" error while Connect Ethernet cable
121009-000138	Graphics g0 not printing
121009-000039	ESim does not handle <CR> in barcode data
121005-000022	PC43 FORMS deletion/creation issues
121005-000021	PC43 FORMS deletion/creation issues
121001-000142	PC43 ESim continuous media Q0,0 behavior not same as PF8
121001-000142	Image not center-tracked on PC23 200dpi printer
121001-000129	PM43 IPL stops printing batch job after 40 printed labels
120928-000008	PC43 GW graphics field default direction
120918-000115	ZSim poor performance over net1
120910-000077	"Out of Media" using BM media
120830-000137	Label not reprinted after errors
120816-000031	Fiji ESIm position offset and resident font not being bold

Release Notes – Printer Firmware Version 12.1

Number	description
120808-000117	8ips at 4" printer (PC43t/PC43d) printout scrunched
120804-000001	8ips at 4" printer (PC43t/PC43d) printout scrunched
120801-000166	PC23-IPL printers unreachable on network
120724-000067	Font size of PC43d 203 DPI not match PF8 and PC4 print
120426-000013	InterDriver 7.2.3 generates 833 dots for 2 inch media width

Version x10.04.007069 Key Features

New Functionality

- Page Editing/Page Mode commands in IPL

Command	Description
Sn	Page, Create, Edit, Delete
Mp,n	Format Position in Page, Assign.
mp	Format Position from Page, Delete
On,m	Format Offset Within a Page, Define
qn	Format Direction in a Page, Define
en,m1,m2	Page Format Data Source, Define

- IPL status response protocols for XON/XOFF with status
- IPL enable/disable Auto-transmit 1, 2 or 3

Improved Functionality

Issue ID	Summary Description	Subsystem
14107.9	Code 39 c0 r0 bar code is printed longer than PM4i	Bar codes
14108.1	Code 39 c0 r3 bar code is printed shorter than PM4i	Bar codes
14130.6	I2OF5 c2 r0 r3 barcode has a different length than PM4i	Bar codes
14508.9	Code 39 bar code and Emulation mode	Bar codes
14577.1	Bar code ratio is incorrect	Bar codes
14590.9	Code128 width is wrong for w1	Bar codes
14610.9	Static data before/after counter in field issue	Bar codes
14758.1	Codabar cannot print if start/stop is not set	Bar codes
14762.1	Code39 cannot print correct with special characters as data.	Bar codes
14768.8	Datamatrix with <SUB><CAN> in barcode data does not work	Bar codes
14791.8	Correct C1 Emulation mode in 406dpi issue	Bar codes
14842.8	c19: n as data fail to encode correctly	Bar codes
14870.1	UPC-A, GS1 and Codabar bar code printing	Bar codes
14546.7	Font and barcode size and location issues	Fonts
14584.2	Datamatrix/Aztec default w size+char rotation	Fonts
14595.1	Add support for c61 printing Cyrillic,Greek characters	Fonts
10997.1	Add support for Format Position from Page, Delete command	Language Conformance
11136.2	Printer hangs when printing Font page with variable data	Language Conformance
11566.2	Add support for Page, Create and Edit commands	Language Conformance
13368.1	Add support for Unicode formatted scripts	Language Conformance
13390.1	Page command issue that causes printer to exit IPL	Language Conformance
13505.2	Forms	Language Conformance
14097.8	Command not working same as PM4i	Language Conformance
14206.7	X,Y forms command is not working	Language Conformance
14242.9	Correct response issues	Language Conformance

Issue ID	Summary Description	Subsystem
14315.2	Pre and post amble issue	Language Conformance
14403.7	Add support for multiple commands in a single line	Language Conformance
14453.1	Deleted formats are not handled properly	Language Conformance
14469.1	Blank label feeds after print	Language Conformance
14486.1	Add support for printing with Hex control codes	Language Conformance
14491.7	Add support for extraneous CR characters	Language Conformance
14527.1	Print quantity and batch count issues	Language Conformance
14537.8	Add support for Xon/Xoff with Status	Language Conformance
14544.7	Data immediately after is not printed	Language Conformance
14593.8	Using the d2 copy command in a barcode field not working	Language Conformance
14627.6	Extra character printed	Language Conformance
14673.1	Format editing clears format issue	Language Conformance
14674.1	Zero-padded UDC graphics issue	Language Conformance
14704.1	Add support for UTF-16 encoded print jobs	Language Conformance
14720.2	IPL does not print customer script	Language Conformance
14749.2	Inconsistency on the number of labels printed	Language Conformance
14756.1	Codepage printout is different from PM4i	Language Conformance
14780.9	"Press FEED Not done" is transmitted wrong	Language Conformance
14782.9	Preamble/postamble can't transmit with transmit Enable	Language Conformance
14794.9	Status and error have different priority than PD42	Language Conformance
14802.1	e0 works as e1 for single job	Language Conformance
14815.8	Fields above 26 are missing	Language Conformance
14816.8	Selecting page 0, Printer communication lost	Language Conformance
14880	Data having “,” is printing incompletely	Language Conformance
14726	Cutter time-out error during start of cut	Accessories
14571.7	Feed behavior, box missing in labels	Shell Utilities
14450.8	Display Next Label Not Found error	User Interface
14830.6	Pause menu shown for Label not taken	User Interface

Resolved Customer Problem Reports

Number	description
121031-000175	UPC-A, GS1 and Codabar bar code printing issues
120913-000013	Fonts not compatible with fonts on PM4i,
120912-000073	Format will not print
120910-000070	Format edit command F deletes the format
120906-000099	Label not printing correctly
120830-00137	Incorrect printing for data stream having <SUB> command, improve font aliasing
120822-000151	Barcode ratio incorrect
120821-000111	Pressing feed causes incorrect registration
120817-000119	Barcode prints wrong mil size in 10 mil Emulation
120817-000004	C61 font unable to print Cyrillic characters

120802-000010	Print quantity and batch count issues
120730-000107	IPL does NOT print correctly, missing line and C26 font misalignment
120730-000002	IPL does not respond to IPL commands with Hex control code
120725-000124	PC43d IPL issue with extraneous CR characters
120724-000002	PM43 IPL display Next Label Not Found error
120720-000101	PM43-IPL-Feeds blank label after print
120720-000075	PM43 not printing IPL format correctly, Code 39 and Emulation mode issues
120718-000147	When sending an IPL label PC43D over the network it will not print the whole label
120716-000005	IPL does not respond to multiple IPL commands in a single line
120629-000004	IPL pre and postamble issue
120621-000184	IPL responds incorrectly to status enquiries unless they are between <STX> and <EXT>
120607-000182	X,Y forms command not working properly
120523-000095	When using the d2 copy command within a barcode field it does not work

About Upgrading Printer Firmware

You should check for periodic updates to your printer's firmware. Updated versions can include bug fixes or additional features that may be useful.

To upgrade printer firmware

1. Visit the [Intermec printers and media web page](http://www.intermec.com/printers) (<http://www.intermec.com/printers>) and then navigate to your printer product page.
2. Select the Downloads tab.
3. Firmware may be upgraded via several methods depending on your policies and preference. See your printer's documentation for specific instructions for your chosen upgrade method. Here are common upgrade methods:
 - a. USB thumb drive
 - b. Printer web page
 - c. PrintSet printer configuration utility
 - d. Intermec SmartSystems device management software
 - e. Wavelink Avalanche
4. In the OS/Firmware/Drivers section, locate the printer firmware entry and click the link in the Download column to download the appropriate firmware upgrade package.