



# V72.20.01Z

## Summary of Firmware Release Notes

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This document summarizes the following firmware releases:

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For support, please visit [www.zebra.com/support](http://www.zebra.com/support).

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## V72.20.01Z

### Release Date: 14 October 2016

This firmware includes all features of the previous [V72.19.15Z](#) release, except where noted otherwise. It is for use with the following printer models:

- ZT210™
- ZT220™
- ZT230™

## Changes

- Link-OS version updated to v4.0.
- Support has been added for a Visibility Agent. This new feature can connect a networked Link-OS printer to Zebra's Asset Visibility Service (AVS). The Asset Visibility Service is a Zebra-managed service offering that provides Zebra partners and customers 'at-a-glance' visibility to analytical insights about their device health, utilization, and performance. When Link-OS v4 printers are connected to a wired or wireless network, they will attempt to connect to the Asset Visibility Service by default. When successfully connected, the printer sends approximately 5 Kbytes of data per day (depending on how many alert events happen per day).
  - Data printed on any labels, tags or receipts are not transmitted to the Asset Visibility Service. The printers only communicate predefined settings on a scheduled basis. The printer sends Discovery Data and Settings and Alerts Data. The settings that are transmitted are listed below in the form of Set-Get-Do commands and are detailed in the Zebra Programming Guide.
  - The printer uses an encrypted, certificate-authenticated web socket connection to connect to the ZPC. **NOTE:** This is the same connection type that is typically used when you connect to an e-commerce or banking site.
  - The Visibility Agent can be turned off using a Set-Get-Do Command. Using your preferred software or Zebra Setup Utilities, send the commands below to configure and validate the Asset Visibility Agent settings. You can download Zebra Setup utilities at <https://www.zebra.com/setup>.

### weblink.zebra\_connector.enable

Turns the Asset Visibility Agent on or off. Additional information can be found in the App Note. See <https://www.zebra.com/us/en/products/software/barcode-printers/link-os/application-notes.html>.

**Values:** "on" or "off"  
**Default Value:** "on"

#### To send the commands:

1. Send the following command to Opt Out (disable the connection to ZPC and the Asset Visibility Service):

```
! U1 setvar "weblink.zebra_connector.enable" "off"
```

2. Send the following command to validate that you have opted out:

```
! U1 getvar "weblink.zebra_connector.enable"
```

The printer should respond with "off".



**Important** • Be sure to include a carriage return/line feed after sending a command to the printer.

If the Visibility Agent is on, there are two data types that the printer can send to the AVS platform – **Discovery Data** and **Setting/Alert Data**.

### Discovery Data

This information is sent when the printer connects to the ZPC. The following printer settings are transmitted:

Printer Settings		
device.unique_id	media.type	device.oem.model_name
ip.dns.domain	media.thermal_mode	appl.name
ip.active_network	media.printmode	device.location
mac_raw	odometer.total_label_count	zpl.system_status
ip.protocol	odometer.media_marker_count1	ip.addr
ip.netmask	odometer.media_marker_count2	ip.ftp.enable
ip.gateway	label_queue.batch_label_cnt	ip.lpd.enable
ip.port	label_queue.format_counter	ip.tcp.enable
device.pnp_option	zbi.enabled	ip.udp.enable
device.languages	zbi.state	ip.http.enable
device.cpcl_formatting_commands_disable	zbi.revision	ip.smtp.enable
head.resolution.in_dpmm	head.width.in_dots	ip.pop3.enable
zpl.label_length	ip.port_json_config	ip.snmp.enable
ezpl.print_width	appl.link_os_version	ip.telnet.enable
media.darkness.mode	device.friendly_name	weblink.enable

## Settings and Alerts Data

This information is sent by the printer at the schedule listed in the table below. The following printer settings or alerts are transmitted:

Printer Settings		
At connection:	At connection:	When the Alert occurs:
weblink.zebra_connector.version	device.bluetooth_installed	PAPER OUT
device.product_name	odometer.media_marker_count	RIBBON OUT
print.tone_format	media.type, ezpl.media_type	HEAD ELEMENT BAD
power.percent_full	interface.network.active.speed	SUPPLY TOO HOT
power.serial_number_string		HEAD OPEN
power.manufacture_date		HEAD COLD
power.cycle_count	<b>Every Hour:</b>	HEAD TOO HOT
power.device_name	power.percent_full	CUTTER JAMMED
power.full_charge_capacity	wlan.signal_strength	COLD START
power.date_first_used	odometer.total_print_length	
interface.network.active.ip_addr	interface.network.active.speed	
wlan.signal_strength		<b>Once A Day:</b>
odometer.total_print_length		power.cycle_count
odometer.rfid.valid_resetable	<b>Every 6 Hours:</b>	power.device_name
odometer.rfid.void_resetable	print.tone	power.full_charge_capacity
memory.flash_size	print.tone_zpl	odometer.total_label_count
memory.flash_free	media.speed	odometer.rfid.valid_resetable
device.ltu_installed	zpl.label_length	odometer.rfid.void_resetable
device.cutter_installed		memory.flash_free
device.rewinder_installed		odometer.media_marker_count
		media.type
		ezpl.media_type

## Changes (continued)

- Front Panel Batch Counters have been made available. They can be turned on by using the SGD command `display.batch_counter`.
- Web sockets connections now support SHA2 certificates. The printers will continue to support SHA1 certificates until Link-OS v5 is released (in 2017). At that time, the printers will no longer support SHA1 certificates, in accordance with privacy best practices.
- Alerts are no longer displayed over the Home menu to enhance readability.
- New Set-Get-Do Commands were implemented. Refer to the Zebra Programming Guide for details on each command.
  - head.resolution.in\_dpi
  - file.capture\_response.begin
  - file.capture\_response.end

- `file.capture_response.destination`
- `device.command_override.add`
- `device.command_override.clear`
- `device.command_override.list`
- `device.command_override.active`
- `weblink.zebra_connector.version`
- `weblink.zebra_connector.enable`
- `weblink.zebra_connector.proxy`
- `weblink.zebra_connector.authentication`
- `weblink.zebra_connector.authentication.add`
- `weblink.zebra_connector.authentication.remove`
- `weblink.zebra_connector.authentication.entries`
- `wlan.wpa.timecheck`
- `wlan.rts_cts_enabled`
- `display.batch_counter`
- `device.set_clock_to_build_date`

### Issues Corrected

- The SNMP `zbraOptUnsAlertCondition` and `zbrOptUnsAlertsEntry` response strings have been extended to include 1023 characters.
- The Japanese and Korean front panel menus have been adjusted to eliminate character overlaps.
- SNMP Print Job Completed reporting has been enhanced when using the Pause Alert.
- The ZBI `WRITE` command has been corrected to count all data written to the system.
- The EPL `URH` and `URL` commands will now return a value in meters.
- The Mirror system timing has been altered to include a retry, so as to improve file writing performance.
- EPL has been enhanced to handle images larger than the label size.
- The command `zpl.zpl_override` has been eliminated; use the `device.command_override` commands instead.
- The printer will now feed to the `SET-TOF` defined position when that setting has been set, and the FEED button is pressed.
- The Mirror system will now accept the return code `125` in addition to the return code `150`, in order to support IIS7 and FileZilla servers.
- The Mirror system now supports time and date stamping used by IIS7 and FileZilla servers.
- Firmware updating when using both Profile Manager and either IIS7 or FileZilla has been optimized to avoid conflicts.
- Wi-Fi roaming and Protected Management Frames (PMF) support have been improved.

- Memory management during printing has been optimized for cases where a `.TTF` font, graphics, and inverted orientation printing are being used.
- The JSON implementation of the `usb.mirror.feedback.odometer` and `ip.mirror.feedback.odometer` commands now have values of `READ_WRITE_ACCESS`.
- The JSON implementation of the `zbi.state` command has been changed from a string type to an enum type.
- The EPL command `oR0,0` is now supported..
- The Czech menu will now use the word `INCHES`.
- Socket connections on ZBI have been optimized to avoid a connection not ending when it should.
- The JSON implementation of `interface.network.active.speed` is now treated as an integer.
- APPLICATOR mode will be offered and selectable, and the printer will use APPLICATOR paper movement behavior while in the mode; however since the printer does not have an applicator option, the printer will not wait for applicator signals.
- The label feed length after a calibration will now be updated to use the newly calibrated length.
- The range for `ip.discovery.port` is now 1 - 65535.
- The range for `zpl.label_length` has been corrected in the allconfig.

## V72.19.15Z

### Release Date: 14 January 2016

This firmware includes all features of the previous [V72.19.13Z](#) release, except where noted otherwise. It is for use with the following printer models:

- ZT210™
- ZT220™
- ZT230™

## Changes

- The wireless settings commands only support non-control ASCII characters.
- FTP PORT commands are supported when the port number requested is above 1023 and the IP address being requested is the same as that of the device initiating the connection.

## Issues Corrected

- Network Time Protocol settings syntax checking has been enhanced.

## V72.19.13Z

**Release Date: 31 August 2015**

This firmware includes all features of the previous [V72.19.10Z](#) release, except where noted otherwise. It is for use with the following printer models:

- ZT210™
- ZT220™
- ZT230™

### Changes

- The printers now support the “small label tracking” feature, by default. The command `"media.small_label_tracking"` can be set to `"off"` to disable this feature.
- Link-OS printers now support downloading PEM and DER formatted WLAN certificates in the P12 format for the TLS, TTLS and PEAP security types. Additionally, P12 formatted certificates are now supported for downloading private keys and client certificates. For more information, see the App Note “Direct WLAN Cert Downloading.”
- Front Panel passwords are now supported on the ZT230. The password level can be set from the Tools menu.
- The new Zebra logo is now used on the front panel, web pages and two-key report.
- The printers will now store information related to the state of the devices sensors and internal printer operations which may be accessed and used by Zebra for the purpose of improving the products performance and readability. For more information, please contact [softpm@zebra.com](mailto:softpm@zebra.com).

### Issues Corrected

- The printer will no longer apply adjustments to the `~TA` (Tear Off) setting after completing the “No Motion” Head Open or Power Up action.
- The contrast setting on the display will be retained through a power cycle.
- The `"netmanage.avalanche.agent_addr"` command will now accept a DNS value.
- The printers will now accept a .GRF image larger than 100KB.
- The ZPL implementation of the Datamatrix barcode has been enhanced to support more combinations of standard ASCII and extended ASCII character strings.
- JSON parsing has been enhanced to better handle slow transmissions to the printer.
- Rendering time for ZPL generated circles, boxes with rounded corners and diagonal lines has been enhanced.
- Font handling has been improved to ensure that when a new font replaces an existing font, the character mapping is correctly updated.
- The `^HZ0` response now places a drive letter in the `<OBJECT-DATA>` reply.
- The `^GFA` command will no longer produce a stretched image when the last line of the encoded graphic is a `" , "` or a `" ! "`.
- ZBI program throughput has been enhanced.

- The Cloud Connect web sockets system has been optimized to improve throughput.
- The Cloud Connect web sockets has been optimized to better handle large file (1MB+) downloads from the printer to a host system.
- The USB implementation has been enhanced to optimize bi-directional communication.
- In order to improve throughput, the WLAN system will now use "CTS to Self" for the default HT mode. The system can be set to use "RTS-CTS" by using the "wlan.rts\_cts\_enabled" command (default is "off").

## V72.19.10Z

**Release Date: 07 January 2015**

This firmware includes all features of the previous [V72.19.6Z](#) release, except where noted otherwise. It is for use with the following printer models:

- ZT210™
- ZT220™
- ZT230™

### Changes

- Wi-Fi certification for this model is now based on the Standard Zebra Wireless driver
- Ad-Hoc wireless is now supported.
- Opportunistic Key Caching (OKC), "Fast Roaming" is now supported on WLAN connections.
- The Network Time Protocol (NTP), which allows setting the printers clock based on a time server, is now supported.
- Country support for RFID has been expanded.
- The total label count odometer value has been added to the configuration label.
- The Avalanche client now supports reporting a successful printer OS update.
- The printer will now validate that user-assigned network port number assignments do not conflict with each other.
- The OpenSSL version the printers use is now v1.0.0m.
- The "device.jobs\_print" SetGetDo command is now supported.
- The Link-OS version is now v2.5.

### Issues Corrected

- Throughput for small labels (1.5" long and shorter) has been enhanced.
- Support for CCX is now available via the Zebra Development Services team, so that implementations can be tailored to individual network needs.
- ^HZA responses when running ZBI programs have been corrected to include all expected data.

- WML has been corrected to consistently show messages positioned in the bottom center of the screen.
- ZBI processing of formats larger than 32K has been corrected.
- The EPL speed command ("**S**") will now set the print speed, slew and backfeed rates.
- The value set by the "**Q**" command will now be used in both ZB and ZT modes.
- The WLAN MAC address will now be consistently reported after a power up event when a new main logic board has been installed.
- The **~JP** command now correctly pauses the printer.
- EPL '**p**' commands will no longer effect subsequently printed ZPL formats.
- The Czech and Russian translations on the front panel of the ZT230 have been updated.
- Graphics sent to the printer using the EPL command "**GM**" are now supported.
- MAC address reporting has been enhanced to ensure address is correctly reported at startup.
- The E:\SYSLOG.TXT file will only be saved to the E: drive when the "**device.syslog.save\_local\_file**" setting is set to "**yes**".
- An UCC/EAN128 barcode, using mode D, which contains an odd number of digits following a subset A/B section will now print correctly.
- Spaces are now allowed in "**netmanage.avalance.set\_property**" SetGetDo commands.
- Recalling formats that contain serialized fields with XML is now functional.
- The ZT230 front panel menu now supports a Label Top setting.
- The printer web page label preview function has been enhanced to support longer labels.
- Keyboard Display Unit support has been enhanced to correctly support processing Real Time Clock fields.
- Sensor selections (Reflective/Transmissive) will now be maintained through a power cycle.
- EPL cut mode processing has been enhanced to better handle repeated cut events in a batch.

## V72.19.6Z

### Release Date: 20 September 2013

This firmware includes all features of the previous [V72.19.5Z](#), and is for use with the following printer models:

- ZT210™
- ZT220™
- ZT230™





**Note** • For optimal printing quality and proper printer performance across our product line, Zebra strongly recommends the use of genuine Zebra™ supplies as part of the total solution. Specifically, the ZT210, ZT220, and ZT230 printers are designed to work only with genuine Zebra™ printheads, thus maximizing safety and print quality. Please note the following Printer status messages that can be displayed on the unit.

**Table 1:**

<p><b>Status of Printer as Shown by Indicator Lights:</b></p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> STATUS</div> <div style="text-align: center;"> PAUSE</div> <div style="text-align: center;"> DATA</div> <div style="text-align: center;"> SUPPLIES</div> <div style="text-align: center;"> NETWORK</div> </div> <p><b>ZT230 Error Message:</b></p> <div style="border: 1px solid black; padding: 5px; text-align: center; width: fit-content; margin: 10px auto;">                 PH NOT AUTHENTICATED REPLACE PRINthead             </div>	<p><i>STATUS Light steady red</i> <i>PAUSE Light steady red</i> <i>DATA Light steady red</i></p> <p>The printhead was replaced with one that is not a genuine Zebra™ printhead. Install a genuine Zebra™ printhead to continue.</p>
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## Changes

- The Link-OS version number is now 2.0
- Added full support for Profile Manager features. Upgrade to this firmware version to use printers with the Profile Manager app. This firmware is embedded in the Profile Managers Resources system to facilitate updating.
- In order to ensure current time reporting, the Real-time clock has been enhanced to support re-rendering formats during printing.
- Added support for DHCP option 43. The feature allows the printer to obtain the settings used to control Cloud Connect weblink connections or Mirror events as part of receiving a DHCP assigned IP address. This requires that DHCP Option 60 is not empty and that `ip.dhcp.auto_provision_enable` is set to "on".  
The package of Cloud Connect/weblink information sent from the DHCP server in the Option 43 response can include the:
  - Server address
  - Authentication server name
  - User name and password for proxy logins
 The package of Mirror information sent from the DHCP server in the Option 43 packet can include the:
  - Server address
  - Mirror path
  - Mirror feedback path
  - Mirror appl path
  - Mirror mode
 Consult the Programming Guide for more information.
- Added a "default" field to the "allconfig" JSON response for each setting

- The Cloud Connect weblink connection will now send a websocket ping to the connected server every 60 seconds. If no response is received after three attempts, the connection will be closed.
- The Cloud Connect weblink connection now logs the servers certificate serial number and fingerprint
- Additional bits added to the ~HQES response and Advanced Discovery packet
- A new setting `weblink.ip.connX.num_connections` has been added. This setting shows the number of established connections. The control channel counts as 1 as well as all other sub channels (echo, raw\_port, json\_config). This is getvar only settings with a max value that is the same as the `max_number_connections`. Consult the Programming Guide for more information.
- A new group of settings for position have been added. These allow users to manually set latitude, longitude and altitude values on the printer. Consult the Programming Guide for more information. The new settings are:  
`device.position.latitude` in degrees min/max: -90.0/90.0  
`device.position.longitude` in degrees man/max: -180.0/180.0  
`device.position.altitude` in meters min/max: -10000.0/406700000.0  
`device.position.accuracy` in meters min/max: 0.0/406700000
- User available `E:` memory is now 32MB.

## Issues Corrected

- JSON will now return a null instead of a "?" for settings that do not exist on the device.
- `.TTF` and `.TTE` files will now be listed when using the "List Fonts" from the front panel.
- ZBI Event ID 4 (Cancel Key press) is now supported.
- Settings will now appear correctly in the ZebraNet Bridge application.
- Handing DSR handshaking has been altered to duplicate the behavior used on the S4M.
- Downloading larger font files has been improved.
- The `ip.dns.domain` or `ip.dns.servers` values can now be set while IP addressing is set to permanent.
- Scalable font field handling improved.
- Ping response times have been enhanced.

## V72.19.5Z

### Release Date: 03 July 2013

This firmware includes all features of the previous [V72.19.1Z](#), and is for use with the following printer models:

- ZT210™, ZT220™, ZT230™

## Changes



- Dual support for ZPL and EPL II

**Note** • The following commands are not supported:

AUTOFR, fB, JB, JC, JF, OF, OS, US, US1, UT.

**Note** • When using the tap to reprint function on the ZT230, the printer must be at the idle screen and the down arrow key is used to trigger the reprint event.

- The SGD command `"device.ep1_legacy_mode"` now supports a new `"2746e"` parameter. This mode is the default setting on ZT200 series printers.



**Note** • You must send the following two commands to get all of the 2746e compatibility features:

```
! U1 setvar "device.ep1_legacy_mode" "2746e"
```

```
! U1 setvar "device.ep1_legacy_mode" "print_orientation"
```

- The SGD command `"device.languages"` now supports `"zpl"`, `"hybrid_xml_zpl"`, `"ep1"` and `"ep1_zpl"`. The default on ZT200 series printers is now `"ep1_zpl"`.
- The `^MWN` command will now deactivate the HEAD COLD Warning.

## Issues Corrected

- The default Telnet password has been set to `"1234"`
- `^MWN` command is now working correctly.

## V72.19.1Z

**Release Date: 11 January 2013**

This firmware is for use with the following printer models:

- ZT210™
- ZT220™
- ZT230™

This firmware includes all features of the previous [V72.18.4Z](#).

## Issues Corrected

NA

## Link-OS™ Features

Initial release of Link-OS support.

- Data Capture to SGD
- Unsolicited alerts for SGD changes
- HTTP POST transport for unsolicited alerts

- SGD change log
- ZBI events for SGD changes
- User Variables Port 9200 -- SGD Channel
- Cloud Connectivity

### V72.18.4Z

**Release Date: 26 November 2012**

This firmware is for use with the following printer models:

- ZT210™
- ZT220™
- ZT230™

This firmware includes all features of the previous [V72.18.3Z](#).

#### Changes

- Improved 802.11n noise floor performance.

#### Issues Corrected

- Files sent from ZBI-Developer will now remain in flash after a power cycle.

### V72.18.3Z

This firmware is for use with the following printer models:

- ZT210™
- ZT220™
- ZT230™

**Release Date: 15 October 2012**

This firmware includes all features of the previous [V72.18.2ZA](#)

#### Changes

- The front panel menu system for the ZT230 now supports Japanese, Korean, Simplified Chinese and Traditional Chinese, Russian, Polish, Czech and Romanian
- Front Panel Alerts on the ZT230 are now easier to read due to a new, larger character size font.

- A new Auto-Recovery feature has been added that will reinstall the printers operating system if an issue is detected during printer start up. The operating system version on the printer will remain the same after Auto-Recovery. When Auto-Recovery runs on a ZT230 printer, the unit will display “Decompressing Files”, then “Writing Files to Flash” and then “Finishing Install” after which the printer will then restart. When Auto-Recovery runs on a ZT210 or ZT220 printer, all LEDs will remain yellow until the Auto-Recovery process is complete and then the printer will then restart.



**Note** • Data sent to the unit during a printer Operating System update or an Auto-Recovery may not be received or processed.

## Issues Corrected:

- The result of using the font identifier command (^CW) is now shown on the printers directory Web page.
- The Real-Time clock has been enhanced to roll-over to a new date when the month has 31 days and “months” is being used as the offset time.
- The format counter response in the ~HS command response has been corrected when Reprint Mode is enabled.
- The LPR port is now supported in ZBI apps.
- Processing of the ~JP command, when used with the Set-Get-Do command
- "formats.cancel\_all" has been enhanced
- Web pages have been enhanced to display faster.
- Front Panel French phrases on the ZT230 have been edited to fit across the width of the screen

## V72.18.2ZA

**Release Date: 29 June 2012**

This firmware is for use with the following printer models:

- ZT210™
- ZT220™
- ZT230™

This firmware includes all features of the previous [V72.18.2Z](#).

## Changes

- None.

## Issues Corrected

- When setting the printer password using the ^KP command, the web page password is also now set to the same value.

- When Reprint Mode is enabled, using the `~PR` command now reprints the last label printed.
- Sending the `^JZ` command now re-prints the missing label after an error condition.
- The Label Take Up (LTU) unit will now rewind the backing before the printed label is removed.
- Persistent files can now only be deleted via the `^ID` and `file.delete` commands when the file location and file name are fully defined in the command.

## V72.18.2Z

**Release Date: 27 April 2012**

This firmware is for use with the following printer models:

- ZT210™
- ZT220™
- ZT230™

## Changes

- 802.11a/b/g/n is now supported.
- The front panel content is now entirely written in WML. Changes made to settings via the front panel are now immediately in effect. For users who wish to edit the front panel content, the WML for the front panel is available for download at [www.zebra.com](http://www.zebra.com).
- The printer now supports a SNMP MIB. This is available for download at [www.zebra.com](http://www.zebra.com). The “683” Print Server MIB is no longer supported in this product.
- The printer now supports TCP Raw connections via ports 9100 and 6101 by default.
- The printer now supports up to 23 alerts.
- The Unicode engine can be turned off by sending `^XA^ZC2^XZ` to the printer. It can be turned on by sending `^XA^ZC0^XZ`. Include a `^JUS` before the `^XZ` to make changes permanent across power cycles.
- The Swiss721 font is now included by default. If desired it can be deleted to recover space by sending `^XA^IDE:TT0003M_.TTF^XZ` to the printer.
  - Intellifont fonts are no longer supported. The `~DS` and the `~DT` commands are no longer supported.
  - Scripts that previously called for font files named using the `.fnt` extension will now be supported by the printer automatically searching on E memory for a `.TTF` file named with the same name. For example, the printer will treat `TT0003M_.TTF` as if it were `TT0003M_.FNT`.
- The “Cold Start” Alert is now manageable. It is on by default, but can be deleted if desired. The alert can be deleted via the web interface, or by sending `^SX0,F,N,N` to the printer.

- If a getvar is executed against a branch name rather than a full SGD name, the printer will return the name of all SGDs in that branch along with their possible values.



**Example** • ! U1 getvar “power” will return:

```
power.
power.dtr_power_off : on , Choices: on,off
power.shutdown
```

- A number of new Set-Get-Do commands are supported. These are listed here and detailed in the Programming Guide:
  - comm.halt
  - comm.handshake
  - device.cutter\_installed
  - device.ff\_disable
  - device.host\_identification
  - device.host\_status
  - device.ltu\_installed
  - device.pause
  - device.print\_reprogram\_2key
  - device.super\_host\_status
  - device.unpause
  - display.backlight
  - display.backlight\_on\_time
  - display.language
  - display.load\_card
  - ezpl.head\_close\_action
  - ezpl.label\_length\_max
  - ezpl.label\_sensor
  - ezpl.manual\_calibration
  - ezpl.media\_type
  - ezpl.power\_up\_action
  - ezpl.print\_method
  - ezpl.print\_mode
  - ezpl.print\_width
  - ezpl.reprint\_mode
  - ezpl.take\_label
  - ezpl.tear\_off
  - file.dir\_format
  - netmanage.avalanche.agent\_addr
  - netmanage.avalanche.available\_agent
  - netmanage.avalanche.available\_port
  - netmanage.avalanche.encryption\_type
  - netmanage.avalanche.interval
  - netmanage.avalanche.interval\_update
  - netmanage.avalanche.model\_name
  - netmanage.avalanche.set\_property
  - netmanage.avalanche.startup\_update
  - netmanage.avalanche.tcp\_connection\_timeout
  - netmanage.avalanche.terminal\_id
  - netmanage.avalanche.text\_msg.
  - netmanage.avalanche.text\_msg.beep
  - netmanage.avalanche.text\_msg.display
  - netmanage.avalanche.text\_msg.print
  - netmanage.avalanche.udp\_timeout
  - parallel\_port.mode
  - parallel\_port.present
  - power.dtr\_power\_off
  - power.label\_queue.
  - power.label\_queue.shutdown
  - power.shutdown
  - sensor.paper\_supply
  - sensor.peeler
  - usb.connected
  - usb.device.device\_id\_string
  - usb.device.device\_unique\_id
  - usb.device.device\_version

- formats.cancel\_all
- input.capture
- interface.network.active.arp\_interval
- interface.network.active.cable\_type
- interface.network.active.cache\_ip
- interface.network.active.dhcp\_received\_host\_name
- interface.network.active.protocol\_error
- interface.network.active.rx\_errors
- interface.network.active.rx\_packets
- interface.network.active.server\_address
- interface.network.active.server\_protocol
- interface.network.active.speed
- interface.network.active.tx\_errors
- interface.network.active.tx\_packets
- interface.network.active.wins\_addr
- internal\_wired.ip.dhcp.arp\_verify
- internal\_wired.ip.port\_alternate
- ip.dhcp.arp\_verify
- ip.dhcp.user\_class\_id
- ip.dhcp.vendor\_class\_id
- ip.ftp.request\_password
- ip.http.admin\_name
- ip.http.admin\_password
- ip.http.custom\_link\_name
- ip.http.custom\_link\_url
- ip.http.faq\_url
- ip.http.port
- ip.mirror.mode
- ip.port\_alternate
- ip.snmp.trap\_community\_name
- log.reboot.
- log.reboot.code
- log.reboot.codes
- log.reboot.reason
- log.reboot.report
- usb.device.manufacturer\_string
- usb.device.product\_id
- usb.device.product\_string
- usb.device.serial\_string
- usb.device.vendor\_id
- usb.halt
- wlan.11n.20mhz\_only
- wlan.11n.aggregation
- wlan.11n.greenfield
- wlan.11n.rifs
- wlan.11n.short\_gi\_20mhz
- wlan.11n.short\_gi\_40mhz
- wlan.active\_channels
- wlan.allowed\_band
- wlan.channel\_mask
- wlan.ip.dhcp.arp\_verify
- wlan.ip.port\_alternate
- wlan.permitted\_channels
- wlan.roam.monitor
- wlan.user\_channel\_list
- wlan.waveagent.
- wlan.waveagent.enable
- wlan.waveagent.udp\_port
- zpl.calibrate
- zpl.caret
- zpl.control\_character
- zpl.delimiter
- zpl.label\_length
- zpl.left\_position
- zpl.save
- zpl.system\_error
- zpl.system\_status
- zpl.zpl\_mode
- zpl.zpl\_override



- The printer will negotiate with any parallel port connected print server to determine which communication methods can be supported (unidirectional “Compatibility Mode” or bi-directional “Nibble Mode”). This applies to any parallel port connected print server.
- The ZebraLink 1284.4 layer is no longer supported. The IP address of a ZebraLink print server connected to the parallel port will not be displayed on the printers front panel. Settings from a ZebraLink Print Server connected to the printers parallel port will not be communicated between the print server and printer.
- External wired SGD commands are not supported.
- The following items will be supported in a future release:
  - Logical ports on the print server
  - Japanese, Simplified Chinese, Traditional Chinese, Russian, Polish, Romanian, Czech, and Korean translations on the front panel
  - Real Time Clock
  - ^MP full implementation (button protection is supported)
  - Front panel passwords

