

# Printer Profile Manager Enterprise Release Notes

Version 4.3.8289.a028fed1352126a9013aa4bbb8289fc314e5485f

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## System Requirements

### Operating System:

Windows Server 2019

Windows Server 2022

Windows Server 2025

Windows 10

Windows 11

### Browsers:

Chrome versions in Google's stable release channel.

### Minimum System Requirements:

CPU cores: 8

Memory (RAM): 16GB

Minimum: 50GB available drive space

### Recommended System Requirements:

CPU cores: 8

Memory (RAM): 32GB

Minimum: 100GB available drive space

### Port 80:

Port 80 should be available on the server where PPME is being installed. If any other services are using port 80,

PPME may fail to start. Beginning in version 3.3.x the installer allows a different port to be specified if port 80 is in use.

## **Network Access Requirements:**

### **Internet Access**

Outgoing port 443 must open to the internet.

PPME requires internet access for the following functions:

- License activation\*
- License de-activation\*
- License update for add-on orders\*
- Access to product help
- Printer and application analytics (optional)

\*Access to <https://zebratechnologies.prod.sentinelcloud.com:443/> is required for license related actions.

### **Internal Network (Outgoing Ports)**

Zebra printers support a discovery process that utilizes UDP on port 4201. Initial printer configuration may use TCP ports 9100, 9200, or 6101.

If using LDAP, additional ports may need to be opened.

### **Server Access (Incoming Ports)**

The server firewall should be configured to only allow the following incoming ports:

- Port 8443: printer connections.
- Port 443: client connections.

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## **Supported Printers**

Zebra DNA printers running Link-OS v5.0 and later, including the following series:

1. iMZ series
2. QLn series
3. ZC100 series

4. ZC300 series
5. ZQ300 series
6. ZQ300 Plus series
7. ZQ500 series
8. ZQ600 series
9. ZQ600 Plus series
10. ZD400 series
11. ZD500 series
12. ZD600 series
13. ZE5x1 series
14. ZR Series
15. ZT200 series
16. ZT400 series
17. ZT500 series
18. ZT600 series

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## General Notes

1. Zebra recommends that the Printer Profile Manager Enterprise (PPME) application be installed on its own server, with no other applications running on that server. This allows for all server resources to be dedicated to the application and can help avoid license conflict with other installed apps.
2. During installation, spaces or other whitespaces in the email field will cause the certificate generation process to fail. The common name field must be a FQDN, using an IP address for that field will cause the certificate generation process to fail.
3. When using the app to distribute printer OS updates, you will experience better performance if you first upload the printer OS to the PPME app before distributing it to printers.
4. If a user deletes a resource, profile or tag associated with a provisioning event, the provisioning event is paused.
5. Selecting all and deselecting all in the quick tag view will only select/deselect the printers that qualify under the current filter, NOT all of the printers available to PPME.

6. After applying an empty IP address or DNS in manually add printer, the discovery will never end, you will have to click Cancel to do a new manually add printer again.
7. Downgrading from the 20.01z printer OS to the 19.15z printer OS prevents the printer from getting an IP address the first time it boots up after the downgrade. Reboot the printer again to obtain an IP address.
8. PPME uses UTC to store all times. This is done so that the browser and the server don't have to worry about synchronizing. When a user creates a provisioning date-based event, any time entered will be first converted to UTC. Assuming the user is in Guangzhou, that is 8 hours ahead of UTC, and the server is in Lincolnshire, that is 6 hours behind UTC. Assuming it is 9:00am in Guangzhou, so that is 1:00am in UTC, and 7:00pm for the server.
  - Now let's say you want to schedule an event to happen at 11:00am 2/17/2017 Guangzhou time. The browser code will take 11:00am UTC+8 and set it to 3:00am UTC +0 2/17/2017. The server will read that and schedule an event to happen in 2 hours, at 9pm UTC-6 2/16/2017. The key point is to remember the server's time zone is the ultimate deciding factor. All events and logs will be based on and offset from that time.
9. The printer list refreshes every 60 seconds to accommodate for printers that are changed into a state that doesn't match the current filter.
  - Example: The user filters for online printers and then powers off an online printer. The now offline printer will still be in the printer list even though the filter is for online printers. But because of the 60-second refresh interval, the printer list will be refreshed and the offline printer will be removed from the list of online printers, given that the user is still filtering for online printers at the time of refresh.
10. The printer only works with PNG and GRF image types by default, so the application converts graphics to a PNG as needed.
11. Applying a profile to a printer will trigger a reboot. Applying a profile with a printer OS change will trigger two reboots.
12. Do not apply a profile with a '~jr' command inside the profile to a printer, because then PPME would have no choice but to restart the printer over and over again.
13. Multiple pending actions sent to an offline printer may result in errors and incomplete operations when printers come back online.
14. When setting the printer to static IP address the "dns server ip address" setting on the printer needs to be configured in order for the printer to find the server. Otherwise, the printer will be unable to find the PPME server when it comes online again.
15. Switching a printer from Line mode to ZPL mode (or to other languages, in any order) is not supported by PPME.
16. Gleaning and RARP protocols are not supported.

17. When the PPME server or service is restarted, the higher the number of printers you have trying to reconnect at the same time increases the load on the server. This can be avoided by reconfiguring the printer's weblink connections to retry connecting at different intervals rather than the current 10 second default. Doing so will prevent all of the printers from reconnecting at the same time and reducing the load on the server. The PPME application will attempt to reconfigure the retry interval automatically when printers connect or are added, however, the new configuration will not take effect until the printers have been restarted.

It's recommended that printers are reconfigured to varying retry intervals of 20 seconds to 120 seconds in groups of no larger than 100-200 (e.g. possibly by subnet). NOTE: This is not meant to imply that you have to limit your tagged groups to 200 printers.

The reconfiguration can be done by setting the following two weblink values (depending upon which connection is being utilized for PPME).

For example, if you were setting the printers to an `retry_interval` of 20, you'd send these two commands to the printers:

```
! U1 setvar "weblink.ip.conn1.retry_interval" "20"
```

```
! U1 setvar "weblink.ip.conn2.retry_interval" "20"
```

To make this as easy as possible, you can create a file called `retryint.zpl`, containing the above commands, and then use the Resources directory in PPME to send the file to printers. It's important to name the file with the `.zpl` extension, because when you click on the file in the Resources you will be able to choose the "Send Resource" on the Resource Actions screen, using the stacked three dot menu.

18. If an existing Printer Profile Manager Enterprise installation is found, the installer will attempt to update the service. Before continuing with the upgrade, it is recommended that you backup your current installation. The upgrade will stop the Printer Profile Manager Enterprise service, upgrade the application, and restart the service. Any printers or users connected at the time of this upgrade will experience a disruption in service while the upgrade is in progress. This update is only to be used on older, successful, installations. If an installation is newer or was incomplete, the product should first be completely uninstalled.
19. Link-OS 6.0 firmware is known to have download issues with some binary files. If a download issue is encountered, make sure your printer is running the latest firmware version.
20. The wireless certificate management feature supports the Microsoft AD CS Enterprise type CA. The Microsoft AD CS Stand-Alone type CA is *not* supported.
21. After deleting a Certificate Authority (CA) entry and recreating it using different User credentials, PPME may fail to connect to the CA again due to the original User credentials being cached. Restart the PPME service to resolve this.
22. Using PPME to downgrade a ZQ series printer OS from version 6.7 is unsuccessful. This is due to an issue identified in the ZQ series printer OS version 6.7 and will be corrected in a future release of the printer OS.

It's necessary to downgrade the printer OS using another method.

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## Licensing Information

1. To activate a trial, product license or update a license for additional printer quantities (add-on orders), the server must have port 443 open and be able to reach the host **zebratechnologies.prod.sentinelcloud.com**
2. The default trial period in v4.2 and later is 60-days. Trial expiration information is displayed on the PPME login screen and license screen accessible from the Admin menu within PPME. A trial will start automatically after installation if the server can reach the host listed above.
3. Administrators can view additional license information, activate a new license and manage an existing license from the Admin menu within PPME.
4. Thales licenses are indicated by a Customer ID and Product ID displayed on the license screen. Nalpeiron licenses are indicated by a license number starting with 3467

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## Change Log

### DEPRECATION OF SHA1 CERTIFICATES

To align with industry data security standards and best practices, this release no longer supports SHA1 certificates.

#### **New Installations**

For new installations, the *Basic Printer Connections & Certificates* section has been removed from the configuration screen and it's no longer possible to select the Basic Printer Connection in the initial setup wizard. All printers require Link-OS 5.0 or later to connect to PPME.

#### **Upgrades**

When upgrading to this release from a previous version, the *Basic Printer Connections & Certificates* section provides a method to transition printers from using the *Basic Printer Connection* to the *Advanced Printer Connection* that uses SHA256 certificates. Refer to the PPME help for further details.

Printers must be upgraded to Link-OS 5.0 or later before they can be transitioned to the Advanced Printer Connection.

#### **Required Action**

Zebra recommends updating to the latest Link-OS version available for all printers to get important security

fixes and for printers to connect to this and future releases of PPME.  
Visit [www.zebra.com/linkos](http://www.zebra.com/linkos) for details about the latest version of Link-OS for your printers.

## IMPORTANT INFORMATION ABOUT UPGRADING

### Static IP Addresses

Due to database structure change in a prior release, any assigned static IP addresses will be lost when upgrading from a 2.1.x or 3.1.x version. This only affects the assignment in the PPME user interface, printers will retain their static IP address.

### Upgrading to v4.x

You must upgrade to v4.x versions from v3.4.7711 due to the removal of the ElasticSearch dependency. If necessary, perform an upgrade to v3.4.7711 first and then upgrade to a 4.x version.

| Date        | Version  | Changes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 25 AUG 2025 | 4.3.8289 | <ul style="list-style-type: none"><li>• Support for IPv6 has been added. Printers with Link-OS 7.0 or later support IPv6.</li><li>• A feature has been added to schedule discovery and auto-add found printers to PPME.</li><li>• A feature has been added to display a "New version available" message in the user interface when a new version of PPME has been released.</li><li>• The downloadable configuration file now has consistent end of line cr/lf pairs.</li><li>• The new IPP certificate type is now handled to prevent errors being generated in the logs.</li><li>• Corrected an issue where a network configuration could not be saved if the WPA SAE password length was greater than 167 characters.</li><li>• Corrected an issue where "Select All" only selected 25 items when deleting resources and there were more than 25 items to delete.</li><li>• Corrected an issue where modifying authentication entries in the Printer Connections section of configuration screen prevented the configuration file from being downloaded.</li><li>• Corrected an issue where the wrong range for the printhead width was displayed in the printer settings if multiple dpi options of the same printer model are used.</li></ul> |

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|-------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |          | <ul style="list-style-type: none"> <li>• The Tomcat version has been updated to 10.1.44.</li> <li>• The EULA has been updated.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 11 Jul 2025 | 4.2.8162 | <ul style="list-style-type: none"> <li>• The following updates have been made to enhance security: <ul style="list-style-type: none"> <li>◦ The PostgreSQL version has been updated to 14.18-1.</li> <li>◦ The Tomcat version has been updated to 10.1.42.</li> <li>◦ The Quartz library has been updated to 2.5.0.</li> <li>◦ Dependencies used in the installer have been updated to .NET 4.8 and Visual C++ (2015-2022): 14.44.35208.</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 01 Jan 2025 | 4.2.8126 | <p><b>Important Licensing Changes for Existing Customers</b></p> <p>Zebra Software Licensing is migrating from license servers managed by vendors Revenera and Nalpeiron to a new server platform, managed by Thales Sentinel. Zebra intends to stop using the Nalpeiron license server used by PPME in July 2025.</p> <ul style="list-style-type: none"> <li>◦ Working installations of PPME using Nalpeiron license numbers (starting 3467) on versions prior to 4.2.x should continue working past July 2025.</li> <li>◦ After upgrading to v4.2.x your PPME installation should automatically switch over to use a Thales license. This can be confirmed on the license screen in PPME where a Customer ID and Product ID will be shown. For the switch over to be successful, the PPME server must be able to access <b>zebratechnologies.prod.sentinelcloud.com</b> via port 443.</li> <li>◦ Before increasing your printer quantity in PPME with new add-on orders, it is necessary to upgrade to v4.2.x as the additional printer quantity will be added to your Thales license.</li> <li>◦ To ensure continuity, prepare for updating printer quantities and get the latest security updates, Zebra recommends upgrading to v4.2.x.</li> </ul> <p><b>Other Changes</b></p> |

- The default trial period for new installations is now 60 days.
- Corrected an issue relating to PostgreSQL Database folder permissions during upgrades.
- Corrected an issue where adding a resource with .GRF graphic content would be stored on the printer with .PNG extension.
- Corrected an issue where the number of selected printers was not displayed correctly at the top of the page when removing printers.
- Corrected an issue where both the pre-defined *Tagged* and *Not Tagged* filters could be selected. Only one should be selectable.
- Corrected an issue where the CA certificate was not deployed to the printer after applying a network configuration where the uploaded PFX or P12 file included the CA certificate.
- Corrected a filtering issue where a profile created from file based on ZQ630 Plus could not be applied to a ZQ630R Plus.
- Corrected an issue where a proxy error was displayed after updating proxy credentials on the configuration page. After updating credentials, a service restart is required as the prior credentials are cached.
- Corrected an issue where the *Send to Printer* function in the weblink tab did not work if the printer Link-OS version contained a micro version, e.g. 6.8.1.
- Corrected an issue where the media type filters Direct Thermal and Thermal Transfer did not work.
- Improved the performance of the infinite scroll method used on the printer listing page. As a result, the Printers Shown field on the listing page has been removed.
- The Operation Log Retention Policy has changed from archive to delete. This is to prevent archive files consuming large amounts of disk space over time.
- Resource files with .ZPL extensions that contain unwrapped images are now *sent* to printers rather than *stored*.
- The ZD611 printer images have been added.
- Various library updates to enhance security.
- The Java version has been updated to 21.0.5\_11.

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| 12 Aug 2024 | 4.1.8007 | <ul style="list-style-type: none"> <li>Removed support of SHA1 certificates: <ul style="list-style-type: none"> <li>The Basic Printer Connection option that used SHA1 certificates has been removed for new installations.</li> <li>In an upgrade scenario where the Basic Connection is being used, there is a method to transition printers to use the Advanced Connection option. Refer to the product help for further details.</li> <li>See additional details in the DEPRECATION OF SHA1 CERTIFICATES section above.</li> </ul> </li> <li>Various library updates to enhance security.</li> <li>A new Device Retention Policy feature has been added. When enabled, this automatically purges offline printers based on a defined time period.</li> <li>The Match Type field for Auto-Tags now includes greater than and lesser than options. Refer to the PPME help for additional details on using these new options.</li> <li>The printer and system operation logs now use the infinite scroll method instead of pagination. Due to this change, wording in some areas no longer indicate a specific number of printers when multiple printers are selected for some functions.</li> <li>The licensing components have been updated.</li> <li>The license and trial lease expiration time and date on the License screen are now displayed using the client's time zone.</li> <li>Corrected an issue where the PPME service sometimes did not restart after an upgrade.</li> <li>Corrected an issue where the Export all printer data option could fail and display an upstream connection timeout message.</li> <li>Improved filtering when selecting devices.</li> </ul> |
| 05 Mar 2024 | 4.0.7907 | <ul style="list-style-type: none"> <li>The following updates have been made to enhance security: <ul style="list-style-type: none"> <li>TLS 1.0 &amp; 1.1 connections are now disabled. <b>Printers must be running Link-OS 4 or later in order to connect to PPME.</b></li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|             |          | <ul style="list-style-type: none"> <li>◦ The HTTP OPTIONS method has been disabled to avoid exposing HTTP methods supported by the web server.</li> <li>◦ The PostgreSQL version has been updated to 14.11-1.</li> <li>◦ The Java version has been updated to 21.0.1_12.</li> <li>◦ The <i>moment-with-locales.min.js</i> library has been updated to version 2.29.4.</li> <li>◦ For the connection between the browser and PPME, the following weak SSL ciphers have been removed: <ul style="list-style-type: none"> <li>▪ TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256</li> <li>▪ TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384</li> </ul> </li> </ul> <ul style="list-style-type: none"> <li>• Corrected an issue where the settings drop-down menu was empty after creating a profile from a ZC series card printer.</li> <li>• Corrected an issue in the setup wizard process where a "Failed to register initial user" error occurred if a proxy is configured.</li> <li>• The licensing components have been updated to correct an issue where an incorrect computer ID was reported for trials running on a virtual machine.</li> <li>• Added support for the ZT5x0 and ZT6x0 V96 printer OS build.</li> <li>• Added support to display the new 3-digit Link-OS version, e.g., 6.8.1.</li> <li>• The modify-proxy.bat file has been updated to include the database username.</li> </ul> |
| 18 Jul 2023 | 4.0.7790 | <ul style="list-style-type: none"> <li>• This release has all ElasticSearch components removed. Refer to the important upgrade information above.</li> <li>• The Java version has been updated to 17.0.7.</li> <li>• Various library updates.</li> <li>• Additional information and warnings about SHA1 certificate deprecation have been added throughout the application.</li> <li>• The licensing components have been updated.</li> <li>• Modified the tagging option text in the Provisioning wizard to add clarity on what each selection does.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

- The radio band selection in the Network Configuration wizard has been simplified to three options: 2.4GHz, 5GHz and 2.4GHz & 5GHz
- Updated the list of wireless channels displayed in the Network Configuration wizard.
- Added a "Refresh" button on the login dialog and license configuration screen so users can initiate an update of the license or trial lease from the license server. This can be used when experiencing a "License Expired" message.
- Added the license lease expiration time & date on the license configuration screen.
- Modified the content of the email sent to administrators when a license lease cannot be renewed to better explain how to resolve it.
- Added the ability to configure WPA SAE for printers with Wi-Fi 6 hardware.
- Added the ability to configure the Top Margin setting in the printer landing page and in profile settings.
- Added information in the Network Configuration wizard about Ad-Hoc operating mode support.
- Added the ability to edit a Certificate Authority item so credentials can be updated.
- Added the ability to select multiple resources for deletion.
- Added the ability to configure unique settings on multiple printers using a CSV file.
- Added the eye icon to show/hide passwords on some password fields where it was missing.
- Corrected an issue where the active IP and MAC addresses did not update when using the refresh button on the printer landing page.
- Corrected an issue where sending a profile containing firmware may fail depending on the printer reboot code. The operation log would show "Error - Verifying Firmware"
- The installation guide has been updated.
- The help system has been updated.

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|-------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 29 Nov 2022 | 3.4.7711 | <ul style="list-style-type: none"> <li>• <b>IMPORTANT note when upgrading:</b> Due to database structure change in a prior release, any assigned static IP addresses will be lost when upgrading to a 3.4.x version from a 2.1.x or 3.1.x version. This only affects the assignment in the PPME user interface, printers will retain their static IP address.</li> <li>• <b>Removal of ElasticSearch</b> <ul style="list-style-type: none"> <li>◦ The ElasticSearch dependency used for the Printer and System operation logs is being removed. In this and future versions, the operation log data shall be stored in the database.</li> <li>◦ Upgrading to this version will migrate the last 14 days of Printer and System operation log data to the database. The ElasticSearch service shall then be removed.</li> <li>◦ The next release of PPME shall completely remove Elasticsearch from the distribution and it will be necessary to upgrade to this version first before upgrading to the newer version in order to migrate the data.</li> <li>◦ With the above change, only the last 30 days of Printer and System operation log data shall be visible from within PPME.</li> </ul> </li> <li>• Added the ability to create custom user roles and define the permissions for each role. A maximum of 25 user roles is allowed.</li> <li>• Added the ability to list and sort by printer serial number and/or MAC address. These options can be enabled from the Printer Listing Settings on the Printer Listings page.</li> <li>• Corrected an issue where a profile created from file was not being sent to the correct printers when using <i>Select All</i> in a filtered list of printers.</li> <li>• Added the ability to redirect the application log to Splunk or a Syslog server. The following articles shall be published with details on how to configure PPME to redirect the log. <ul style="list-style-type: none"> <li>◦ Syslog server:<br/> <a href="https://supportcommunity.zebra.com/s/article/000022463">https://supportcommunity.zebra.com/s/article/000022463</a></li> <li>◦ Splunk platform:<br/> <a href="https://supportcommunity.zebra.com/s/article/000022739">https://supportcommunity.zebra.com/s/article/000022739</a></li> </ul> </li> <li>• The battery monitoring feature is no longer a beta feature. There is no change to the functionality.</li> </ul> |
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|             |          | <ul style="list-style-type: none"> <li>• The JSONRPC service type in the file.cert.expiration SGD is now handled to prevent the 'Unknown certificate service type - JSONRPC' error message in the application log.</li> <li>• Specific printer conditions are now shown on the printer listing page in both List and Grid view. Where multiple conditions exist, they are listed in the order: Error(s), Warning(s), Alert(s)</li> <li>• Corrected an issue where an error message was displayed when saving a PEAP network configuration that didn't include a CA certificate file.</li> <li>• Printer images have been added for the ZD411 model.</li> <li>• The installation guide has been updated.</li> <li>• Added support for the following models: <ul style="list-style-type: none"> <li>◦ ZQ610/620/630 Plus</li> <li>◦ ZQ310/320 Plus</li> <li>◦ ZR328 Plus</li> <li>◦ ZR668 Plus</li> </ul> </li> </ul>                                                                                                                                                                                                               |
| 29 Jun 2022 | 3.3.7637 | <ul style="list-style-type: none"> <li>• <b>IMPORTANT note when upgrading:</b> Due to a change in the database structure, any assigned static IP addresses will be lost when upgrading to a 3.3.x version from a 2.1.x or 3.1.x version. This only affects the assignment in the PPME user interface, printers will retain their static IP address.</li> <li>• The Spring Boot version has been updated to 2.6.7 (using framework version 5.3.19).</li> <li>• The Java version has been updated to 17.0.3.</li> <li>• The application has been updated to prevent Cross-Origin Resource Sharing (CORS) attacks and un-validated Redirects and Forwards.</li> <li>• A new installation will no longer use folders under a User Account. An upgrade will move the application out of the current User Account folders.</li> <li>• Corrected an issue where the "Password Used for Authentication on the Print Server Web Pages" field was missing in the Network Services section of printer settings.</li> <li>• Corrected an issue where some printer settings fields were not disabled when the printer went offline.</li> </ul> |

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|             |          | <ul style="list-style-type: none"> <li>• Corrected the color of the alert when both a certificate expiring and error condition exist at the same time.</li> <li>• Corrected an issue where PPME could consume an excessive amount of resources and become unresponsive.</li> <li>• The installation guide has been updated.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 29 Mar 2022 | 3.3.7607 | <ul style="list-style-type: none"> <li>• <b>IMPORTANT note when upgrading:</b> Due to a change in the database structure, any assigned static IP addresses will be lost when upgrading to a 3.3.x version from a 2.1.x or 3.1.x version. This only affects the assignment in the PPME user interface, printers will retain their static IP address.</li> <li>• The installer has been updated to detect if port 80 is in use and allow a different port to be specified.</li> <li>• The installer has been updated to prevent an upgrade using a different user account to the one used for the initial installation.</li> <li>• The installer has been updated to recommend a permanent service account is used to install the application.</li> <li>• The EULA has been updated.</li> <li>• Corrected an issue that prevented services starting if there was conflict with port 8000.</li> <li>• Corrected an issue where printers running a Link-OS version lower than 2.5 were included in "select all" in the discovery list. They are no longer included in "select all" since they cannot connect to PPME.</li> <li>• The ZE511 and ZE521 models have been added to the base printer models for creating profiles from file.</li> <li>• When creating a network configuration that uses Wireless Encryption and Authentication, the Security Username field now supports up to 64 characters. This requires all printers are running Link-OS 6.6 or later.</li> <li>• Updated the placeholder text in the Username field on the Certificate Authority Configuration screen to show the field entry should be in the format Domain\Username.</li> <li>• The username and password fields in the SMTP Settings section of the Configuration screen are no longer required fields. This allows adding a server that doesn't require authentication.</li> </ul> |

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|             |          | <ul style="list-style-type: none"> <li>• Added buttons in the 'Weblink for Printer Connections' section of the Configuration screen to download a file containing commands needed to manually configure a printer to connect to PPME.</li> <li>• PostgreSQL has been updated to version 14.2-1.</li> <li>• The Java version has been updated to 17.0.2.</li> <li>• Corrected an issue that prevented profiles being created from a printer if .CSF font files were stored on the printer.</li> <li>• Improved the printer reclaiming function on the discovery screen by removing the Reclaim buttons. It's now possible to select individual or all printers to reclaim.</li> <li>• Corrected an issue where the "Case Sensitivity" option did not work when creating an Auto-Tag and using the Regex match type.</li> <li>• The Certificate Management Item section has been improved to allow additional Subject Alternative Name types of User Principle Name and IP address to be added to the certificate.</li> <li>• Improved how the interaction of setting printer tone and printer darkness is handled in the UI. This applies to mobile printers that have different darkness ranges for ZPL and CPCL darkness/tone types.</li> <li>• Added the ability to provide PPME with a csv file containing a list of subnets to search and add printers.</li> <li>• When creating a profile from printer, NRD certificate files are no longer retrieved and added to the profile. Certificates can be added manually to the profile from the resources section.</li> <li>• Corrected an issue where a new ECDSA key size was not saved if you edited a Certificate Management Item.</li> <li>• Corrected an issue where both a key size and curve were included after editing a Certificate Management Item and changing the encryption algorithm.</li> <li>• Added support for the ZT231 printer model.</li> <li>• The installation guide has been updated.</li> <li>• The help system has been updated.</li> </ul> |
| 17 Jan 2022 | 3.2.7563 | <ul style="list-style-type: none"> <li>• <b>IMPORTANT note when upgrading:</b> Due to a change in the database structure, any assigned static IP addresses will be lost when upgrading to a 3.2.x version from a 2.1.x or 3.1.x version. This only affects the</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

assignment in the PPME user interface, printers will retain their static IP address.

- The following Apache Log4j vulnerabilities have been addressed.
  - <https://nvd.nist.gov/vuln/detail/CVE-2021-44228>
  - <https://nvd.nist.gov/vuln/detail/CVE-2021-45046>
  - <https://nvd.nist.gov/vuln/detail/CVE-2021-45105>
  - <https://nvd.nist.gov/vuln/detail/CVE-2021-44832>
- The following Logback vulnerability has been addressed.
  - <https://nvd.nist.gov/vuln/detail/CVE-2021-42550>
- jQuery has been updated to version 3.6.0
- The stompjs library has been updated to version 6.1.2
- Improved error messages related to connecting to a CA. Previously, a "server redirected too many times" message was displayed.
- Corrected an issue where operations listed in the operation logs would show pending and not update to a completed state.
- The Java mail library has been updated so it's compatible with Java JDKs which require TLS1.2
- Users can no longer add printers running a Link-OS version lower than 2.5 as they cannot connect to PPME. Previously this caused the printers to show in PPME in the *Adding Failure* state as they are not able to connect.
- Printer images have been added for the ZE511 and ZE521 models.
- Users can no longer delete a CMI if it's associated with a Network configuration.
- The add printers from CSV file option has been expanded to support both IP addresses and DNS names.
- Corrected an issue where deleting an object from a profile also caused certificate resources to be deleted.
- Corrected an issue where the Gather Application Analytics option did not show the correct state when returning to the configuration page.
- Corrected an issue where tags were not created and associated as part of the Tagging Policy after a printer OS update was performed.
- Corrected an issue where re-ordering or re-arranging of tags didn't work when more than 20 tags existed.

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|             |          | <ul style="list-style-type: none"> <li>• Corrected the sort order of Network configuration items.</li> <li>• Corrected an issue where re-ordering tags by number of printers didn't work.</li> <li>• Corrected an issue where the generic printer image did not display if a printer model image is not present. This might occur if a newly released or beta printer model is connected to PPME.</li> <li>• Improved handling of the license related fields in the login screen.</li> <li>• Corrected an issue where the start date of a repeating provisioning item would be empty if the time zone set is earlier than the local time zone.</li> <li>• Corrected an issue where the result displayed on the message after generating a UI certificate may not be correct.</li> <li>• Corrected an issue where an object could not be downloaded to the local computer from the printer landing page objects tab if the resource was added to the printer from a source other than PPME.</li> </ul>                                                                                                                                                                                                                                                                                           |
| 30 Sep 2021 | 3.2.7515 | <ul style="list-style-type: none"> <li>• <b>IMPORTANT note when upgrading:</b> Due to a change in the database structure, any assigned static IP addresses will be lost when upgrading to a 3.2.x version from a 2.1.x or 3.1.x version. This only affects the assignment in the PPME user interface, printers will retain their static IP address.</li> <li>• The licensing components have been updated.</li> <li>• Port 80 is no longer required for the license system to work. It now uses port 443.</li> <li>• Added the ability to enable license logging for troubleshooting purposes.</li> <li>• Corrected an issue where the private key was not stored on the printer when sending a Network configuration.</li> <li>• For consistency with the printer front panel displays, a printer in a PAUSED state is now displayed as a warning. Previously it was displayed as an error.</li> <li>• Added the ability to specify a certificate template name when using a Microsoft AD CS CA server.</li> <li>• The UI certificate generated by PPME now contains the DNS name in the certificate SAN field.</li> <li>• In the CMI certificate information section, <i>MAC address</i> is renamed to <i>Wireless MAC address</i> in the common name field. Selecting this option</li> </ul> |

now forces use of the printer's wireless MAC address. Previously it used the active MAC address.

- In the CMI certificate information section, the printer Friendly Name has been added as a selection for the Common Name field.
- Corrected an issue when sending a profile to many printers that included storing objects where the objects may not have been stored on all printers.
- Notifications relating to the license are no longer sent to users with a Technician role.
- Added images for new printer models.
- Corrected some broken help topic links.
- The installation guide has been updated.
- Usage of the certificate management feature is now gathered when *Gather Application Analytics* is enabled.
- Auto-Tags are now indicated by green tag icons to distinguish them from Manual Tags which are indicated by blue tag icons.
- Corrected an issue where a suspended provisioning item prevented other scheduled provisioning events from executing.
- Improved the "Malformed subnet search address " message when exceeding the subnet search range.
- Added a new Tagging Policy feature. This can be enabled under Beta Features in the configuration section.
- Printers can now be added to PPME using a list of known IP addresses.
- The system log now includes the name of the profile that has been sent.
- Corrected an issue where the import button for the UI certificate was disabled.
- Corrected an issue where the PPME service may not start after upgrading from 2.x to 3.x. This could occur if a UI cert had been imported in the 2.x version.
- Corrected an issue where certificates files couldn't be added to a Network configuration from Resources.
- Corrected an issue where WLAN certificates were not stored on the printer with the correct filename when sent in a Network configuration.
- Corrected an issue that prevented the PPME service starting if the elastic-search service took a long time to start due to the size of its

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|             |            | <p>database.</p> <ul style="list-style-type: none"> <li>• When proxy settings are configured, they are no longer used for connection to the CA certificate server.</li> <li>• For printers that support a <i>print.tone.format</i> setting of zpl or cpcl, the darkness is now set correctly.</li> <li>• The Java version has been updated to 11.0.8.</li> <li>• In Profiles, Objects has been renamed to <i>Files to Store</i> and Objects to Process has been renamed to <i>Files to Process</i>.</li> <li>• Added an option in Profiles &gt; Files to Store to select whether or not files will be deleted from the printer when sending a profile. Previously files were deleted when sending a profile. This option does not apply to Card printers.</li> <li>• Added a Check FQDN option that applies when uploading certificates for the printer weblink connection.</li> <li>• Corrected an issue that prevented profiles working when upgrading to Link-OS 6.3 or downgrading from Link-OS 6.3.</li> <li>• Corrected an issue where the WEBLINKx_CERT.NRD and WEBLINKx_CA.NRD files were not removed from the printer if the printer connection changed from Advanced to Basic.</li> <li>• If the printer connection is changed from Advanced to Basic, the certificates for the Advanced connection are now deleted from the printer.</li> <li>• Added the ability for Administrators to remove a user. Users created in the Local Directory can now be deactivated or removed.</li> <li>• Other fixes to improve stability and performance.</li> </ul> |
| 25 Sep 2020 | v3.1.7146A | <ul style="list-style-type: none"> <li>• Corrected an issue that caused an "Error parsing provided certificate" message when configuring a CA. Handling the URL that is requesting authentication has been corrected. This applies to the Microsoft AD CS CA type server only (not Microsoft AD CS NDES or EJBCA servers).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 13 Sep 2019 | v3.1.7124  | <ul style="list-style-type: none"> <li>• Added ZC1X0 and ZC3X0 series card printer support</li> <li>• Added a setup wizard on new installations to assist with initial configuration</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|-------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |           | <ul style="list-style-type: none"> <li>• Added a new Auto-Tag feature which allows printers to be automatically tagged based of a printer setting</li> <li>• Added a new wireless certificate management feature which allows customers to setup automatic updates of their printer's wireless lan certificates. This feature requires printers to have Link-OS 6 or later installed, and it supports the following Certificate Authority servers: <ul style="list-style-type: none"> <li>◦ Microsoft ADCS: Microsoft Certification Authority 10.0</li> <li>◦ Microsoft ADCS NDES 2019: Microsoft Certification Authority 10.0</li> <li>◦ EJBCA-SCEP: EJBCA 7.1.0 Enterprise</li> </ul> </li> <li>• Improved database disk use</li> <li>• Other minor bug fixes</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 30 Mar 2018 | v2.1.6633 | <ul style="list-style-type: none"> <li>• Improved the tag filtering on the Device Listing Page.</li> <li>• Improved the searching capability of the System Log.</li> <li>• The Device Listing Page now supports the ability to export all printer settings to a CSV file.</li> <li>• Added the ability to delete multiple printers at once from the Device Listing Page.</li> <li>• Added a new Battery Monitoring Feature (BETA) that allows customers to individually monitor the batteries for their mobile devices. This feature can be enabled and disabled. Please note, it can take the app up to 15 min to gather enough data to create a trend line chart for each battery.</li> <li>• Improved the visibility of issues that can arise when adding a printer and improved the steps to resolve those issues, reducing the need to communicate directly with the printer when troubleshooting.</li> <li>• Analytics gathering can be enabled to store all printer settings in the Elasticsearch document store so they may be queried for report generation and other analytics. Note that turning on the Analytics function can greatly increase the hard drive space the app uses and will also cause the app to attempt to open a connection to the cloud-based Zebra Printer Connector to communicate the data it has gathered.</li> <li>• Updated the Java Virtual Machine to version 8.0.151</li> </ul> |

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|             |          | <ul style="list-style-type: none"> <li>• Updated Elasticsearch to version 5.6.5</li> <li>• Updated Postgresql to version 10.1-3</li> <li>• Added support for newer printer firmware versions and printer models.</li> <li>• Added the ability to specify a CA Certificate for LDAP.</li> <li>• Other minor bug fixes.</li> </ul>                                                                                                                                                                                                       |
| 01 Oct 2017 | 2.0.6353 | <ul style="list-style-type: none"> <li>• Updates to LDAP configuration will no longer remove existing LDAP users.</li> <li>• Added support for newer firmware versions and printer models.</li> <li>• The installer has been updated to allow for upgrades of Printer Profile Manager Enterprise (see General Notes).</li> </ul>                                                                                                                                                                                                       |
| 12 Jun 2017 | 2.0.6301 | <ul style="list-style-type: none"> <li>• Addressed stability issues when updating the printer operating system for a 1000+ printers at one time.</li> <li>• Require customers to configure Domain Name Server address when they are setting static addresses on printers. Note that the printers using static addresses will have their DNS configuration overwritten when they are added through the PPME application.</li> <li>• Weblink logs shown for printers in offline or adding states on the Printer Details Page.</li> </ul> |
| 31 Mar 2017 | 2.0.6194 | Initial release.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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