



Publishing Platform for Retail Version 10.4 Release Notes

The Lexmark™ Publishing Platform for Retail (PPR) signage solution is a system for printing and publishing signs, labels, and tags that are used in retail stores.

The system is also used for the following tasks:

- Printing paper signs using in-store laser printers
- Producing large volumes of press-ready output using high-speed printers at a central location
- Printing signs and labels using a mobile device or wireless computer
- Publishing digital signs, electronic shelf labels, or digital displays

This document provides information on the versions of PPR and its release history.

PPR version 10.4 components

Component	Version number
In-Store Publisher	10.4.0.197
Publishing Services	10.4.0.100
Central Publisher	10.4.0.54
Platform Administrator	10.4.0.54
Template Designer	10.4.0.56
Publishing Engine	10.4.0.94
Publishing Engine for Linux	10.4.0.32
Publishing Manager	10.4.0.54
Export Utility	10.4.0.21
In-Aisle Publisher	10.4.0.54
Database	10.4.0.79
Publishing Authenticator	10.4.0.47

Note: PPR v10.4 web components work with Print Control service v11.0 and above.

Release History

Version 10.4, released September 2021

In-Store Publisher

Added support to enable the following:

- Restricting sign / batch edit and delete permissions by batch source, role, store, and store group.
- Configuration for multiple ISP configuration parameters through ISP profile and properties.
- Receiving real-time item prices and other item information from external sources during sign creation.
- Enhanced logging activity details for signing in, signing out, and editing signs activities in the AvPublishingActivity table for reporting
- Routing print job to printer via IP / DNS Winsock. Administrators can configure this feature at any profile class level.
- PostScript native printing for both server and local printing. Administrator can configure this feature at any profile class level.

- Configuring different Print Control properties (output types, print methods, and access levels) from ISP Configuration. Administrators can configure this feature at any profile class level.
- Using **Template Assignment Rule** as defined in Platform Admin when creating or modifying signs. Administrators can configure this feature at any profile class level.
- Working with Print Control service regardless of application version. Users must install Print Control version 11 or later.
- Localizing batch view, name, and description, in both the home page and **Batches** page with configurable values.
- Improving security by upgrading third-party libraries.
- Upgrading the underlying UI framework to Angular 10.

Publishing Services

- Enhancing logging activity details for signing in, signing out, and editing sign activities in the AvPublishingActivity table for reporting
- Improving store level data access security.
- Improving security by upgrading third-party libraries.
- Simplifying the installation process by removing database from the installer.
- Upgrading the underlying framework .NET version to v4.8 for better performance and security.
- Modifying the install & uninstall SQL scripts and combining with database upgrade scripts.

Central Publisher

- Enhancing activity logging values for publishing, signing in, and signing out in the AvPublishingActivity table for reporting.
- Working with Print Control service regardless of application version. Users must install Print Control version 11 or later.
- Enhancing publishing activity logging for automated and server-side print.
- Improving sign and batch print status for partial and complete print.

Platform Administrator

- Upgrading underlying framework .NET version to 4.8 for better performance and security.
- Removing unused ISP configuration keys from the installed master data.

Publishing Engine

Added support to enable the following:

- Improving error message in publishing call response.
- Publishing from item data provided as input using a new parameter switch (-e), data input accepted as JSON objects.
- Publishing with multiple custom schema / data structures when using new parameter switch (-e), schema definitions defined as JSON objects.

Publishing Engine for Linux

Modifying Linux OS support statement, including addition of RHEL 8 support.

Publishing Manager

Upgrading the underlying framework .NET version to 4.8 for better performance and security.

In-Aisle Publisher

Added support to enable the following:

- Enhancing activity logging values for publishing, signing in, signing out, and editing signs in the AvPublishingActivity table for reporting.
- Upgrading the underlying framework .NET version to 4.8 for better performance and security.
- Enhancing publishing activity logging for server-side print.

Database

Supporting database upgrade by retaining existing ISP configuration (CMS) through command execution.

Publishing Authenticator

This new component supports the following:

- Single Sign-On (SSO) functionality for all PPR UI applications through OpenID Connect protocols against any OpenID Connect certified provider.
- SSO for all PPR UI applications through ADFS 2k12 R2 through OAuth 2.0 protocol.
- Database-based login through a configuration that bypasses SSO login.
- Auto provision of user through configuration.

Issues fixed

- Incident # 640229: From ISP, template assignment rule can be applied.
- Incident # 668056: In Web Services, response timeout is now configurable for ISP.
- Incident # 667394: In ISP, printing multi-Item signs now supports the print ordering defined in CMSPage Print_Control.
- Incident t# 666143: In store with no batches, fixed the errors with creating sings.
- Incident # 663780: Issues fixed with blank screens in different ISP pages.
- Incident # 662984: In Engine, the data break of a multiple-item sign is now applicable only to header data.
- Incident # 661110: In ISP, the sign preview with multiple-item signs that include sign break elements now only shows the sign.
- Incident # 658361: In Engine, data field object processing time now stands same as expression objects.
- Incident # 654601: In Engine, data break now applies to second-page-break conditions as well.
- Incident # 652587: In ISP, the region value is now applicable to batch events and source menus.
- Incident # 652586: In ISP, Starting Date and Expiration Date now show the correct format.
- Incident # 650177: Azure AD SSO works in a load-balanced environment.
- Incident # 650142: In PPM, users can add signs to two different batches appearing in different tabs.
- Incident # 649654: Central automated print file name is now configurable.
- Incident # 635970: Template designer now shows the rules in alphabetical order.
- Incident # 635980: Template designer now shows the updated description, if applicable.

Breakage introduced

Incident # 634376: in ISP, reintroduced defect related to filtering when data has space (" ").

Version 10.3, released December 2020

In-Store Publisher

Added support to enable the following:

- SSO integration with Azure Active Directory.
- Preselecting the last used printer or Windows default printer from the Print Jobs window.
- Configuring default sort columns in Batch, Sign, and Item Library grids.
- Automatically selecting the tray information based on the configuration and availability.
- Navigating to the target batch directly after copying a sign.
- Editing of the batch header information from the sign view page.

Print Control Service

Restricted access to print control service remotely. Users can access print control only from the same client.

Note: You must run a patch on the previous versions of ISP and PPM if coexistence of multiple print control versions is required in the client machine.

Publishing Manager/Platform Administrator

Modified Internet Information Services (IIS) prerequisites.

Note: For more details, refer to the PPM Installation guide prerequisite section.

Issues fixed

- Incident # 641547: Network mapped client printers (for example, \\server\printer) are now accessible from the Print Control.
- Incident # 640917: In ISP, fixed the issue on searching and filtering sign or label records with 0 copies.
- Incident # 641099: In ISP, fixed the issue on print window showing a spinning image instead of the selected paper.
- Incident # 644124: In ISP, fixed the issue on using the up and down arrow keys from the keyboard, in the View Sign grid inside the copy column.
- Incident # 643773: In the configuration batch view, fixed the issue on the error with any date type facet.
- Incident # 645072: In ISP, fixed the issue on the search and filter combination in the item library.
- Incident # 644122: In ISP, fixed the issue on the narrow grid columns.
- Incident # 640946: In ISP, fixed the issue on the Central Print Status filter facet returning multiple **Not Printed** values when statuses are associated with different batches in a view.
- Incident # 640977: In Print Control, resolved the tray locking issue.
- Incident # 643534: In Engine, fixed the issue on duplicate sign printing when a sign break is used in the template.
- Incident # 643534 : In Template Designer, updated the sign break UI to fix the reset page number issue for Page Break.
- Incident # 647642: In ISP, fixed the issue on printing any sign or label with 0 copy.
- Incident # 647309: In ISP, fixed the issue on manually copying a huge number of signs to a new batch which was restricted before due to long URL.
- Incident # 647473: In Print Control, fixed the Check for Server Certificate Revocation setting in Internet Explorer 11 to stop receiving the service error.

Version 10.2, released September 2020

In-Store Publisher

- Upgraded with Angular 8 based implementation.
- Added support for creating a sign from the planogram.
- Choose Template/Change Template UI is now configurable through the API.
- Restored and enhanced Publishing Activity Logging.

Publishing Services

Restored and enhanced Publishing Activity Logging.

Publishing Manager/Platform Administrator

- Upgraded with DevExpress v19 based implementation.
- Removed unused functionalities—Datasource and Director.
- In the Template > Template Info section, Max Items Per Sign (old label: Max Items) and Signs Per Page fields have been marked as required.
- Added SSO support with Azure AD for user authentication and provisioning.

Template Designer

- Added support to function properly for non-administrator users.
- Added support to work with Digimarc encoding as a new bar code symbology. Additional licensing is required.

Print Engine

- Upgraded to LEADTOOLS v20 for the rendering engine.
- Removed support for IsapiFilter. Instead we recommend using IIS built-in Request Filtering module.

Export Utility

Added support to function properly for non-administrator users.

In-Aisle Publisher

- Added support to configure the fields in Price Check.
- Added support to configure the fields in Build Batch > Single Items Sign, Multi Items Sign (for the header and child items), and Copy from Existing Batch.
- Added SSO support with Azure AD for user authentication and provisioning.

Database

- Added support for ODBC Drivers for SQL Server v17 in Windows server.
- Made all schema and data changes between v10.1 and v10.2 available as script files. Refer to Documents/UpgradeScripts.zip for details.
- Added support for SQL Server 2019.
- Deprecated PLANO48 template and instead we introduced FDSTRIP. Existing signs in the sample database using PLANO48 template is now replaced with FDSTRIP.

Discontinued support for

- SQL native client for SQL database connection.
- Template Designer in Windows 7 and all PPR components in Windows Server 2008.
- Earlier version of AV_AddPlanoToBatch stored procedure signature. It must be updated according to the new stored procedure.
- All the x86 component builds except the Print Control Service.

Issues fixed

- GDIPLUS method of rendering is now compatible with Windows socket printing via API calls.
- Modified CloseSocketWait to restrict the engine from terminating the print jobs.
- Fixed issues for certain socket print jobs which generate endless print streams to Zebra printers.
- Resolved intermittent missing print issue due to improper rules in template.
- Fixed issues for a few scenarios where the central print jobs create blank signs.
- Correct response code is received when a query or stored procedure fails in any publishing request.
- No data is lost for large print job when a wrong response is received.
- Resolved socket closing issues when Windows socket printing is done via API calls.
- Resolved issue for large text in Zooja Pro font which floats too high on the In-Aisle Publisher preview.
- Applied security fixes for POC option 7&DOWNLOADFILE to restrict unauthenticated download of any file from the server.
- Rule drop in the data source window is now showing all ruletype=2 in the **SGRu1e** table.
- In Template Designer, fixed the Undo function when a frame is deleted.
- Layer rule descriptions are not lost when a large number of layers are created.
- Resolved the rotating frame issue while printing in 2UP template.
- Fixed issue when exporting template from Microsoft SQL to Oracle related to orphan rows in database and concurrency
- In Publishing Manager, added a filter function for the date option using < and > attributes.
- Fixed supporting multiple drop-down in Sign Edit form in Publishing Manager, when at least one of source drop-down values are SQL statement.
- Fixed the Platform Admin date-time issue for Spanish language.
- Extended search in Publishing Manager now works faster to render data in the UI.
- Fixed the large job preview issue in Publishing Manager by allowing timeout configuration.
- Localized date is now supported for IAP Sign Audit.
- In IAP, the date fields can now be filled as text entry in the Edit Item section.
- Publishing Service now supports the customized view names.
- Publishing Services supports TLS 1.2.
- API/PublishPostScript/File returns a response code on success as specified in the API guide document
- Status date can be recorded whenever the batch is printed.

- API/Resources endpoint now allows OTF fonts to be downloaded.
- As a security fix, API/Resources restricts download of any file outside the allowed directories.
- In ISP, NLS support for Dutch is added.
- User can configure the advanced search feature from the Batch, Sign, and Item library.
- ISP grid's filter & search can support data with space, empty string, and null value.
- Configuration of Dashboard tiles (only the tiles) is now possible in ISP.
- Date picker option is available in the sign edit form in ISP.
- Fixed data loss in the Manual Sign Edit page in ISP during navigation.
- Applied improvements in the Sign Preview window.
- In ISP, the date filter now shows a space between the From and To fields.
- Fixed the rearrangement of columns in the ISP batch view configuration page.
- Last set language remains pre-selected in the Change Language options in ISP.
- Removed extra blank row and column from the grid in Batch View page in ISP
- Fixed Batch Print Status for batches having signs with zero copies.
- Resolved the static image download issue in Internet Explorer for hosted customers.
- Removed the garbage characters from Danish and Norway languages.
- Correct publisher name is displayed when uninstalling Print Control.
- Resolved the paper-tray selection issue on the third job in a loop in a batch in a specific scenario.
- Print control now loads the UAC limitations error message.
- Print Control timeout is configurable to preview the large complex batches.
- Fixed Microsoft Print-to-PDF-hang issue while printing through Print Control.
- User can lock the printer tray selection box using the print control settings.
- Enhanced loading of localized strings in the Sign Edit page.
- Fixed security issue of privilege escalation in PPM in classic AD/Azure AD SSO environment.

Version 10.1, released December 2019

In-Store Publisher

- Added support for web browser back, forward, and refresh functions.
- Added support for tabbed browsing.
- Added ability to remember grid page numbers.

Print Control Service

Added support for multiple-user active sessions.

Publishing Manager

Added support for grid configuration.

Other platform updates and fixes

- Security improvement.
- Added support for the Windows Server 2019 operating system.
- Fixed the following issues:
 - Distorted bar codes.
 - Bar codes that cannot be scanned.
 - Continuous print jobs that are sent to the printer using the ZebraDesigner driver.
 - Rule drop in the data source window not showing all rules in the **SGRu1e** table.
 - Fast control switching not working on Print Control Service.

Version 10.0, released September 2019

This release introduces a new design for the In-Store Publisher component.

In-Store Publisher

- **Improved security and adaptability**—The In-Store Publisher component of PPR is built on an advanced application-development platform. The platform improves the security and makes In-Store Publisher accessible in mobile devices.
- **Dashboard**—The In-Store Publisher home page is updated to include six common tasks in grid view.
- **Tree-filter view**—Narrow down the search results using the tree filter.
- **Improved search**—Define search criteria to get specific search results.
- **Browser-based print control**—Use print functions without installing the Print Control client.
- **Live sign preview**—Preview the label immediately.
- **Administrator page**—Configure the following In-Store Publisher features:
 - **Custom UI**—Change the UI strings.
 - **Grids**—Set the batch and sign view pages to grid view.
 - **Tree Filter**—Configure the sign and batch view parameters that appear on the tree-filter view.
 - **Search**—Specify the batch and sign columns that are searchable.
 - **Batch View**—Create or configure a batch view. You can also configure the columns and tree-filter view.
 - **Sign View**—Create or configure a sign view. You can also configure the columns and tree-filter view.
 - **Library configuration**—Customize the appearance of the item, sign, and batch libraries. You can also select columns, reorder entries, and apply filters.
 - **Idle timeout value**—Sets the time of inactivity before the current user logs out from the portal automatically.
 - **Default template**—Sets a template for new signs.

Publishing Services

Added new API services for In-Store Publisher operations. For more information, see the *Lexmark Publishing Services API Guide*.

Database

- Added support for Microsoft Visual Studio 2017 Redistributable v14.16.
- Updated the PPR database.

New database tables	New or modified database views
CMSContents CMSPages	MemberView SignItemStateView SignBatchStateView SignBatchStateViewWithStatusColumns SignItemTemplatePaperView BatchSignItemTemplatePaperView StoreItemPriceView BatchTypeSuiteView

The updates in the database schema include the following improvements:

- A few records that are specific to role access are inserted in the AVProfileProperty table.
- A few records, such as SQL trigger blocks, are inserted in SGSQL. The records can be identified as SQLNAME column values that start with **WS**.
- A few records that are specific to In-Store Publisher configurations are inserted in SGSTEM. The records can be identified as KEYNAME column values that start with **ISP**.

Other platform updates and fixes

- The new installer file for In-Store Publisher is **PPRUIInstaller.exe**.
- Fixed the following issues:
 - Print Control Service timeout that prevents large or complex batch preview.
 - Printing error from a web document submission software or WDSS (fixed with the use of ZebraDesigner Driver).
 - Installation failure due to the inability of the platform to recognize the current version of Microsoft Visual Studio.
 - Failure of Print Control Service to load with user account control (UAC) limitation error.
 - Rotating frames on Template Designer.
 - Missing print on PPR for Linux.
 - For Zooja Pro font, text that floats too high on the In-Aisle Publisher preview.
 - Publishing manager preview issue.

Appendix

Product limitations

Platform Administrator and Publishing Manager

- The following Publishing Manager settings do not affect the In-Store Publisher portal:
 - In-Store Publisher Application settings in the System Configuration menu
 - SGLangWeb and SGLangCust settings from the In-Store Publisher UI Translations section in the System Configuration menu
- The images that are uploaded in the Publishing Manager must be copied to the In-Store Publisher location manually. If Publishing Engine is installed in a separate directory, then the images must be copied to the Publishing Engine location.

Note: The Publishing Manager and Publishing Engine must be installed on the same directory.

In-Store Publisher

- Print Control Service configuration is not available in the portal.
- Having multiple user sessions on different web browser tabs is not supported.

Known platform issues

- In some web browsers, the In-Store Publisher portal may become unresponsive when accessed using the back button.
- Editing or creating a sign may become unresponsive for large batches.
- If you use a web browser managed by Citrix[®], then local printers are not available in the Print Control Service.
- If In-Store Publisher is opened in multiple tabs, then logging out from one tab may cause other tabs to become unresponsive.
- If the Item Library is refreshed when creating a multiple-item sign, then an error message appears.

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