MERIDIAN

RELEASE NOTES

2023

Contents

Accruent Meridian Enterprise 2023 Release Notes

We're delivering this upgrade on July 28, 2023, with the following highlights:

- **Autodesk 2024 family support** – Work with the latest Autodesk products integrated in Meridian workflows.

- **3D BIM IFC viewer** – View 3D IFC models and inspect asset data in a web application without having to download or install a local application.

- **Performance improvements** – Several improvements to provide better performance on large vaults.

- **Add print stamp to downloaded rendition** – Show clear and concise status on each hard copy to prevent inappropriate use.

- **OAuth 2.0 for SharePoint Publisher** – Increase the security of the integration between Meridian and SharePoint.

Administration Improvements

Summary	Reference #
When a user browses to a Meridian client but does not have an account in Enterprise Server, an account was automatically created. As result, the user could enter the client and a license is claimed. As this is not always desired, we implemented an option to disable automatic creation of a Meridian account when a user browses to a Meridian client. If this option is enabled and the user does not have an account, a page appears saying that the user has no access. To learn how to configure this setting, see *Create And Edit User Accounts* in the *Meridian Enterprise Administrator's Guide*.	MPS-47049 MPS-47651 MPS-47652
In Meridian Enterprise ServerAdministration Console, you can now enter a value to filter all columns in the list of user names. To learn how to configure this setting, see *Create And Edit User Accounts* in the *Meridian Enterprise Administrator's Guide*.	MPS-24726

Application Link Improvements

Summary	Reference #
The AutoCAD 2024 family is now supported. Autodesk Inventor 2024 and Autodesk Revit 2024 are now supported. To learn more, see *AutoCAD Family Applications* in the *Meridian Enterprise Supported Software*.	MPS-50308

Client Improvements

Improvements apply to the PowerWeb client application unless otherwise stated.

Summary	Reference #
We fixed an issue that caused documents to be editable in LWS while these documents weren't editable by the user in the vault. That led to errors in the workflow transitions.	MPS-50738
Some users were getting an issue that caused TOC layouts to be distorted during synchronization. As a workaround, you can configure the new SkipToC registry value so that the synchronization skips the TOC. To learn how to configure this setting, see *HKEY_LOCAL_ MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\Client* in the *Meridian Enterprise Administrator's Guide*.	MPS-50953
We fixed an issue that caused vault icons generated by Application Integration not to appear in Windows 11.	MPS-50650
If you click a folder or navigation level that contains a number of items larger than a pre-configured limit, instead of listing the items, a pane appears with the following options: **Search by name** and **Quick Search**. For navigation views, this feature doesn't consider the selected level. This as a limitation that will be addressed in a future release. If you select a document and the number of incoming or outgoing references is larger than the number for the pre-configured limit, only that number of references appear. In this case, a message appears saying that there are too many references. The reason for these limitations is that showing a large number of items might affect performance. The default limit number is 3000. This number is defined by the MaxItemsInList value. To learn how to configure this setting, see *HKEY_LOCAL_ MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\WebLink* in the *Meridian Enterprise Administrator's Guide*.	MPS-49638 MPS-50455 MPS-50456 MPS-51256

Summary	Reference #
You can now rename a Static Collection in PowerWeb. To learn more, see *Create And Edit a Collection* in the Meridian Enterprise User's Guide.	MPS-41024
We included new registry key settings to configure Site Cache Client connection retries. The ConnectionRetries value controls the maximum number of retries. The ConnectionRetryInterval value controls the time interval between retries. The LogDetails value controls the recording of retries in the log. To learn how to configure this setting, see *HKEY_LOCAL_ MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\Client* in the *Meridian Enterprise Administrator's Guide*.	MPS-52472
This update applies to the following case: you are logged into PowerWeb, a default domain name is configured for an electronic signature, a workflow is configured with e-signature on a transition , you are not in the default domain for your e-signature, and you have a document selected. Now if you execute the workflow transition with the e-signature in these conditions, you don't need to include the domain name in your user name. To learn more about electronic signatures, see *Configure Authentication* in the *Meridian Enterprise Configuration Guide*.	MPS-48013
We fixed an issue that caused the **User Name** field to be disabled sometimes when authentication is configured to use the Site Cache Client. This field is now always editable.	MPS-51796
In PowerWeb, when you select a batch of documents to download a PDF rendition for printing, the renditions are now added to a PDF Portfolio. If print stamps are configured for the documents, they are added to the PDF Portfolio. We renamed the **Print Renditions** option in PowerWeb to **Download for Print**. Use this option to download a batch of renditions for printing.	MPS-52323 MPS-49106
We fixed an issue that caused a "Type mismatch" message to appear when double-clicking a document that is not locked and is in Quick Change on the To-Do List of another user. Documents in this situation are now synchronized to the LWS as read-only files and will not be locked.	MPS-52705
You can now view PDF renditions when Site Cache is disabled.	MPS-51910
When downloading a batch of documents, the source files and their CAD references are now added to a .zip archive. *To learn more, see Download Documents in the Meridian Enterprise User's Guide.*	MPS-33881
When downloading a batch of renditions, the renditions are now added to a .zip archive. To learn more, see *Download Renditions* in the *Meridian Enterprise User's Guide*.	MPS-48225

Summary	Reference #
You can now view renditions using a Site Cache server that is in a different domain from the one of the WebAccess server.	MPS-51882
You can now attach renditions via the Site Cache Client. This option in particularly useful if you need to view a model with the IFC viewer which requires uploading a large rendition file. To learn more, see *Add Documents Content and Attach Renditions with Local Workspace Client* in the *Meridian Enterprise User's Guide*	MPS-47862 MPS-51783

Configuration Improvements

Summary	Reference #
We included new registry key settings to configure Site Cache Client connection retries. The ConnectionRetries value controls the maximum number of retries. The ConnectionRetryInterval value controls the time interval between retries. The LogDetails value controls the recording of retries in the log. To learn how to configure this setting, see *HKEY_LOCAL_ MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\Client* in the *Meridian Enterprise Administrator's Guide*.	MPS-52472
OAuth 2.0 is now available for using Microsoft SharePoint as a destination system. To learn how to configure this setting, see *SharePoint System Link* in the *Meridian Enterprise Administrator's Guide*.	MPS-51756

VBScript Customization Improvements

Summary	Reference #
Executing a custom command that accesses data in the User.Profile object in PowerWeb now returns the data set in your user profile. Previously, values in the User.Profile script object were initialized only when a new profile was created.	MPS-42904

Viewer Improvements

Summary	Reference #
We extended support to redlines to more PDF viewers. You can view redlines using WebViewer, Chrome, Edge, and Adobe Acrobat Reader.	MPS-52883
You can now view 3D IFC models and inspect asset data in a web application without having to download or install a local application. To learn how to install the components for using this feature, see *Install Apryse BIM Server* in the *Meridian Enterprise Administrator's Guide*.	MPS-50338

Explorer Improvements

Summary	Reference #
Users with the **Repository Administrator** and **Application Administrator** privileges can now delete packages created by other users. This feature can be used to delete packages created by people who left the company. To learn more, see *View And Edit a Package* in the *Meridian Explorer User's Guide.*	MPS-40168
We fixed an issue that caused the PDFTron viewer to use the XOD file even if **Enable XOD** viewing is not selected.	MPS-49295
You can now view PDF renditions when Site Cache is disabled.	MPS-51910
We extended the maximum number of results that appear when using a filter URL to 1,000. To learn more, see *Compose View URLs* in the *Meridian Enterprise Administrator's Guide*.	MPS-49926

Publisher Improvements

Summary	Reference #
OAuth 2.0 is now available for using Microsoft SharePoint as a destination system. To learn how to configure this setting, see *SharePoint System Link* in the *Meridian Enterprise Server Administrator's Guide*.	MPS-51756

Known Issues

Summary	Reference #
Enable XOD viewing does not work if the user accesses the client using localhost://.	MPS-49295
If you have an Autodesk document file (such as .iam or .dwg) available in the vault and open the vault in a Windows 11 workstation, when you download the document using Site Cache mode, the Windows dialog to select the application to open the document with doesn't appear. As a workaround, you can download the document to the LWS folder and open it from there.	MPS-53419
Load testing has shown that the memory consumption of the Meridian IIS application increases continuously if the PowerWeb client is set to ActiveX mode. This does not affect the PowerWeb IIS application and the case in which the PowerWeb client is set to Site Cache mode. If the majority of your users are using ActiveX mode and the Meridian IIS application, we recommend that you recycle the Meridian IIS application daily. This issue is under investigation and a patch will be published as soon as possible.	MPS-53703

2022 R2 Release Notes

The release date for Meridian Enterprise 2022 R2 is February 8, 2023. Major improvements in this release include:

- 3D IFC Viewer (evaluation version)
- Retry logic for email notification

Additional minor enhancements, third-party application support, and bug fixes are also included. The following sections describe the specific changes and improvements in this release.

Administration Improvements

We made these improvements to Meridian Enterprise administration. For more information about these improvements, see the articles referenced in the descriptions below.

Administration improvements

Reference	Description
MPS-48197	Due to Microsoft's upcoming deprecation of the Azure AD Graph API, we migrated some of our code to the Microsoft Authentication Library (MSAL). No action is required for customers implementing 2022 R2, but customers using Azure Active Directory for user synchronization in older versions of Meridian Enterprise will need to install a new version of the **BlueCieloECM.EnterpriseService.Common.dll** file.
MPS-47827 MPS-48954	You can now configure the number of retry attempts that Enterprise Server will make if an email notification fails. The default value is **3**, and the maximum value is **20**. This setting is used when Enterprise Server tries to notify you about the status of Meridian Explorer synchronization jobs or the results of a publishing job. To learn how to configure this setting, see *Specify a Mail Server* in the *Meridian Enterprise Server Administrator's Guide*.
MPS-45892 MPS-48953	You can now configure the number of retry attempts that the Meridian Application Server will make if an email notification fails. The default value is **3**, and the maximum value is **20**. This setting is used when the vault is configured to send notifications upon a workflow transition. This value is stored as part of the **MailServerParameters** setting in the HKEY_LOCAL_ MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\Installed DataStores\<vaultname> registry key. To learn how to configure this setting, see *Specify a Mail Server* in the *Meridian Enterprise Administrator's Guide*.

Reference	Description
MPS-30885 MPS-48239	You can now configure Enterprise Server to remove Portal import packages which have been successfully imported or closed. This functionality allows you to remove unneeded data and clear up disk space. To learn how to configure this option, see *Remove Imported Portal Packages* in the *Meridian Enterprise Server Administrator's Guide*.
MPS-34474	When the **Change Priorities** command is executed for a waiting project copy, the **Object ID**, **Object Name**, and **Object Path** fields are now populated in the **Audit Log**. To learn about the **Change Priorities** command, see *Manage a Waiting List* in the *Meridian Enterprise User's Guide*. To learn how to view the **Audit Log**, see *View the Audit Log* in the *Meridian Enterprise Server Administrator's Guide*.
MPS-47093	The **Rendition Format** and **File Type** fields have been added as columns to the metadata spreadsheet for import packages. • If the **Rendition Format** field is not included as a column, the extension of the rendition file will be used to set the rendition format. • If the **File Type** field is not included as a column, the file type will be set as the uppercased extension of the document name, concatenated with the word "File". For example, the file type for the file ABC123.dwg would be "DWG File". To learn more about the metadata spreadsheets used for import packages, see *Create a Property Mapping Template* in the *Meridian Enterprise Server Administrator's Guide*.
MPS-49552	If there is a difference between the server clock and the client workstation clock, a file may be incorrectly treated as being newer in the vault than in the user's local workspace. To address this issue, you can now add a new **LWSConflictTime** registry key value to the HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\Client registry key. This registry key value tells Meridian Enterprise the maximum allowable difference between the server clock time and the client workstation time in seconds. The default value of this registry key value is **1**. See the *Registry Keys* section of the *Meridian Enterprise Administrator's Guide* for more information about this registry key.

Reference	Description
MPS-47390 MPS-47625 MPS-49359	VBScript allows you to display or hide pages and commands depending on the value of a property. If your configuration is complex this could result in decreased performance when the user is editing a property or wizard page, because PowerWeb needs time to evaluate these visibility expressions. The new **DisableVisibilityExpressionsOnEdit** registry key value in the HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\WebLink registry key controls if PowerWeb should check your VBScript for visibility expressions when the user is editing a property or wizard page. You should configure this setting if your configuration is complex and the visibility expressions in your VBScript are resulting in lag time. **0** (default) – PowerWeb evaluates the visibility expressions as configured in the Configurator. **1** — When a user is editing a wizard page, PowerWeb does not evaluate visibility expressions related to the display of property pages. **2** — When a user is editing a wizard page, PowerWeb does not evaluate visibility expressions related to the display of commands. **4** — When a user is editing a property page, PowerWeb does not evaluate visibility expressions related to the display of property pages. **8** — When a user is editing a property page, PowerWeb does not evaluate visibility expressions related to the display of commands. To apply multiple settings at the same time, combine their respective values. As an example, to disable both property page visibility and command visibility expression when editing property pages, combine **4+8**. The result is **12**, which is the value you should use. See the *Registry Keys* section of the *Meridian Enterprise Administrator's Guide* for more information about this registry key.
MPS-50017	We are debuting a new IFC Viewer Rendering Module. This rendering module allows you to view 3D models in the PDFTron viewer. If you would like to help the Meridian team evaluate this new functionality, please reach out to your Accruent representative. They will enroll you in our Early Adopter program and assist you with installation. To learn how to configure the IFC Viewer Rendering Module, see *Configure the IFC Viewer Rendering Module Options* in the *Meridian Enterprise Server Administrator's Guide*.
MPS-49040	We resolved an issue that caused SAML not to function in the 2022 release. This fix involves a new .dll file, which is included with the installer for 2022 R2. This .dll file works with the Meridian IIS application, but not the new PowerWeb IIS application.
MPS-42273	We resolved an issue which prevented Hypertrieve from switching to multi-threading mode (which allows multiple concurrent queries to the database) *after* startup if a user performed a query *during* startup, when Hypertrieve is in single-threading mode (which only allows one query at a time).

Reference	Description
MPS-49105 MPS-47534	When you install the PowerWeb components during setup, Meridian now installs the components necessary to add print stamps to PDFs before the PDF is downloaded. To add a dynamic print stamp to a downloaded document, you will need to configure the print stamp in your VBScript. The print stamp can only be applied to a single document at this time; batch printing is not supported in this release. To learn how to configure print stamps in your VBScript, see *Configure Watermark Printing* in the *Meridian Enterprise Configuration Guide*.

Client Improvements

We made these improvements to Meridian clients. Improvements apply to the PowerWeb client application unless otherwise stated.

For more information about these improvements, see the articles referenced in the descriptions below.

Client improvements

Reference	Description
MPS-43546	If you have linked a project folder to Portal, you can access the Portal revision history of the documents in the folder by clicking a link on the **Document** property page. The same link will display regardless of whether you are viewing the current revision or a prior revision. If you are not currently signed in to Portal, you will first need to sign in. To learn how to link a project folder to Portal, see *Link Folders To Meridian Portal* in the *Meridian Enterprise User's Guide*.
MPS-44473	If a user clicks a reference on the **References** property page, PowerWeb switches to the **Folders** view if the referenced document is not visible in the current view.
MPS-27806	On the **Tags** property page, we have moved the **Unlink** button to the top of the pane, to the right of the **Find Tags** button. The **Unlink** button does not appear if the **Tags** list is empty. See the *Tags* section in the *Meridian Enterprise User's Guide* to learn more about the **Tags** property page.
MPS-48348	Users without the **Edit Tag Assignment** privilege can no longer see the **Unlink** button on the **Tags** property page. Additionally, users can no longer see the **Unlink** button on the **Tags** property page for outdated revisions.
MPS-28738	When you change the value of a single-select lookup list on a property page and switch to the **Rendition** property page, the changes you made on the previous property page are no longer erased.
MPS-46746	Previously, if the user replaced the content of a document, renamed the document, and then downloaded the document to their local workspace, the content of the renamed document would be the previous revision of the document. To resolve this issue, Meridian now updates your site cache when you replace the content of a document, ensuring that the most recent revision is downloaded.
MPS-45016	If the **New Folder** command is disabled for a scope, a user who is using that scope can no longer create a folder when creating a project copy.

Reference	Description
MPS-37560	If a user makes changes to properties on a property page and they press the **Enter** key on their keyboard, their changes are saved, instead of the document becoming locked.
MPS-45676	The correct version of a document now downloads as expected when the user double-clicks the document to open or download it during a Quick Change or custom workflow. This issue only occurred when PowerWeb was being used without the Site Cache Client in Chrome or Microsoft Edge.
MPS-25832	The **Set Property Value** command now respects the **Required** rule for a property. Users can no longer set the property value to an empty string using this command.

Configuration Improvements

We made these improvements to Meridian Enterprise configuration. For more information about these improvements, see the articles referenced in the descriptions below.

Configuration improvements

Reference	Description
MPS-26570	The Configurator now prevents you from saving a scope if there is no value in the **Root folder** field. To learn about how to create or edit scopes, see *Create And Edit Scopes* in the *Meridian Enterprise Configuration Guide*.
MPS-29674	The columns selected for the **References Dialog Columns** layout now appear when creating a reference to a document, as expected, instead of the **Search Result Columns** layout.

Customization Improvements

We made these improvements to Meridian Enterprise VBScript customization. For more information about these improvements, see the articles referenced in the descriptions below.

Customization improvements

Reference	Description
MPS-48778	We added a new optional **ExpandableSublevelLimit** argument to the **ProjectWorkflowEvent_ PrepareBrowser** event. This argument controls how many folder levels the user can expand in the **Select Project** dialog. It can be set to an integer value of **0** or higher. The level is counted starting from the Project Folder. If the argument is included in your configuration, the user also sees a message in the **Select Project** dialog which says, "Expanding the project folder is disabled by the configuration beyond level [X]". This argument is useful for customers who have projects that contain large numbers of sub-folders. In these configurations, the number of sub-folders may lead to performance issues when users attempt to expand the folder list. In addition to this new functionality, you may also want to consider implementing field-path definitions to place documents in the correct folder automatically. To learn more about the **ProjectWorkflowEvent_ PrepareBrowser** event, see the *Project Workflow Events* section in the *Meridian Enterprise VBScript API Reference Guide*. To learn how to implement field-path definitions, see the *Field-Path Definition* section in the *Meridian Enterprise Configuration Guide*.
MPS-25391	The **PrepareCommand** event now fires as expected when you click a command in PowerWeb.
MPS-33819	Custom commands executed on a prior revision in PowerWeb now update the prior revision as expected, instead of executing on the current revision.

Viewer Improvements

We made these improvements to Meridian Enterprise viewer. For more information about these improvements, see the articles referenced in the descriptions below.

Viewer improvements

Reference	Description
MPS-36309 MPS-48661	You can now zoom up to 4000% in the PDFTron viewer.
MPS-32387	When you search a document in PDFTron, your search terms are now highlighted.
MPS-29709	The **Redline** button is no longer visible when you view an outdated revision of a PDF document.

Explorer Improvements

We made these improvements to Meridian Explorer. For more information about these improvements, see the articles referenced in the descriptions below.

Explorer improvements

Reference	Description
MPS-257	You can now create a hyperlink which can be used to download a rendition of a document. To use this functionality, you must have the **View Rendition** permission. To learn how to create this hyperlink, see *Hyperlink To Items* in the *Meridian Explorer User's Guide*.
MPS-48350	When you create a new collection in Explorer, the **Edit**, **Delete**, and **Show Documents** commands are now immediately available. Additionally, when you switch between collections, the documents in the currently selected collection now are displayed as expected.
MPS-29476	Navigation view filters are now saved along with your other filters when you save a search, as expected. To learn more, see *Save a Search* in *Meridian Explorer User's Guide*.
MPS-26962	The **Legend** now appears in the PDFTron **Compare** window as expected.
MPS-23949	Previously, some users attempting to delete documents using a filter encountered an error when the filter contained too many documents. We have adjusted the functionality so that it avoids exceeding the query length limitation for the SQL engine.

Publisher Improvements

We made these updates to Publisher. For more information about these improvements, see the articles referenced in the descriptions below.

Publisher improvements

Reference	Description
MPS-26315	When the size of a package export exceeds 100 MB and its destination is Meridian Portal, the export fails and a failure email is sent to the user.
	Additionally, as part of this ticket, the **Notify submitter when publishing a document succeeded** and **Notify submitter when publishing a document failed** configuration options have been removed from Meridian Portal publishing jobs. These settings are not applicable to Meridian Portal publishing jobs.

Known Issues

The following known issues are in the Meridian Enterprise 2022 R2 release.

Known Issues

Reference	Description
MPS-49740	The scheduling tasks for site cache preload and cleanup are crashing. As a workaround, in the Windows task scheduler, change the URL from localhost to the machine name.

2022 Release Notes

Meridian Enterprise 2022 was released in September 2022. Major improvements in this release include:

- a new PowerWeb IIS application in our installation package,
- the Meridian Email Manager tool will no longer be supported,
- Microsoft Access is now used as the default provider to store Table Data,
- the ability to create custom JavaScript modules for use in PowerWeb, and
- you can now create a rendering profile for Meridian Cloud.

Additional minor enhancements, third-party application support, and bug fixes are also included. The following sections describe the specific changes and improvements in this release.

New in 2022: HTML 5 Help now provided instead of Microsoft Help

In the past, we delivered Microsoft Help (.CHM) files as an option for providing in-app help to our Meridian Enterprise customers. As of the 2022 release, we will be providing a .zip file of our HTML 5 help instead.

Why was this decision made?

- The software we use to create our online help will soon not support the creation of CHM files.
- The CHM files we delivered were not integrated with one another, meaning that users could not search the entire documentation at the same time.
- HTML 5 help offers more functionality and a better user experience overall.

What does this mean going forward?

- We will not provide CHM files of the online help. Instead, a copy of the HTML 5 help will be installed during the Meridian setup process.

  We will have a download link in our Customer and Partner Portals where you can download the most up-to-date version of the online help if you want to update those files.

- PDF files of our documentation will continue to be generated and distributed with the product and on the website.

- Context sensitivity will continue to work for online help.

- You can change the help link to point to the Technical Library website in your user preferences, or your administrator can set it as the default help option.

Questions? Contact your Accruent representative.

Administration Improvements

We made these improvements to Meridian Enterprise administration. For more information about these improvements, see the articles referenced in the descriptions below.

Administration improvements

Reference	Description
MPS-43533	We have a new **PowerWeb** IIS application in our installation package. This application is not enabled by default, but you do have the option to enable it. This new IIS application is intended to eventually replace another IIS application in our installation package called **Meridian**, which has several known issues.
	The **PowerWeb** IIS application is better integrated with our server code, and is optimized for multi-user deployments. Going forward, this new component will have fewer errors and will be easier to maintain by the Meridian team.
	Adopting this new component may require updating your VBScript. For now, we recommend you do not delete the **Meridian** IIS application, in case you need to revert back. We would not recommend using both applications simultaneously.
	If you choose to adopt the new **PowerWeb** IIS application, you will not be able to use the **CreateNewDocument** method in the Connection API. We created a VBScript replacement for this method, described below.
	If you choose to adopt the new **PowerWeb** IIS application and you use SAML, you will need to update some settings. See the *Configure SAML Authentication* article in the *Meridian Enterprise Server Administrator's Guide* for more information.
	If you choose to adopt the new PowerWeb IIS application, you will also need to use a different URL to open PowerWeb. See the *Create a PowerWeb Location* article in the *Meridian Enterprise Administrator's Guide* for more information.
MPS-46289	SQL Azure is now supported as a database provider for Meridian Enterprise Server. However, there are a few limitations to this support:
	• We only support Azure virtual machines (VMs).
	• The setup script should only be used with a fresh installation of Enterprise Server. Any existing configuration will be overwritten or will not be functional anymore.
	Learn how to set up a SQL Azure database for Enterprise Server using our *SQL Azure Database Creation Script* article in the *Meridian Enterprise Administrator's Guide*. To learn what other database management systems we support, see the *Database Management Systems* article in the *Supported Software* document for this release.

Reference	Description
MPS-45000	As of the 2022 release, the Meridian Email Manager tool will no longer be supported. Documentation for this feature has been removed from the Meridian Technical Library.
MPS-41641 MPS-37993 MPS-35115 MPS-46214 MPS-46612	With SQL Compact reaching End of Life status, Microsoft Access is now used as the default provider to store Table Data. We have included a conversion tool with the installation files for 2022 that can be used to convert your lookup table database files. This tool is documented in the *Upgrade External Tables to Microsoft Access* article in the *Meridian Enterprise Administrator's Guide*. To learn more about how this impacts Meridian, see our KnowledgeBase article about this topic. A known issue for this change is that Microsoft Access Table database rows cannot be edited or deleted in the 64-bit Configurator. As a workaround, you can use the 32-bit Configurator; however, you will need to download and register the following components from Microsoft. These components are not included with the Meridian setup. • MSBIND.dll • MSSTDFMT.DLL • MSDATGRD.OCX If you use this workaround, when you enter or exit **Edit** mode for a table, you will encounter an error message. This error message will not impact functionality—feel free to ignore it.
MPS-42319	We added a new **ColumnFilteringLimit** registry key value. If the number of documents in a search result is below the threshold set by this setting, column filtering is available for the search results. If the number of documents is above this threshold, column filtering is disabled. This setting improves the speed at which search results are displayed in PowerWeb. This registry key value is documented in the *HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\WebLink* registry key article in the *Meridian Enterprise Administrator's Guide*.
MPS-40927	We added a new **ReportDocumentsLimit** registry key value. This registry key setting sets the maximum number of documents allowed in a report. Setting this limit improves system performance by preventing users from accidentally generating excessively large reports. This registry key value is documented in the *HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\WebLink* registry key article in the *Meridian Enterprise Administrator's Guide*.

Reference	Description
MPS-40453 MPS-44013	We've added several new command-line arguments to the **Renditions Updater** tool. These arguments give you the ability to: • Specify a document ID of a document to process • Specify a file containing a list of document IDs to process • Specify where to save the log generated by the command • Disable logging for the command For more information about this tool, see the *Renditions Updater Tool* article in the *Meridian Enterprise Administrator's Guide*.
MPS-41494	When running the **Renditions Updater** tool, the latest released revision of a document will be added to the queue if the document is in a workflow. For more information about this tool, see the *Renditions Updater Tool* article in the *Meridian Enterprise Administrator's Guide*.
MPS-42785	As part of our continued commitment to ensuring the security of our product, the JAR files required for the AutoVue integration are no longer included with our installation files. These files and installation instructions can be provided to you by request via Accruent Support.
MPS-43350	We support Windows 11 on client machines.
MPS-41540	Only the last 1 MB of workflow data in the audit log will be synchronized to Explorer. If data is omitted from the log, a warning will be added to the audit log. The complete audit log can still be viewed in PowerWeb. Excessively long logs are as a result of additional lines of data being entered due to custom configurations.
MPS-42977	The "Object reference not set to an instance of an object" error no longer occurs when importing import packages if the **References** tab is not included in the spreadsheet.
MPS-44215	The **License Server** check box is no longer automatically selected in the installation wizard.
MPS-44634	When a document or revision is missing a rendition stream, the synchronization job now continues instead of failing. A warning is added to the event log for the missing stream.

Reference	Description
MPS-41541	You can now set the maximum size for the workflow log in your vault properties. This setting is documented in the *View and Edit Vault Properties* article in the *Meridian Enterprise Administrator's Guide*. This value is used to configure the maximum workflow log size for a vault in bytes. By default this value is set to **0**, which means there is no maximum size. If the user performs an action and the log exceeds the maximum configured size, lines are removed from the start of the log until the log is not larger than the maximum size. This setting is stored in the new **MaximumWorkflowLogSize** registry key value, as documented in the *HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\Installed DataStores\<vaultname>* registry key article in the *Meridian Enterprise Administrator's Guide*.
MPS-24903	PowerWeb users can now use the **Vault History** feature to view the vault at a specific point in time. To enable this functionality for PowerWeb users by default, set the **EnableBaselines** setting to **1**. This feature is documented in the *View Vault History* article in the *Meridian Enterprise User's Guide*. The **EnableBaselines** setting is documented in the *HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\WebLink\UserPreferences\Default* registry key article in the *Meridian Enterprise Administrator's Guide*. To set an option for all PowerWeb users, you can now use the tool described in How to Set an Option For All PowerWeb User Profiles.
MPS-45406	We've added a new **MaxUploadSize** registry setting. This setting controls the maximum file size allowed to be uploaded in PowerWeb in **megabytes**. If a user attempts to upload a document (individually or as part of a batch) exceeding this size, they will receive a warning. The warning instructs the user to upload the document using the Local Workspace Client. This setting is documented in the *HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\WebLink* registry key article in the *Meridian Enterprise Administrator's Guide*. You can learn more about how to add documents to the Local Workspace Client in the *Add Documents to Local Workspace* article in the *Meridian Enterprise User's Guide*.
MPS-15166	The maximum size of the BC Application Events log is now 20480 KB.
MPS-30753	If you use an ODAC version newer than version 12, you will need to follow the procedures in *Configure ODAC for Oracle* in the *Meridian Enterprise Administrator's Guide*. The reason is because newer versions of ODAC do not automatically register their own provider in the Global Assembly Cache (GAC). If you do not follow these procedures, even some of the most basic Meridian functionality will not work.

Reference	Description
MPS-42881	We have resolved an issue that caused authentication level errors in the system logs for the EDM Server and Web Access Server. This error was caused by an update from Microsoft for its DCOM server in response to a vulnerability.

MPS-39495	If your users encounter a script error when trying to open a link to a **Comments** page in Explorer from PowerUser, you can resolve the issue by disabling Compatibility View in Internet Explorer and adding the following values to the HKEY_CURRENT_ USER\SOFTWARE\Microsoft\Internet Explorer\Main\FeatureControl\FEATURE_ BROWSER_EMULATION registry key:
	
	• **Setting 1**
	  ○ **Value Name:** PowerUser.exe
	  ○ **Data Type:** dword
	  ○ **Value Data:** 00002af9
	• **Setting 2**
	  ○ **Value Name:** Configurator.exe
	  ○ **Data Type:** dword
	  ○ **Value Data:** 00002af9

MPS-36575	As part of a security fix, you must perform the following actions if you have a package export job linked to Meridian Portal: • Re-enter your Portal password in your tenancy settings To learn how to do this, see *View And Edit the Connectivity Settings* in the *Meridian Enterprise Server Administrator's Guide*. • Open and close your Meridian Portal Package Export job
MPS-27213	The **AhaPortal** registry key setting in the HKEY_LOCAL_ MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\WebLink registry key is now working as expected. To learn more about this registry key, see the *Meridian Enterprise Administrator's Guide*.
MPS-21932	Enterprise Server now skips empty rows in import package spreadsheets instead of treating those rows as documents.

Application Link Improvements

We made these improvements to application links. For more information about these improvements, see the articles referenced in the descriptions below.

Application link improvements

Reference	Description
MPS-43294 MPS-43301	The AutoCAD 2023 family is now supported.
MPS-43297 MPS-43298	Autodesk Inventor 2023 and Autodesk Revit 2023 are now supported. There is a known issue with the Inventor 2023 viewer—it does not open documents as expected. This issue will be resolved in a future release.
MPS-25718	Confirmation pages are now supported in Remote mode for CAD links. To learn more about confirmation pages, see the *Confirmation Pages* article in the *Meridian Enterprise Configuration Guide* and our KnowledgeBase article about implementing confirmation pages.
MPS-43185	We no longer support the 32-bit version of Bentley MicroStation.
MPS-26209	In your Revit Worksharing configuration, you can now set the value of the **EditableWorksets** setting to a Memo-type property. This supports the use case where the combined names of the editable worksets are too long for a String-type property. To learn how to configure this setting, see the *Configure Revit Worksharing* article in the *Meridian Enterprise Configuration Guide*.
MPS-26115	We've increased the level of detail provided by our extended logging option for the AutoCAD rendering engine. Enabling this setting allows you to get greater insight into the performance of the rendering engine and determine why a rendering job is failing. To learn more about this setting, see the *Configure the Autodesk AutoCAD Rendering Module Options* article in the *Meridian Enterprise Server Administrator's Guide*.
MPS-37728	Previously, when you opened the x-refs of a released document in AutoCAD, you only had the option to start a Quick Change. You can now choose to start a Quick Change or select a custom workflow.
MPS-44577	This release includes ODA Platform 2023.6 components. These components support our Teigha application links.

Client Improvements

We made these improvements to Meridian clients. Improvements apply to the PowerWeb client application unless otherwise stated.

For more information about these improvements, see the articles referenced in the descriptions below.

Client improvements

Reference	Description
MPS-41536 MPS-37659	You can now see the company of each recipient in the selection list when sending a document to Portal. This enhancement applies to both PowerWeb and PowerUser.
MPS-38082 MPS-37658	When you view the **Export Packages** page, you can now see the company of the package's recipient. This enhancement applies to both PowerWeb and PowerUser.
MPS-42345	When you print a document whose source is a PDF, and the PDF does not have a rendition, PowerWeb prints the source PDF instead of generating a rendition. If the PDF has a rendition, PowerWeb will print the rendition.
MPS-42646	If you print documents in a batch, Meridian will call the appropriate script and apply the watermark in PDFTron. The **Site Cache Client** is required for this functionality. To learn more, see *Configure Watermark Printing* in the *Meridian Enterprise Configuration Guide*.
MPS-42711	The decimal separator used in PowerWeb now respects the setting for the user's **Locale** in their user preferences.
MPS-43161	The **All these criteria must be met** option is now selected by default in the **Find Documents** dialog and for **Quick Find**.
MPS-42839	PDFTron renditions are now stored in your site cache. This enhancement improves performance and allows you to access renditions more quickly.
MPS-21399	You can now create a new folder or project when you create a project copy. This functionality does not work in ActiveX mode. To learn how to create a project copy, see the *Create a Project Copy* article in the *Meridian Enterprise User's Guide*.
MPS-40275	When printing with PDFTron in PowerWeb, watermarks now use the transparency specified in VBScript. To learn more, see *Configure Watermark Printing* in the *Meridian Enterprise Configuration Guide*.
MPS-43719	The dates and times in navigation view columns in PowerWeb now reflect the user's date and time preferences.

Reference	Description
MPS-43723	References are included in export packages sent to Portal as expected when the user's language preference is set to French.
MPS-41750	In 2021 R3, we allowed users to upload files bigger than 100 MB to their local workspace. However, this enhancement required users to copy the file to the local workspace folder manually, because PowerWeb suffered performance issues due to IIS. In 2022, we've added an **Add Document** button to the toolbar in the Site Cache Client. The Site Cache Client chunks large files and communicates with the server directly, which allows for a faster upload. To learn more, see the *Add Documents to Local Workspace* article in the *Meridian Enterprise User's Guide*.
MPS-42530	PowerWeb no longer queries the lookup lists in the **Find Documents** dialog until the user clicks the lookup list to select an option. This enhancement improves the processing speed of the **Find Documents** dialog.
MPS-40550	If you fail e-signature authentication or close the authentication dialog without attempting to authenticate, PowerWeb now adds an entry to the audit log for each document in the batch, instead of one entry for the whole batch. To learn more about e-signature authentication, see the *Sign Documents* article in the *Meridian Enterprise User's Guide*. To learn how to view entries in the Audit Log, see the *View And Save the Audit Log* article in the *Meridian Enterprise User's Guide*.
MPS-35184	If properties are not visible, white space is no longer shown for the hidden properties.
MPS-34762	The folder name now appears in the confirmation message when you delete a folder.
MPS-42281 MPS-42283	You can now preview the contents of a folder by clicking the **Thumbnails** button. The **Thumbnails** button is only available if you have the appropriate permissions to see the contents of the folder. From the **Thumbnails** view, you can right-click a document and use the context menu to select an action. To learn more about this functionality, see the *View Document Thumbnails in Folder* article in the *Meridian Enterprise User's Guide*.
MPS-26232	If you do not have the appropriate permissions to see a document's contents, you cannot view or update the document's thumbnail.
MPS-28537	You can now change the document type of a batch of documents as expected. PowerWeb will return an error message for any documents in the batch that are locked.

Reference	Description
MPS-36868	We've added changed some of the fields in the **Create an Export Package** window to improve integration with Explorer: • The **Include Content** field now replaces the **Shared** check box. This field is used to select which document content to include in the package: the source document, the rendition, or both. • A new **Related Project** field has been added. If the document is associated with a project, this field will auto-populate with the project the document is associated with. If the document is not associated with a project, you can choose to select a project from this field. You are not required to choose a project from this field. To learn more, see the *Add Documents To Packages* article in the *Meridian Enterprise User's Guide*.
MPS-27202	Microsoft announced that the Internet Explorer end of life will be June 15, 2022. With this announcement, we've updated the **Compare** feature so it no longer depends upon IE's ActiveX controls. Instead of using a Windows dialog, you now see the comparison in an in-app window. Learn more about Internet Explorer's End of Life and its impact on Meridian.
MPS-24903	You can now choose to view the contents of the vault at a specific point in time. This functionality allows you search for documents which have been deleted, but you don't know where in the vault they were originally stored. To enable this functionality, you must enable viewing the vault at a baseline in your PowerWeb personal preferences. To learn more about this functionality, see the *View Vault History* article in the *Meridian Enterprise User's Guide*. To set an option for all PowerWeb users, you can now use the tool described in How to Set an Option For All PowerWeb User Profiles.
MPS-23805	We've made it easier to remove hybrid parts from a document. Now, you can access the **Delete** command by right-clicking the hybrid part and selecting the command from the context menu.
MPS-22681	You can now create new tags in the vault from the **Tags** property page. This was previously only possible from PowerUser. To learn how to create new tags, see the *Create New Tags* article in the *Meridian Enterprise User's Guide*.
MPS-39372	Previously, if an Administrator had added multiple property pages and the user adjusted the size of the property page pane, the **Edit** button would be pushed off the right side of the screen. Now, the position of the **Edit** button for the property page pane is fixed, and will not be pushed off the screen.

Reference	Description
MPS-45406	A warning will now appear when a file you are trying to upload (individually or as part of a batch) exceeds the maximum size limit set by your Administrator. Files exceeding this limit cannot be uploaded. To upload these files, use the Local Workspace client.
MPS-41421	You can now use the **Find Documents** dialog to search a collection. We've also updated the options in the dialog so you can choose between searching the entire vault, a specific folder, or a collection.
MPS-45962	We resolved an issue that caused the first file in an import to be 0 KB in size. This issue only occurred when: • The documents were imported via drag-and-drop • Two different document types are associated with the same file extension • There were three servers in the environment: one for EDM Server, one for the Web Server, and one for Enterprise Server • The **ApplyMetadata** registry key setting was set to **0** This setting is documented in the *HKEY_LOCAL_ MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\WebLink* registry key article in the *Meridian Enterprise Administrator's Guide*.
MPS-28203	We resolved an issue that was preventing revision numbering from behaving as expected when concurrent engineering was enabled.
MPS-47094	We resolved an issue where after using the **Find** command to search within a collection, if the user stayed within their search results and performed a **Quick Find**, the results of the Quick Find were incorrect. This issue occurred because Quick Find was still using the search criteria from the original Find command.
MPS-45457	You can no longer invoke the **Attach Rendition** command if the document is assigned to another user or if it is in a workflow.
MPS-44789	Documents with names longer than 255 characters can be imported successfully in the **Site Cache Log** window.
MPS-43457	The **Set Property Value** dialog now gets the locale from the user's preferences instead of using the server's default locale settings.
MPS-43220	We resolved a display issue that was causing dashes to appear as invalid characters.

Reference	Description
MPS-43163	In the following scenario: 1. The user searches for a document 2. The user sets their focus on the document 3. The user refreshes the page After the page refreshes, the user's focus remains on the document instead of being set to the search results.
MPS-42998	Having one double quotation mark (") in the description of an export package no longer prevents the package from being sent to Portal.
MPS-42479	Having one double quotation mark (") in the company name of the recipient of an export package no longer prevents the package from being sent to Portal.
MPS-42966	We improved the performance of Quick Search when a user performs a search and the currently selected document is not included in the search results.
MPS-41598	Workflow transitions now work as expected in vaults where e-signatures are enabled in Site Cache Mode, and both a Wizard page and Approval page are assigned to the transition.
MPS-41239	Users can no longer right-click a document and open it in a new tab unless they have the appropriate permissions to view renditions.
MPS-37350	If a property is configured as having multiple values and it does not have delimiters, delimiters are now added before the property is displayed. Therefore, it is no longer required that the delimiters are part of the stored data when only one value is selected.
MPS-33296	In PowerUser, you can now successfully synchronize updates to Explorer when the value of a property is greater than 251 characters.
MPS-29386	If properties are not visible on a property page, their labels are no longer displayed.
MPS-24909	The **<All text and content>** option for **Quick Search** is now saved for subsequent searches, instead of being reset to the **Quick Search** default. This setting can be accessed by clicking the down arrow to the right of the **Quick Search** spyglass icon.
MPS-44718	The **ImportedFrom** property is now populated correctly in PowerWeb.
MPS-45457	Renditions can no longer be attached if the document is assigned to another user or in a workflow.
MPS-24805	It is no longer possible to disable the ribbon in PowerWeb.
MPS-47729	We recommend using the new PowerWeb application only when the ActiveX mode is not used.

Reference	Description
MPS-35378	If the user clears the name of a reference in PowerUser (so that the name is empty) and then synchronizes the document with Explorer, the synchronization now processes as expected.

Configuration Improvements

We made these improvements to Meridian Enterprise configuration. For more information about these improvements, see the articles referenced in the descriptions below.

Configuration improvements

Reference	Description
MPS-41583	We added the ability to create custom JavaScript modules for use in PowerWeb. With this functionality, you can: 1. Link to custom JavaScript modules from your vault settings, 2. Add custom commands and subcommands to the PowerWeb ribbon and context menu, 3. Add new sections to the ribbon and context menu, and 4. Control when the user can access user interface controls, preventing them from taking unexpected actions. To learn more, see the *Create a Custom JavaScript Module in PowerWeb* and *JavaScript API* articles in the *Meridian Enterprise Configuration Guide*.
MPS-36574	We added a new **Behavior** tab to the **Properties** dialog box for panel elements. This tab has one setting: the **Refresh form if user changes the value** check box. When this check box is selected, the form that this field is in will refresh if the field's value changes. This setting is useful to enable when the value of another field is dependent upon this field's value. To learn how to configure this setting for your panel elements, see the *Configure the Behavior of a Panel Element* article in the *Meridian Enterprise Configuration Guide*.
MPS-42645	We added three new document privileges: **Manually Synchronize Properties from File**, **Manually Synchronize Properties to File**, and **Manually Synchronize References from File**. These settings control whether the **Synchronize Properties from File**, **Synchronize Properties to File**, and **Synchronize References from File** commands appear in the user interface for a user. These privileges will not prevent changes made by a workflow transition. To learn more about privileges, see the *Security Privilege Descriptions* article in the *Meridian Enterprise Configuration Guide*.

Reference	Description
MPS-35182	You can now specify that a panel should be hidden on a page if all the fields in the panel are also hidden. To learn how to configure this setting, see the *Create And Edit Panels* article in the *Meridian Enterprise Configuration Guide*.
MPS-28260	We've added a new **Support Concurrent Project Copies** configuration option for document types. Select this option if you want the revision number to increment to the next revision number (as configured for the document type) each time a project copy is released as master, even if there are multiple concurrent project copies. To learn how to configure this setting, see the *Configure Document Revision Numbers* article in the *Meridian Enterprise Configuration Guide*.
MPS-46198	In rare cases where the Configurator fails to save the metadata stream file, the Configurator will now reattempt to save the file.

Customization Improvements

We made these improvements to Meridian Enterprise VBScript customization. For more information about these improvements, see the articles referenced in the descriptions below.

Customization improvements

Reference	Description
MPS-28537	New **DocGenericEvent_PreInitializeChangeDocumentType** and **DocGenericEvent_ PreBeforeChangeDocumentType events** have been added to support the use of confirmation pages in the **Change Document Type** event sequence. These events can also be used as part of a wizard. To learn more about document generic events, see the *Document Generic Events* article in the *Meridian Enterprise VBScript API Reference Guide*. To learn more about confirmation pages, see the *Confirmation Pages* article in the *Meridian Enterprise VBScript API Reference Guide*.
MPS-14029	You can now create Custom Page events in VBScript. Custom Page events allow you to control the behavior of custom property pages and which actions can be taken on them. These events can be used to implement more granular security and exert control over which users can edit metadata on custom property pages. To learn more about Custom Page events, see the *Custom Page Events* article in the *Meridian Enterprise VBScript API Reference Guide*.
MPS-44309	The "Object has been deleted" error is no longer returned when a user attempts to release a document as master.

Reference	Description
MPS-43921	If you adopt the new PowerWeb IIS application described above, the **CreateNewDocument** method in the Connection API will not work as expected. To resolve this issue, we've added a new **CreateNewDocument** method to the **Vault** object. If you intend on using the new **PowerWeb** IIS, you will need to adjust your VBScript. To learn more about this method, see the *Vault Object* article in the *Meridian Enterprise VBScript API Reference Guide*.
MPS-44945	We have added a new **FolderGenericEvent_FileUploaded** event which is fired when a file is uploaded, but *before* a document is created or updated.
MPS-44946	We have added a new **FindDocuments** method to the **Folder** object. This method can be used to search the documents in the current folder or the current folder and its subfolders. To learn more, see *Folder Object Methods* in the *Meridian Enterprise VBScript API Reference Guide*.
MPS-45938	You can now use the **DraftPrint_SetWaterMark** event to apply a dynamic watermark when printing a batch of documents in both PowerWeb and Explorer. However, this functionality will not work for Explorer users who have the Site Cache Client enabled. This is a known limitation that we will address in a future Meridian Enterprise release. For Explorer users who have the Site Cache Client enabled, we recommend either disabling the Site Cache Client or printing documents from PowerWeb. To learn more, see *Configure Watermark Printing* in the *Meridian Enterprise Configuration Guide*.
MPS-44878	The **Document.GetReferences** method now returns the internal name of the reference type using the new **Properties** property of the **Reference** object. The **Properties** property returns an array of properties for the reference. To learn more, see the *References Object* article in the *Meridian Enterprise VBScript API Reference Guide*.
MPS-46336	We've added a new **GetDocumentRevisions** method to the **Document** object. This method returns an array of revision IDs. To learn more, see the *Document Object Methods* article in the *Meridian Enterprise VBScript API Reference Guide*.

Viewer Improvements

We made these improvements to Meridian Enterprise viewer. For more information about these improvements, see the articles referenced in the descriptions below.

Viewer improvements

Reference	Description
MPS-45399	Downloading a rendition from the PDFTron viewer in Explorer no longer causes the dashes in the file name to be replaced with underscores.
MPS-43254	You can now successfully view XOD files using PDFTron in Internet Explorer 11.
MPS-41356	Downloading a rendition with redlines using the browser tools no longer causes PDFTron to stop working.
MPS-23948	The **Print** action in PDFtron is now tracked in the audit log.

Explorer Improvements

We made these improvements to Meridian Explorer. For more information about these improvements, see the articles referenced in the descriptions below.

What's new in 2022

Reference	Description

MPS-32900 MPS-43926 MPS-43928	You can now apply commands to all items in a search result in Explorer. Supported commands include:
	
	 • **Add to Collection**
	
	 • **Download Files**, specifically:
	    ○ Download All
	    ○ Download All (Rendition)
	    ○ Download All (Rendition with Redlines)
	
	 • **Print Renditions**
	
	To learn more, see *Apply Commands to Explorer Search Results* in the *Meridian Explorer User's Guide*.

Reference	Description
MPS-32899	Explorer Download Options are now disabled for users if Web Client components are not installed on the workstation or if the user is using Internet Explorer. To learn more about the download options in Explorer, see *Configure Options* in the *Meridian Explorer User's Guide*.
MPS-42839	PDFTron renditions are now stored in your site cache. This enhancement improves performance and allows you to access renditions more quickly.
MPS-36472	The reason why a document in an import package was not successfully imported is now displayed in the **Action Feedback** column of the import package's metadata spreadsheet.
MPS-45907	We resolved an issue where if a document had a revision with a file size of 0, the export step in the synchronization process did not include any content for the revision or any subsequent revisions.
MPS-37001	You can now view up to 3000 records at a time with property-based navigation.
MPS-32533	If the **Display content** setting for a repository view is set to **Show both - default to source**, you can see hotspots in the viewer as expected.
MPS-15170	Explorer synchronization now works as expected after a project has been deleted. You should no longer get the `FK_Document_Folder` error message.
MPS-45146	Redlines can be saved successfully on a rendition when working from a property page.

Publisher Improvements

We made these updates to Publisher. For more information about these improvements, see the articles referenced in the descriptions below.

Reference	Description
MPS-42593	You can now create a rendering profile for Meridian Cloud. This enhancement allows you to make use of the elasticity of the Meridian CloudPublisher. The Meridian Cloud rendering profile option supports use of the **DisableXODGeneration** setting. To use this rendering module, you must have a Meridian Cloud tenancy and a subscription to Meridian Cloud Publisher. The CloudPublisherSubscription feature toggle must also be enabled. Meridian Enterprise will query the Cloud service to determine if you have a Meridian Cloud tenancy and which file formats are supported by the service. As part of this enhancement, we also fixed a scrolling issue that prevented users from seeing all options in the **New Rendering Profile** dialog. To learn how to configure a rendering profile for Meridian Cloud, see the *Configure the Meridian Cloud Rendering Module Options* article in the *Meridian Enterprise Server Administrator's Guide*. To learn how to use the **DisableXODGeneration** setting, see the *Configure Rendering Options* article in the *Meridian Enterprise Server Administrator's Guide*.
MPS-43846	If you have a publishing job configured for a Meridian Cloud rendering profile, you can configure your publishing job to generate a thumbnail when you update a rendition. To learn how to configure this option, see the *Configure the Miscellaneous Options* article in the *Meridian Enterprise Server Administrator's Guide*.
MPS-45408	If you have a rendition job that uses an on-premises rendering engine and it is configured to update a document's thumbnail, Publisher now updates the thumbnail when you update the rendition. By default, Publisher uses Aspose to generate the thumbnail.
MPS-43296	AutoCAD 2023 is now supported in Publisher.
MPS-41512	AutoCAD 2017-2018 is no longer supported in Publisher.
MPS-38740	The Aspose Rendering Module now supports rendering Outlook message files.
MPS-41484	The Acme CAD and Teigha DWG rendering modules now support DWF and DXF file formats.
MPS-40287	You are no longer required to have Microsoft Office installed on the rendering node to add signature pages to the end of a document. Instead, the signature page is now applied by the Aspose library.
MPS-40213	We resolved an issue that caused the **Publisher Queue** not to open as expected when the display name of a vault had been changed.
MPS-38483	We resolved an issue where if a user deleted a hybrid part from a source file and then re-published the file, the hybrid part had not been properly deleted in the destination vault.

Reference	Description
MPS-44709	Two copies of a revision are no longer created when you have a publishing job that publishes both the source document and revision and the destination folder is different for the revision.

Known Issues

The following known issues are in the Meridian Enterprise 2022 release.

Known Issues

Reference	Description
MPS-44680	The ability to create new folders or project folders when creating a project copy does not work in ActiveX mode. However, with Internet Explorer's end of life, ActiveX will not be available. Please review our KnowledgeBase article that discusses how Internet Explorer's End of Life impacts Meridian.
MPS-45048	Aspose synchronization returns an error if the **SAMEIISEDMAccount** registry key setting is set to 0. This registry key setting is documented in the *HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\WebLink* article in the *Meridian Enterprise Administrator's Guide*.
MPS-43147	You will encounter an error message when attempting to register a Site Cache Server while using TLS 1.3.
MPS-45963	When you send a document to Portal using a work flow, references are not included. References *are* included if you use the **Send to Portal** command.
MPS-43308	The viewer for Inventor 2023 does not open documents as expected.
MPS-46543	When the current document revision is in a workflow and its rendition is not up to date, you cannot generate prior renditions using the **Renditions Updater**. For this reason, we recommend you only generate renditions for documents that are not currently in a workflow, or update the rendition of the current revision using the **Update Rendition** command or the **Document.UpdateRendition** method in script. To learn more about these topics, see the following sections in our documentation: • the *Renditions Updater Tool* article in the *Meridian Enterprise Administrator's Guide* • the *Update Renditions* article in the *Meridian Enterprise User's Guide* • the *Document Object Methods* article in the *Meridian Enterprise VBScript API Reference Guide*

Reference	Description
MPS-47598	When using site cache with the 32-bit Application Integration, drag-and-drop imports do not work. You can still import using the **Add** button. To learn how to add documents to your local workspace, see *Add Documents to Local Workspace* in the *Meridian Enterprise User's Guide*.
MPS-44865	When Site Cache is enabled, if the user imports a small assembly using the **Import Documents** command and then attempts to release the document from Quick Change, an error message will be returned. As a workaround, use a Download or Synchronize command in PowerWeb before you import your documents.
MPS-48035	When you edit a lookup field for a document in PowerWeb, an ellipses button unexpectedly appears above the lookup field. This is a browser feature that is specific to Microsoft Edge. To disable this button: 1. Click the **Ellipses** button. A menu appears. 2. Point to **Hide Menu**, and select your preferred option from the menu that appears.
MPS-49040	To use SAML with the 2022 release, you will need to install an additional .dll file which will be included with the installer for 2022 R2. This .dll file works with the Meridian IIS application, but not the new PowerWeb IIS application. To request this .dll file, contact your Accruent representative.

2021 R3 Release Notes

Meridian Enterprise 2021 R3 was released in November 2021. Major improvements in this release include:

- [We've eliminated the need for local admin and SQL admin rights for Meridian service accounts](#)
- [We've added subscription/user pass licensing for on-premises](#)
- [We've added the ability to create confirmation pages for release as master events](#)
- [We've added e-Signature via Site Cache Client](#)

Additional minor enhancements, third-party application support, and bug fixes are also included. The following sections describe the specific changes and improvements in this release.

Administration Improvements

We've made these improvements to Meridian Enterprise administration. For more information about these improvements, see the articles referenced in the descriptions below.

Administration improvements

Reference	Description
MPS-35464	You now have the option to use an On-Premises License Server or a Cloud Server for Subscription Licenses.
MPS-38787 MPS-35612	The permissions required in SQL Server for a Meridian Server have changed. Refer to our documentation for the current requirements.
MPS-36263	A new Match in setting has been added for import profiles that are not used for Meridian Portal. This setting tells Meridian to check whether the document number for a document is unique within the target project or within the entire vault.
MPS-36853	A new Release new documents by default setting has been added for import profiles. This setting specifies that if the workflow status is not set for a document in the metadata worksheet, then Meridian will: • (disabled) Leave document in its current workflow state For example, if the document was Under Change, it stays in the Under Change state. • (enabled) Release the document from the workflow entirely The document is no longer in a workflow, and becomes a new version.

Reference	Description
MPS-39809	You can now enable access to the SiteCache options in Cloud Connector after setup. There are two ways to do this: • Use the command line to install the Cloud Connector with a new parameter. For example: `msiexec.exe /i %PACKAGE% /qf /PROMPTRESTART /log %MYLOG% REINSTALL=ALL REMOTEONLY=0` • Install the Cloud Connector in GUI-mode using the parameter **REMOTEONLY=0** in the **Meridian Cloud Connector.ini** file.
MPS-38854	We've resolved a synchronization issue with ActiveDirectory where if the list of user email addresses had too many email addresses, the synchronization failed. The system now truncates the list so that the synchronization will succeed, and then starts a new synchronization job.
MPS-38628	Previously, when you attempted to create a folder using an import package, the order of events was different than what it was in the user interface. Now, the order of events when a folder is being created via import is the same as when you create a folder manually in PowerWeb.
MPS-37783	To improve your system security, we recommend that you update your **web.config file** in the following ways: • **<httpRuntime enableVersionHeader="false">** should be set to remove the **X-AspNet Version** header — works for all IIS versions • **<security><requestFiltering removeServerHeader="true"/>** should be set to remove the **Server** header — works only for IIS10 only

Application Link Improvements

We've made these improvements to application links. For more information about these improvements, see the articles referenced in the descriptions below.

Application link improvements

Reference	Description
MPS-24686	The layout of the **Edit Properties** dialog in remote mode when using SAML has been fixed.

Reference	Description
MPS-39552	If a user attempts to open a document where the version in the vault is newer than the version in their local workspace, the Application Integration now warns the user that the document may contain updates from other users, and that any local changes may be lost after synchronization. The user can then abort the operation. This behavior only occurs if Site Cache mode is enabled.
MPS-39030	We no longer support the 2017-2018 versions of the AutoCAD family.
MPS-34747	We fixed an issue that caused users to be unable to create content center parts in Inventor if the vault setting for the workflow state of imported documents was set to Unchanged.

Client Improvements

We've made these improvements to Meridian clients. Improvements apply to the PowerWeb client application unless otherwise stated. For more information about these improvements, see the articles referenced in the descriptions below.

Client improvements

Reference	Description
MPS-34307	If a user attempts to open a document where the version in the vault is newer than the version in their local workspace, PowerWeb now warns the user that the document may contain updates from other users, and that any local changes may be lost after synchronization. The user can then abort the operation. If the user chooses to abort the operation, nothing is changed in the local workspace or the vault. This behavior only occurs if Site Cache mode is enabled.
MPS-35657	If a user attempts to synchronize their local workspace when a document has a version in the vault newer than the version in their local workspace, the local workspace client now warns the user that the document may contain updates from other users, and that any local changes may be lost after synchronization. The user can then abort the operation. This behavior only occurs if Site Cache mode is enabled.
MPS-24058	The SkipSyncForOpen setting now functions as expected when Site Cache mode is enabled and a CAD link is working in remote mode.
MPS-34829	The Audit Log export file is now filtered to only contain data for the current vault.
MPS-38164	The Transfer to Project command is available for document types where the Merge Workflow option is selected.

Reference	Description
MPS-38457	When Site Cache mode is enabled and the Site Cache Client is configured to trigger authentication, Windows authentication is now triggered. Learn more about this enhancement in our *Configuration Improvements* section below.
MPS-33812	The Aspose rendering engine in PowerWeb no longer distorts images when the orientation and aspect ratio do not match between the image and the page size. Images are also now centered on the page. Additionally, you can now configure the default page size and orientation for Aspose renderings of images.
MPS-36989	You can now import packages directly to **Retired** status.
MPS-38022	You can now upload files larger than 100 MB to the Local Workspace with the same upload speed as smaller files.
MPS-39309	Renditions now generate as expected for documents whose names contain an "&" character.
MPS-39084	Users can no longer continue working if they fail e-signature authentication. They are now logged out automatically.
MPS-39058	An error message now displays if XOD files are not generated.
MPS-28473	The Unlock Documents commands are no longer disabled if the **Unlock from Briefcase** setting is disabled for the scope.
MPS-32255	Import package information now appears as expected on the **Import Package** tab when importing a package from Portal to PowerWeb.
MPS-35241	We've improved performance for customers who have multiple commands assigned to a document type.
MPS-38062	We've resolved an issue which caused references for the current revision to display when viewing a previous revision in remote mode or when downloading in online mode.

Configuration Improvements

We've made these improvements to Meridian Enterprise configuration. For more information about these improvements, see the articles referenced in the descriptions below.

Configuration improvements

Reference	Description
MPS-38517 MPS-38457 MPS-38458	You can now configure your vault settings so that the user must authenticate via Windows before their electronic signature will be applied. If the user has disabled site cache mode, they will be unable to complete the workflow transition.
MPS-38302	The Apply to entire batch setting allows the settings from the first instance of the wizard page to be applied to each document that is selected in the batch. This functionality is almost always desired by our customers, so the setting is now enabled by default.
MPS-38053	There is now a new Merge Workflow without Transfer option available in the concurrent engineering properties of document types. When this option is selected for a document type, the **Transfer to Project** option in PowerWeb is disabled.
MPS-34933	You can now import MET files to create or update Quick Change configurable workflow definitions.
MPS-35193	Column collections can be successfully exported and then re-imported.

Customization Improvements

We've made these improvements to Meridian Enterprise VBScript customization. For more information about these improvements, see the articles referenced in the descriptions below.

Customization improvements

Reference	Description
MPS-38069 MPS-38074 MPS-38081 MPS-38077	You can now add confirmation pages at several points in the release as master event sequence. These new events are: • PreInitializeReleaseToMaster • PreBeforeReleaseToMaster These events can be used in wizards relating to releasing a document as master.
MPS-37725	You can now create a static collection using the StaticCollection property of the Vault object. You can also add or remove documents from a StaticCollection object using the **add**, **remove**, and **removeall** methods.
MPS-30094	If a script exists to configure user profile settings for a new user via VBScript, these settings are applied as expected.

Viewer Improvements

We've made these improvements to Meridian Enterprise viewer. For more information about these improvements, see the articles referenced in the descriptions below.

Viewer improvements

Reference	Description
MPS-38739	When the Viewer is undocked and a new document is selected, the Viewer refreshes as expected.

Explorer Improvements

We made these improvements to Meridian Explorer. For more information about these improvements, see the articles referenced in the descriptions below.

What's new in 2021 R3

Reference	Description
MPS-34956	You can now see the validation results and messages for both the scan and the import in the metadata spreadsheet of an import package.
MPS-32878	You no longer encounter an access denied error when viewing PDF files or manually added renditions if the **Enable XOD viewing** and **Enable PDFTron viewer for PDF documents** settings are enabled in Enterprise Server.

Publisher Improvements

We made these updates to Publisher. For more information about these improvements, see the articles referenced in the descriptions below.

What's new in 2021 R3

Reference	Description
MPS-38776 MPS-33812	Two new Aspose rendering profile settings, Default page size and Default orientation, are available for Word, PowerPoint, Excel, and Image files.

Reference	Description
MPS-40337	We've added a new setting that allows Meridian to recover from attempting to render a corrupt or invalid document. If you use the Teigha rendering engine and a third-party rendering component fails, we remove the document from the rendering queue. We've also added a message to the process log that informs the user that the process has failed, and then Meridian proceeds to the next document in the queue. To enable this functionality, you must set the **ExternalUpdateProperties** setting in the **PublishingCapability.dat** file to **true**. To learn more about the settings in the **PublishingCapability.dat** file, see the *PublishingCapability.dat* article in the *Meridian Enterprise Server Administrator's Guide*.

Known Issues

The following known issues are in the Meridian Enterprise 2021 R3 release.

Known Issues

Reference	Description
MPS-35168	When you try to update a document in PowerWeb with Windows Search enabled, the content of the document is not always updated. A conflict might occur between Windows indexing and the command for creating a new revision in PowerWeb. This issue will be addressed in a future update of Meridian Enterprise.

2021 R2 Release Notes

Meridian Enterprise 2021 R2 was released in July 2021. Major improvements in this release include:

- **Renditions Updater Tool** — When you move from using AutoViewer to using PDFTron, you must create renditions for all previous revisions of your documents in the Vault. To simplify this process, there is a new **Renditions Updater** tool which allows you to generate these renditions in bulk.

- **Commands on Search Results** — You can now perform bulk updates on files by executing commands on search results. This functionality allows you to make changes to your documents more quickly.

- **Confirmation Pages** — You can now add confirmation pages to several event sequences in VBScript.

- **New Quick Change** — If your vault is configured to use new Quick Change, workflow events are triggered instead of working copy events, and Quick Change privileges are replaced with Workflow settings.

- **Lock Documents and Synchronize Workspace** — You can now synchronize your workspace in PowerWeb, as well as lock documents and synchronize your workspace.

- **Subscribe / Unsubscribe** — The **Change Subscription** command in PowerWeb has been split into four separate commands: **Subscribe**, **Subscribe to Project**, **Unsubscribe**, and **Unsubscribe from Project**. Additionally, you can now subscribe or unsubscribe multiple users in a batch, if you have the **Allow Management of Subscriptions for others** privilege.

Additional minor enhancements, third-party application support, and bug fixes are also included. The following sections describe the specific changes and improvements in this release.

Administration Improvements

Learn how to update the online help link in your environment.

We've made these improvements to Meridian Enterprise administration. For more information about these improvements, see the articles referenced in the descriptions below.

Administration improvements

Reference	Description
MPS-35261 MPS-37416	When you move from using AutoViewer to using PDFTron, if you want to see previous renditions of your documents you must create those renditions. To simplify this process, there is a new **Renditions Updater Tool** which allows you to generate these renditions in bulk. When you use this tool, the rendition settings from the current version of the document are applied to all previous renditions of the document.
MPS-23752 MPS-34809 MPS-35248 MPS-35249	Quick Change can now be converted to a configurable workflow, allowing you more configuration options. In the new Quick Change, workflow events are triggered instead of working copy events, and Quick Change privileges are replaced with Workflow settings. Learn how to convert to new Quick Change.
MPS-19899	When you configure the ACME CAD Converter Rendering Module, you can now enter multiple reference paths as a semi-colon separated list in the **Font search path** field.
MPS-32179	When you visit the **System Settings** page in the Meridian Administration Console if you have Administrator permissions and the Hyperion site URL in the Enterprise Server configuration database is different to **Server Name**, you are now prompted to update the URL in the configuration database.
MPS-32476 MPS-33892 MPS-33893 MPS-33730 MPS-33731	The **Update title blocks before rendering** option in the Aspose Rendering Module Options is now available for these document types: • **Doc(x); Docm** • **Xls(x); Xlsm** • **Ppt(x); Pptm** • **Vsdx** When using the Aspose render engine, this eliminates the need to run Microsoft Office applications on servers.
MPS-32560	The new **PDF LAYERS GROUP NAME** column in translation layer tables allows you to specify a group to which a matching layer should belong. You can now leave this field blank so that the layer is not added to a group.
MPS-32650	When you edit a site, if you are not a member of the User Administrators group, but are a member of the Local User Administrators group for that Site you can now add and remove any Meridian users as members.

Reference	Description
MPS-33695 MPS-32491 MPS-32489 MPS-34892 MPS-36537	When you Manage a Meridian Enterprise Vault, you can now choose the sites that a repository belongs to. This allows you to delegate creation and management of layer translation tables to local administrators. You can: • Restrict creation and editing of layer translation tables to only local administrators at a site • Apply layer translation tables to specific Meridian repositories so that users in PowerWeb can only select from layer translation tables associated with that vault. If you have the Application Administrators permission, you can select any Meridian vault. If you do not have the Application Administrators permission, but are a member of a local administrator group for one or more sites, you can apply the layer translation table to repositories associated with those sites.
MPS-33972	The new **Multiple pages per sheet** Aspose rendering output option allows you to select the way in which users navigate a large Excel Spreadsheet rendered with Apose.
MPS-33648	Named Licenses can now be reassigned after 30 days of inactivity.
MPS-36047	A new **SynchronizeDirect** registry key value was added. We recommend you use this setting if you use the following file formats so that the results of synchronization will be available immediately: dst; dgn; dwg; doc; docx; docm; xls; xlsx; xlsm; ppt; pptx; pptm; vsdx; vsdm
MPS-26305	The **UpdateContentPublisher** registry key value's impact on system behavior has changed with the addition of the **SynchronizeDirect** registry key mentioned in the previous ticket. This registry key value now controls whether an update is processed by the Publisher or by an application link.
MPS-34689	There are two new registry key settings which allow you or your users to control when automatic uploads of AutoCAD files are completed. This setting is called **ManualUpload**. If automatic uploads are disabled, a new **Upload Document** button is added to the Meridian ribbon. This button is visible in remote mode only, and is enabled after the first save of the document.
MPS-26346	Users are no longer able to avoid electronic signature requirements by logging into application integrations or cad links.
MPS-34966	A new registry key setting has been added which allows you to control whether a Revit project is uploaded to the vault when the project is saved.
MPS-37083	A security update made it so that Windows Search 2019 didn't allow the use of IFilters. To address this, we have added two new services to support content indexing. These are the **Meridian Document Content Service** and the **Meridian Content Indexing Service**.

Reference	Description
MPS-22110	A new **LockOnCheckOut** registry key was added. This registry controls whether PowerWeb downloads and locks a document during a workflow state change. By default, downloading and locking the document is disabled.
MPS-27110	You can now configure thumbnail width and height on a rendition job.
MPS-36045	A new **RefrainFromErrors** registry key value was added. This registry key resolves an issue where field values in a form were not being updated correctly, which lead to an incorrect error message. This registry key value is disabled by default.
MPS-36057	A new setting has been added which allows you to disable the To-Do List in Meridian Mobile.

Application Link Improvements

We've made these improvements to application links. For more information about these improvements, see the articles referenced in the descriptions below.

Application link improvements

Reference	Description
MPS-32952	When in remote mode, the application integration now detects files in the local workspace that do not exist in the vault and allows you to import them as new documents.
MPS-33713 MPS-33715 MPS-33716	All software in the AutoDesk 2022 family is now supported.
MPS-28273 MPS-37528	A new **ConfirmCopyFPRSublevels** setting has been added to the **Application Integration** tab of the **Application Link Settings** section of the Configurator. This setting controls whether the system copies the file path properties when the user copies and pastes a document into a different area of the application. This setting is enabled by default.

Client Improvements

We've made these improvements to Meridian clients. Improvements apply to the PowerWeb client application unless otherwise stated. For more information about these improvements, see the articles referenced in the descriptions below.

Client improvements

Reference	Description
MPS-24845 MPS-34047 MPS-34087 MPS-34137 MPS-34803	You can perform bulk updates on files by executing commands after clicking the **Search Results** heading. This will apply the command you select to all results in your search, including results on subsequent pages.
MPS-23752 MPS-34809 MPS-35248 MPS-35249	You can now use Quick Change as a configurable workflow. This allows more configuration possibilities for your administrator. If your vault is configured to use new Quick Change, workflow events are triggered instead of working copy events, and Quick Change privileges are replaced with Workflow settings.
MPS-35505	You can now synchronize your workspace in PowerWeb, as well as lock documents and synchronize your workspace.
MPS-24940	If you have the privilege to unlock a document for others, you can now select several documents to unlock in one go instead of unlocking documents individually.
MPS-35996 MPS-35993 MPS-37242	The **Change Subscription** command in PowerWeb has been split into two separate commands: **Subscribe** and **Unsubscribe**. Additionally, you can now subscribe or unsubscribe multiple users in a batch, if you have the **Allow Management of Subscriptions for others** privilege.
MPS-37243	Two new commands have been added to PowerWeb: **Subscribe to Project** and **Unsubscribe from Project**. These commands allow you to subscribe and unsubscribe from project-specific events. Additionally, you can subscribe or unsubscribe multiple users in a batch, if you have the **Allow Management of Subscriptions for others** privilege.
MPS-32566	The **Publisher Queue** is now filtered so that it only displays jobs for the current vault.
MPS-32568	The **Audit Log** is now filtered so that it only displays events for the current vault.
MPS-32288	White space has been reduced on some property pages.
MPS-339 MPS-24844	References and File Properties can now be synchronized for a batch of AutoCAD, Microstation, and Office documents in PowerWeb.
MPS-32491	When you edit the rendition properties, the layer translation tables you can choose from are determined by the restrictions that your administrator has configured.
MPS-36389	In PowerWeb, when any dependency of the selected document cannot be released as master, the **Release as Master** action now fails.

Reference	Description
MPS-34965	There is now a setting in your Inventor options which allows you to disable automatic upload of drawings when you save or close the drawing. When this setting is enabled, you must click the **Upload Drawing** button in the **Link** ribbon to upload your drawing to the vault.
MPS-33649	The behavior of the **Include CAD References** setting when sending documents to Meridian Portal has been modified. In PowerWeb, when the user sends the document to Portal with CAD references for revision: • editable reference documents are included for revision • non-editable reference documents are included for revision In PowerWeb, when the user sends the document to Portal with CAD references for information: • reference documents are included for information The Portal-side of this enhancement is still being developed. When it is complete, you will see an update in the What's New page for Meridian Cloud.
MPS-37354	If a user sends a project copy to Portal, and the project copy has CAD references to documents outside the project, these referenced documents are now included in the package for information.
MPS-33650	CAD references are now updated in PowerWeb when a package is sent from Portal to PowerWeb.
MPS-34005	The Site Cache client normally downloads documents via the Site Cache server, but can also directly download document from the PowerWeb Server. This may result in the document being downloaded to a different local folder, depending on the configuration of the client. In some cases, the Site Cache client may silently switch to direct download, resulting in the document not being in the expected place. The Site Cache client now warns that the document was not downloaded via the Site Cache server.
MPS-35722	Synchronizing a property value to a child file in PowerUser now works as expected.
MPS-34976	We have resolved a synchronization issue in PowerUser. Now, when a document tag is deleted, both the document and tag are marked as changed.
MPS-35605	Occasionally, errors were logged in the Enterprise Server log stating that a package was not sent to Portal due to documents being in the incorrect state, even though the package was transferred successfully to Portal. This has been fixed.
MPS-35167	In v6, Meridian Mobile will use Property Navigation by default.

Configuration Improvements

We've made these improvements to Meridian Enterprise configuration. For more information about these improvements, see the articles referenced in the descriptions below.

Configuration improvements

Reference	Description
MPS-33045	You can now create a QuickChange Workflow Defintion in the Configurator.
MPS-33750	For the new QuickChange Workflow Definition, you cannot add or remove states or transitions in the workflow diagram.
MPS-23460 MPS-35662	Users are no longer required to have the rename privilege to replace a document. This enhancement applies to both PowerWeb and PowerUser.
MPS-23825	You can now give users a security privilege to edit the annotations of other users.
MPS-35199	Clients using the **Aspose Rendering** module can now choose whether to migrate their document properties to the **Custom** section of the Office link or to continue to use the **OfficeCustomProperties** section. If you want to continue using the **OfficeCustomProperties** section, you will need to add a new record to your Office link settings.
MPS-33893 MPS-35126	If you have the **Aspose Rendering Module** enabled, Meridian now supports reading references for Microsoft Word, Excel, PowerPoint, and Visio documents without having Microsoft Office installed.
MPS-35071	You can now choose the way extents of hotspots are recalculated when a user updates a rendition in PowerWeb and the render job is configured to extract hotspots. To do this, the Configurator application now allows you to add the **RecalculateExtentsOnHotspotExtraction** option to the **TAGEXTRACTION** settings in the **AutoCAD** tab of the **Application Link Settings**.
MPS-32527	When a user creates an export package type in PowerWeb, and the package includes documents that have a reference with a reference type that has the **Include to a Portal package** setting enabled, the referenced documents will be included in the export package. References of the referenced documents will NOT be included in the export package.

Customization Improvements

We've made these improvements to Meridian Enterprise VBScript customization. For more information about these improvements, see the articles referenced in the descriptions below.

Customization improvements

Reference	Description
MPS-34125 MPS-34821 MPS-34822 MPS-34823	You can now add confirmation pages at several points in the document copy event sequence. The new events we added are: • **PreInitializeCopy** • **PreBeforeCopy** PreBeforeCopy is not called when executing Copy with References. Copy with References will call PreBeforeCopyWithReferences. • **TerminateCopy** The PreInitializeCopy and PreBeforeCopy events can be used in wizards relating to copying documents. The TerminateCopy event occurs when a copy event is terminated.
MPS-34761 MPS-32620	You can now add a confirmation page to the **Copy with References** wizard.
MPS-34835	You can now add confirmation pages to custom commands.
MPS-34831 MPS-34340	You can now add a confirmation page at several points in the revoke a document event sequence.
MPS-34306	Two new arguments have been added to the **Batch.Argument** object property. The **DocumentPath** argument provides the location of the document in the local workspace starting from the root of the vault. The **MatchedTypes** argument provides a semicolon-delimited list of internal type names matched to the document extension. These arguments will only process if the **NewLibraryComponentDocType** setting is disabled.

MPS-37087	We resolved an issue where the **Copy Multiple** functionality was returning an error message. To implement this fix, add the following code to your VBScript:
	
	``
	Sub DocCopyMoveEvent_BeforeCopy(Batch, TargetFolder)
	
	    Client.Confirmation(AS_CONFIRM_COPYFPRSUBLEVELS) = True
	
	End Sub
	``

Viewer Improvements

We've made these improvements to Meridian Enterprise viewer. For more information about these improvements, see the articles referenced in the descriptions below.

Viewer improvements

Reference	Description
MPS-36772	You can now print the view displayed in the PDFTron **Compare** window of **PowerWeb** or **Explorer**.

Explorer Improvements

We made these improvements to Meridian Explorer. For more information about these improvements, see the articles referenced in the descriptions below.

What's new in 2021 R2

Reference	Description
MPS-21781	Explorer now uses the same file size limit as Meridian Enterprise for synchronizing revisions, renditions, or hybrid parts.
MPS-36772	You can now print the view displayed in the PDFTron **Compare** window of **PowerWeb** or **Explorer**.

Publisher Improvements

We made these updates to Publisher. For more information about these improvements, see the articles referenced in the descriptions below.

What's new in 2021 R2

Reference	Description
MPS-16128	You can now configure a setting which sets the **Modified** and **Modified By** fields in Sharepoint to the values they have Meridian.
MPS-36773	There is a new option for the Aspose Rendering Module which renders HTML documents to the smallest standard paper size that can contain the width of the document.
MPS-26305	The **UpdateContentPublisher** registry key value's impact on system behavior has changed with the addition of the **SynchronizeDirect** registry key. The **UpdateContentPublisher** registry key value now controls whether an update is processed by the Publisher or by an application link.

Known Issues

The following known issues are in the Meridian Enterprise 2021 R2 release.

Known Issues

Reference	Description
MPS-36462	When searching in PowerWeb, if the user sets a filter on a column and starts the **Change to Draft** workflow transition on a batch of documents, the workflow transition will only be applied to the first document in the batch.
MPS-36420	In the **Create Document** wizard in PowerWeb, if the user enters a new value in a property field and then uses the **Tab** key on their keyboard to move to the next field, the wizard page refreshes, and the focus is lost.
	Focus determines how your keyboard interacts with elements on the page. In this example, the user cannot type in the next field, because the field is no longer in focus. The user would have to manually click inside the field to continue editing.
	To learn more about focus, see Google's Web Fundamentals article titled Introduction to Focus.
	This known issue only impacts IE 11 and Microsoft Edge.
MPS-32851	When **Enable XOD Viewing** is enabled after previously being disabled, all renditions generated with the Aspose render engine need to be regenerated.

Update the Online Help Link - 2021 R2

We recently moved the Meridian Online Help to a new website! However, the links in the product need to be updated.

PowerWeb

To update the Online Help link in PowerWeb:

1. Access the HKEY_LOCAL_MACHINE\SOFTWARE\Cyco\AutoManager Meridian\CurrentVersion\WebLink registry key.
2. Change the HelpURL setting to https://help.meridian360.com/ .
3. Save your changes.

Explorer

To update the Online Help link in Explorer:

1. Navigate to C:\ProgramData\BlueCieloECM\Hyperion\WebConfigDto.dat.
2. Set the following values:
   - UserHelpURL — https://help.meridian360.com/2021_R2/
   - AdminHelpURL — https://help.meridian360.com/2021_R2/
   - PublisherHelp URL — https://help.meridian360.com/2021_R2/

2021 Release Notes

Meridian Enterprise 2021 was released in February 2021. The major themes of this release are:

- **Waiting lists** — Allow multiple engineers to create project copies of a document and edit the document when it's their turn in the queue.
- **Hotspots** — View hotspots on a PDFTron rendition and navigate to additional information from a hotspot in PowerWeb and Meridian Explorer.
- **Translation layers** — Configure layer translation tables, which contain rules that determine how layers in documents are converted when a PDF rendition is created from a document.
- **Sites** — You can now delegate application management to users on local sites.

The following sections describe the specific changes and improvements in this release. Additional minor enhancements, third-party application support, and bug fixes are also included.

Administration Improvements

The following improvements have been made to the administration of Meridian Enterprise. For more information about these improvements, see the articles referenced in the descriptions below.

Administration improvements

Reference	Description
MPS-24312	You can now configure translation layer rules that determine how layers in documents are converted when a PDF rendition is created from a document. Learn more in the *Create and Edit Layer Translation Tables* section of the *Meridian Enterprise Server Administrator's Guide*.

Reference	Description
MPS-24320 MPS-24323 MPS-32336	You can now delegate application management to users on local sites. This is done by creating sites and adding groups to those sites. Users with privileges to manage a group in a site can use scopes to restrict access to views, reports, and repositories. The **Configure Views** security permission was added so that the permission to create views can be restricted by site. The **Configure Views and Reports** vault privilege was added so that access to navigation views and views can be controlled by site. To learn more, refer to the following articles: • *Create and Edit Sites* in the *Meridian Enterprise Server Administrator's Guide* • *Security Permission Descriptions* in the *Meridian Enterprise Server Administrator's Guide* • *Security Privilege Descriptions* in the *Meridian Enterprise Configuration Guide*
MPS-28504	You can now use the **LogTimeStampFormat** registry value to specify that the date in a comment log for a workflow action or other action is shown as the full month name. Learn more about this registry key in the *HKEY_LOCAL_ MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\Server for a format string* article in the *Registry Keys* section of the *Meridian Enterprise Administrator's Guide*.
MPS-29350	Modifying components in Meridian setup now works correctly.
MPS-29990	The new hotspot extraction options allow you to determine whether hotspots are to be extracted for the rendition job. Additionally, you can choose whether to: • only extract hotspots only when the rendition is out dated • trigger the Meridian script event once hot spots are successfully updated To learn more, see *Configure Hotspot Extraction Options* in the *Meridian Enterprise Server Administrator's Guide*.
MPS-30106	UpdateSiteCacheHealthStatus no longer produces an error after the configuration database is created
MPS-30660	You can now configure the properties shown when users hover over a hotspot on a PDFTron rendition. To learn more, see *Configure Hotspots* in the *Meridian Enterprise Server Administrator's Guide* and *View Documents* in the *Meridian Explorer User's Guide*.
MPS-31437	You can now configure a view to download a document with redlines. To learn more, see *Configure the Results Grid Layout* in the *Meridian Enterprise Server Administrator's Guide*.

Reference	Description
MPS-32153	The repository option **Transmittal Document Type** was added to identify the document in Meridian that is to be used as the transmittal sheet. The content of the first document that has this Document Type is sent to Portal as the transmittal sheet. To learn more, see *Manage a Meridian Enterprise Vault* in the Meridian Enterprise Server Administrator's Guide .

Application Link Improvements

The following application link improvements have been made. For more information about these improvements, see the articles referenced in the descriptions below.

Application link improvements

Reference	Description
MPS-20698	Scaling\fit did not work for some DGN drawings.
MPS-29410	You can now create an Aspose rendering profile that uses the Aspose render engine. This allows you to create rendering profiles that output to these formats: **Word** – .doc, .docx, .docm **Excel** – .xls, .xslx, .xlsm **Powerpoint** – .ppt, .pptx **Visio** – .vsx, .vsdx images **Note:** Before you can use the Aspose Rendering Module, you must unregister BcOfficeDocAccess.dll and ensure that if the DocAccess DLLs are unregistered, they are re-registered. To learn more, see *Configure the Aspose Rendering Module Options* in the *Meridian Enterprise Server Administrator's Guide*.
MPS-30505	SolidWorks 2021 is now supported.
MPS-30688	An issue in Microstation with the Update References command for Raster References was resolved.
MPS-30707	An issue with import packages not recognizing AutoCad overlay references was resolved.
MPS-31514	An issue that occurred when importing documents using application integration (AMHook 64) was resolved.

Reference	Description
MPS-32452	The **Save As** dialog box now works the same in online and remote modes. In the **Save As** dialog box, the file name is filled with last used file name. In the office application the value is empty.
MPS-33977	Creating new documents in Microstation using remote mode no longer fails.
MPS-33979	An error no longer occurs when you save a new document in Remote mode and select location via Application Integration.

Client Improvements

The following improvements have been made to the PowerWeb client application unless otherwise noted. For more information about these improvements, see the articles referenced in the descriptions below.

Client improvements

Reference	Description
MPS-15609 MPS-32027	You can now view hotspots on a PDFTron rendition and navigate to additional information from a hotspot in PowerWeb and Meridian Explorer. To learn more, see *View Renditions* in the *Meridian Enterprise User's Guide*. **Note:** 3D PDFs are not supported. Renditions with PRC support ON are not shown in PowerWeb.
MPS-15638 MPS-15639 MPS-15640 MPS-15641	When you view a rendition, you can now: • delete a hotspot in edit mode • move and resize hotspot in edit mode • change the target document of a hotspot • show and hide redlines. To learn more, see *View Renditions* and *Create, Edit, and Delete Hotspots* in the *Meridian Enterprise User's Guide*.
MPS-15643	When you copy a document with hotspots, the hotspots are also copied so that you do not need to reenter them.
MPS-15905	Lock document command now works for a single document in an editable state when LockOnCheckOut is 0.

Reference	Description
MPS-16147 MPS-16017 MPS-16018	Import package from file system no longer fails with Invalid Arguments error. Sending documents to Meridian Portal no longer results in errors.
MPS-17495	In PowerWeb you can now enter a comment when you start or release a Quick Change. This new feature only works with SiteCache mode enabled.
MPS-22325	Multiple engineers can create project copies of a document and edit the document when it's their turn in the queue. Waiting lists can now be used to manage waiting project copies. To learn more about waiting lists, see the *Waiting Lists* article in the *Meridian Enterprise User's Guide*.
MPS-27852	Write title block now works in PowerWeb when a document is created from a Template or the Copy, Derive, or Replace command.
MPS-31994	Previously, in PowerWeb, it was not possible to make multiple copies of a document in another folder. You can now use the **Copy Multiple** option to make multiple copies of documents in a different folder. To learn more about this option, see the *Copy a Document* article in the *Meridian Enterprise User's Guide*.
MPS-32152	When you send documents to portal, the package now includes documents that have a reference belonging to a Reference Type configured with the option **Include to a Portal package**.
MPS-32370	An issue with creating a project copy was fixed.
MPS-24043	When you release a project copy as a new master document, the outgoing references are now processed the same way as PowerUser. The environment setting to include references on release is now honored. To learn more about this functionality, see the *Release a Project Copy as a New Master Document* article in the *Meridian Enterprise User's Guide*.
MPS-24677 MPS-24678	You can now set the print quality to be used in PDFTron on a document and a rendition. To learn how to use this setting, see the *Edit the Rendition Properties* article in the *Meridian Enterprise User's Guide*.
MPS-25113	In PowerWeb you can now use redline functionality on a rendition after the document is released to master.
MPS-25417	Watermarks no longer unexpectedly appear in PDFTron viewer when redlining.
MPS-27694	Error no longer occurs when you create a project copy in PowerWeb.
MPS-27986	In PowerWeb, an object not found error no longer occurs when you create a project copy with unreleased refs.
MPS-29062	When you edit redlines in PDFTron and save the changes, the changes are now saved correctly.

Reference	Description
MPS-29411 MPS-30542	In PowerWeb, when you print a document in PDFTron, you can zoom to a particular part of the document and then you can use the **Print view** button on the **Print** dialog box to print that view. To learn how to do this, see the *Print a Document* article in the *Meridian Enterprise User's Guide*.
MPS-29515 MPS-29497	Populated document properties no longer require a value when it has already been entered.
MPS-29511	Revisions for native PDF documents are no longer shown as the first revision by PDFTron viewer.
MPS-29588 MPS-30840 MPS-32209	Several issues with dragging and dropping files were fixed.
MPS-29805	In PowerWeb when you release a document from a quick change, and that document has references, the references are processed before the parent document.
MPS-29840	An issue with renditions being named as .PDF instead of .DWF was fixed.
MPS-29850	An issue with a validation option was fixed.
MPS-29894	An issue with moving documents through a workflow was fixed.
MPS-29933	An issue with the AMM Tag filter was fixed.
MPS-30115	In PowerWeb, when you quickly single select check boxes in the main grid the action is no longer mistakenly registered as double-click.
MPS-30119	In PowerWeb when you release a document from a document type workflow or custom workflow definition, and that document has references, the references are processed before the parent document.
MPS-30177	In PowerWeb, Send to Meridian Portal from a workflow transition now works when Site Cache mode is on.
MPS-30312	When you delete a document in PowerWeb, if that document has incoming references, a dialog box now prompts for confirmation in the same way as PowerUser.
MPS-30470 MPS-31964	Renditions can now be shown in PDFTron when the domain registry key is set.
MPS-30561	PowerWeb was much slower after changing to subscription licenses. Performance of cloud licensing has been improved.
MPS-30654	An error no longer occurs on workflow transitions where Site Cache Mode is turned on.

Reference	Description
MPS-30685	An issue with deleting documents in PowerUser was resolved.
MPS-30828	When you view a rendition, and the document has hotspots, you can move the cursor over a hotspot to view properties of the target for that hotspot such as: • target identification number • tag type • tag number • target filename • name and values of properties in the **Hotspot Properties** column. Properties with no value for the target document are hidden. To learn how to use this feature, see the *View Renditions* article in the *Meridian Enterprise User's Guide*.
MPS-30852	The **Batch** dialog box no longer freezes on the **Create project copy and lock** operation.
MPS-31001	In PowerWeb, the ribbon has been improved so that the Command menu can display many commands with long names.
MPS-31594	In PowerWeb, properties are now in alphabetical order for Quick Search.
MPS-31983	PowerUser sets Client.ImportDetails to 1 for all scripting events related to the Copy operation. PowerWeb set Client.ImportDetails to 0 for Copy\Derive\Replace operations. The correct values are not set for each command in PowerWeb.
MPS-31986	In PowerWeb**Apply to All** in wizard pages now works for transitions in ActiveX mode.
MPS-31993	In PowerWeb, when you reassign the To-Do person on a document in an editable workflow state that they have modified in the local workspace, the changes are no longer lost. Instead, the document is uploaded and becomes read only to the previous To-Do person.
MPS-32090	PDFTron no longer generates an error on some PDFs.
MPS-32467	In PowerWeb, the **Draft Print** privilege is no longer ignored when you click the thumbnail icon.
MPS-32774	In PowerWeb, the report command for collections now works again.
MPS-32740	In PowerWeb if a user selects a Word document, the Vault has title block synchronization configured, and the rendition job is configured to update title block properties, the document properties are updated when the user updates the rendition. The existing fields in the Word document are updated, including fields in headers and footers.

Reference	Description
MPS-32814	In PowerWeb when you open a vault for which you have no permissions, an error message is now displayed instead of an empty page.
MPS-33386	The audit log was incorrect for the Copy Multiple event.

Configuration Improvements

The following improvements have been made to the configuration of Meridian Enterprise. For more information about these improvements, see the articles referenced in the descriptions below.

Configuration improvements

Reference	Description
MPS-24595	In Meridian Configurator, you can now create a document type that determines the way in which documents are locked when multiple people are to work on the same document. The **Concurrent Engineering** tab has been added to enable you to specify the option you want. If **Allow concurrent Engineering** is selected, you can choose from: • **Merge workflow** — current behavior for merging with master • **Merge project** — allow multiple project copies to be created • **Serial change with release** — allow your organization to use waiting lists for project copies To learn how to use waiting lists, see the *Waiting Lists* article in the *Meridian Enterprise User's Guide*. **Note:** These options apply to new documents created with the document type. Waiting project copies are not created if the document type is changed on an existing document. For example, if you create a document with the **Generic Document** type, change the document type of that document to one with **Serial change with release**, create a project copy and then attempt to create waiting project copy, an additional project copy is created instead of a waiting project copy.
MPS-30381	With the **Update Hotspots** document privilege, you can now allow users to manipulate hotspots. To learn more about security privileges, see the *Security Privilege Descriptions* article in the *Meridian Enterprise Configuration Guide*.
MPS-30777	In Meridian Configurator property sets, you can now apply input restrictions to memo properties that are enabled for scripting. To learn how, see the *Restrict User Input* article in the *Meridian Enterprise Configuration Guide*.

Reference	Description
MPS-30857	When you create and edit scopes, you can now select or deselect these commands on the **Command Filter** tab: • Transfer to Next • Create For Info Copy To learn more, see the *Create And Edit Scopes* article in the *Meridian Enterprise Configuration Guide*.
MPS-32140	An issue was resolved where importing packages failed with the message "There is not enough space on the disk" > **Note:** > The default behavior is for the package source folder to be copied to the Temp folder of the service account in Meridian Enterprise Server. To change this behavior, create this .dat file: > ```%ProgramData%\BlueCieloECM\EnterpriseServices\ImportPackageOptions.dat``` > with this content: > ```{"DoNotDownloadFromFolder":true}```
MPS-32151	The **Include to a Portal** package option was added to reference types so you can specify that references belonging to the reference type should be included when a package is sent to Portal or an export package is created. To learn more, see the *Create And Edit Reference Types* article in the *Meridian Enterprise Configuration Guide*.
MPS-32328	The **Watermark** property now supports two lines. To learn more, see the *Viewer Object* article in the *Meridian Enterprise VBScript API Reference Guide*.
MPS-33140	When using script in Meridian Configurator to add watermarks in PDFTron for PowerWeb and Meridian Explorer, the watermark is now located in the correct place.
MPS-32087 MPS-32088	The **Configure Views and Reports** vault privilege was added so that access to navigation views and views can be controlled by site. To learn more about security privileges, see the *Security Privilege Descriptions* article in the *Meridian Enterprise Configuration Guide*. Report definitions can be assigned to a scope.

Customization Improvements

The following improvements have been made to the Meridian Enterprise customization features (VBScript). For more information about these improvements, see the articles referenced in the descriptions below.

Customization improvements

Reference	Description
MPS-24374 MPS-24595	The **ConcurrentEngineeringRuleProperty** property was added to the **Document** object. This allows you to specify the way in which documents are locked when waiting lists are in use for project copies. The constant **AS_CE_Rule** was added to the Meridian API Types. This contains enumerations of behaviors that you can specify for a project copy: • **AS_CER_DEFAULT** — default behavior • **AS_CER_MERGE_WF** — current behavior • **AS_CER_NOT_ALLOWED** — allow only one project copy. • **AS_CER_SERIAL_WITH_RELEASE** — allow multiple project copies. • **AS_CER_SERIAL_WITH_RELEASE** — reserved for future use. To learn more about this property, see the *Document Object Properties* article in the *Meridian Enterprise VBScript API Reference Guide*.
MPS-29411 MPS-23820	The publishing and rendering option **_PRINTING_QUALITY** was added. This allows you to get and set the print quality to use with PDFTron. You can set a value between 1 and 15. To learn more, see the *Publishing And Rendering Options* article in the *Meridian Enterprise VBScript API Reference Guide*.
MPS-30074	The **PublisherDestinationEvent_HotspotUpdated** event was added so that you can implement a script event after tag information is extracted. The event occurs in the destination vault after publishing has ended if the Hotspot Extraction option **Publisher will invoke Meridian script event when update succeeds** is selected. To learn more, see the *Publishing Events* article in the *Meridian Enterprise VBScript API Reference Guide*, and the *Configure Hotspot Extraction Options* article in the *Meridian Enterprise Server Administrator's Guide*.
MPS-30126	The **DocProjectCopyEvent_ValidateTargetFolder** event has been added to the Document Project Copy Events. This allows you to validate the target folder when an attempt is made to create a project copy. To learn more, see the *Document Project Copy Events* article in the *Meridian Enterprise VBScript API Reference Guide*.
MPS-30464	You can use the **Document.CreateWaitingProjectCopy** method to add a document as a new waiting Project Copy to the waiting list if the document is a master document with concurrent engineering options which allow creation of a waiting Project Copy. To learn more, see the *Document Object Methods* article in the *Meridian Enterprise VBScript API Reference Guide*.

Reference	Description
MPS-31501	These new methods were added to link a Meridian project to a Meridian Portal project: **Folder.LinkToPortal** **Folder.UnlinkFromPortal** These methods use **ProjectFolderPropertySet.ProjectNumber** and **ProjectFolderPropertySet.ProjectName** property values for current project folder. In addition, the new **Folder.LinkedProjectID** property returns the **ProjectFolderPropertySet.ProjectID** value for current project folder. To learn more, see the *Folder Object Methods* and *Folder Object Properties* articles in the *Meridian Enterprise VBScript API Reference Guide*.
MPS-31707	You can use the **Folder.HasDocuments** property and **Folder.Delete** method in an event handler to determine whether a folder and its sub folders contain documents before deleting it. To learn more, see the *Folder Object Methods* and *Folder Object Properties* articles in the *Meridian Enterprise VBScript API Reference Guide*.
MPS-32154	**Document.ContentFromReport** allows you to replace content of the document with the output of the report with the specified name, scope, and template. To learn more, see the *Document Object Methods* article in the *Meridian Enterprise VBScript API Reference Guide*.
MPS-32155	**ImportPackage_AfterImportedFromPortal** event has been added to the BCES Import Package events to allow you to implement validation when a document is returned by a contractor. To learn more, see the *Package Events* article in the *Meridian Enterprise VBScript API Reference Guide*.
MPS-32210	When you create a batch of project copies and you use the `Batch.FailCurrent` call in the `BeforeNewDocument` event, the error message now appears in the **Detail** pane of the ActiveX window.
MPS-32701	You can use the **Document.AttachWaitingProjectCopy** method to attach an existing document as a waiting project copy. You can also use the **Document.AddReorderingComment** method to add a reordering comment to the Project Copy. To learn more, see the *Document Object Methods* article in the *Meridian Enterprise VBScript API Reference Guide*.
MPS-34130	The Meridian Enterprise .NET SDK is installed in a new location by default: C:\Program Files\BC-Meridian\Meridian .NET SDK\v4.0\bin. Projects that contain interop library references that point to the old location (C:\Program Files\BC-Meridian\BlueCielo Meridian .NET SDK\v4.0\bin) will need to be updated to point to the library in the new location.

Viewer Improvements

The following improvements have been made to the Meridian Enterprise viewer. For more information about these improvements, see the articles referenced in the descriptions below.

Viewer improvements

Reference	Description
MPS-31991	An issue with set watermark on a Meridian environment split over several machines was resolved by installing the viewer components on the Hyperion server.
MPS-15609 MPS-32027	You can now view hotspots on a PDFTron rendition and navigate to additional information from a hotspot in PowerWeb and Meridian Explorer. To learn more, see the *View Renditions* article in the *Meridian Enterprise User's Guide*. **Note:** 3D PDFs are not supported. Renditions with PRC support ON are not shown in PowerWeb.
MPS-15638 MPS-15639 MPS-15640 MPS-15641	When you view a rendition, you can now: • delete a hotspot in edit mode • move and resize hotspot in edit mode • change the target document of a hotspot • show and hide redlines. To learn more, see *View Renditions* and *Create, Edit, and Delete Hotspots* in the *Meridian Enterprise User's Guide*.
MPS-30828	When you view a rendition, and the document has hotspots, you can move the cursor over a hotspot to view properties of the target for that hotspot such as: • target identification number • tag type • tag number • target filename • name and values of properties in the **Hotspot Properties** column. Properties with no value for the target document are hidden. To learn more, see the *View Renditions* article in the *Meridian Enterprise User's Guide*.

Explorer Improvements

We made these improvements to Meridian Explorer. For more information about these improvements, see the articles referenced in the descriptions below.

What's new in 2021

Reference	Description
MPS-15609	You can now view hotspots on a PDFTron rendition and navigate to additional information from a hotspot in PowerWeb and Meridian Explorer. To learn more, see the *View Renditions* article in the *Meridian Enterprise User's Guide*. **Note:** When **Enable XOD Viewing** is turned off, an error may occur in PowerWeb or Meridian Explorer when viewing a rendition of a complex drawing using PDFTron with Microsoft Internet Explorer. To learn more about this setting, see the *Configure the Viewer Options* article in the *Meridian Enterprise Server Administrator's Guide*.
MPS-24836	Without installing extra components on your computer, you can now select a batch of documents and: • download renditions • download renditions with redlines • download source files The selected files are added to an archive that you can download.
MPS-29407 MPS-29408 MPS-31990	You can now print renditions for a batch of documents. To learn how, see the *Print Renditions* article in the *Meridian Explorer User's Guide*.
MPS-29411 MPS-30543	In Meridian Explorer, when you print a document in PDFTron, you can zoom to a particular part of the document and then you can use the **Print view** button on the **Print** dialog box to print that view. To learn how, see the *Print a Document* article in the *Meridian Explorer User's Guide*.
MPS-29104	You can now define more than one External table for a Meridian Explorer repository.
MPS-29409	When downloading a document or a rendition, the **CONFIRM SITECACHE DOWNLOAD** dialog box only appears when site cache download confirmation is enabled for the installation.
MPS-29786	Duplicated folders in Meridian no longer prevent Meridian Explorer synchronization.

Reference	Description
MPS-29803	In the **PDFTron Viewer Settings** you can enable XOD viewing, which allows users to view XOD files instead of native PDFs in PDFTron. To learn more, see the *Configure the Viewer Options* article in the *Meridian Enterprise Server Administrator's Guide*. **Note:** When Enable XOD Viewing is turned off: • An error may occur in PowerWeb or Meridian Explorer when viewing a rendition of a complex drawing using PDFTron with Microsoft Internet Explorer. • Updating a rendition may fail if EDM server and Enterprise Server are located on the same machine, and Content Indexing (Windows Search) is ON.
MPS-29627	Batch print no longer blocked when printing large number of documents.
MPS-30660	You can now configure the properties shown when users hover over a hotspot on a PDFTron rendition. To learn more, see *Configure Hotspots* in the *Meridian Enterprise Server Administrator's Guide* and *View Documents* in the *Meridian Explorer User's Guide*.
MPS-31437	You can use the Download (Rendition with Redlines) option to download the rendition as a single document including redlines.
MPS-31522	When **Enable XOD Viewing** is not selected and instead, the streams of the document are stored in SQL, and Meridian Enterprise Server does not have access to the Meridian stream. The PDF is now shown correctly in PDFTron. To learn more about the **Enable XOD Viewing** setting, see the *Configure the Viewer Options* article in the *Meridian Enterprise Server Administrator's Guide*.
MPS-31502	Hotspots are now correctly synchronized.
MPS-31526	An issue with the TimeZoneOffset Cookie was fixed.
MPS-31872	Several issues withe the **Download rendition** command in ActiveX mode were fixed.
MPS-31917	An error that occurred during Meridian Explorer synchronization was fixed.
MPS-31960	When users view or download documents in Meridian Explorer from outside their organization, correct hyperlinks are now generated.
MPS-31991	An issue with set watermark on a Meridian environment split over several machines was resolved by installing the viewer components on the Hyperion server. On split environments, the viewer components must be installed on the Hyperion server.
MPS-32604	An additional erroneous file is no longer created when downloading renditions.

Reference	Description
MPS-32917	On the **Document** property page, the **Document URL** and **Rendition URL** are now presented as hyperlinks that you can select.
MPS-33435	A display issue was fixed on the Meridian Explorer home page that affected items in the recent elements list with long file names.

Publisher Improvements

We made these updates to Publisher. For more information about these improvements, see the articles referenced in the descriptions below.

What's new in 2021

Reference	Description
MPS-29145	In Publisher, an issue with the Oracle Archive Log file growing rapidly was fixed.
MPS-29792	An issue was fixed where deleted users from Meridian Portal were still shown in the user selection box when a project was linked to Portal or when a new project in Portal was created from within Meridian.
MPS-29885	An issue where the Publisher extension could not be enabled for a meridian vault was fixed.
MPS-30077	An issue with sending documents to Meridian Portal was fixed.
MPS-30759	When you create a transmittal package, it is now sent to the correct user.
MPS-32014	Rendering jobs no longer clean local workspace folder and MetaData file incorrectly.
MPS-32740	In PowerWeb if a user selects a Word document, the Vault has title block synchronization configured, and the rendition job is configured to update title block properties, the document properties are updated when the user updates the rendition. The existing fields in the Word document are updated, including fields in headers and footers.
MPS-33626	Tag links are now created when all tags are selected and no links are present.
MPS-33681	After synchronizing properties to file for Word documents the correct licensing line is added to the original document.
MPS-33721	Previously, by default only the built in properties were included in the pdf document created by Aspose. Custom properties can now be included.

2020 R2 Release Notes

Meridian Enterprise 2020 R2 was released in July 2020. The major themes of this release are:

- Meridian Portal integration
- PowerWeb functionality
- Autodesk 2021 family support
- SAML authentication support for electronic signatures
- Autodesk Forge integration
- Numerous quality, stability, usability, scalability, and performance improvements

The following sections describe the specific changes and improvements in this release. Additional minor enhancements, third-party application support, and bug fixes are also included.

Administration Improvements

The following improvements have been made to the administration of Meridian Enterprise. For more information about these improvements, see the articles referenced in the descriptions below.

Administration improvements

Reference	Description
MPS-14116	Fixed an issue that could cause documents that have an umlaut character in their name to import from packages without file content.
MPS-17525	Additional parameter data is included in event log messages when Hypertrieve stops responding during certain operations.
MPS-19924	Fixed an issue that could cause full-text content indexing to fail.
MPS-23364	Fixed an issue that could cause the Vault Consistency Wizard to stop working with large vaults when the **MaximumCacheSize** setting is set to the default value.
MPS-23638	Detailed information is now included in the Vault Consistency Wizard log file for very large compartment warnings.

Reference	Description
MPS-23700 MPS-23705 MPS-26353	In PowerWeb, electronic signatures authenticated via an OpenId identity provider are now supported when opening protected vaults or by workflow transitions as described in *Sign Documents* in the *Meridian Enterprise User's Guide*. Configuration is described in *Configure OpenId Connect* in the *Meridian Enterprise Administrator's Guide* for on-premises installations and in Configure a Third-Party Identity Provider for Meridian Cloud.
MPS-23845	Microsoft SQL Server 2019 Enterprise is now supported.
MPS-24008	In an import profile, the only option for **Existing documents** is now **Update** when the destination is Meridian Portal as described in *Create an Import Profile* in the *Meridian Enterprise Server Administrator's Guide*.
MPS-24713	A new utility program is installed with Meridian Enterprise to test server connectivity to the Meridian Cloud license service as described in *Test Cloud License Server Connectivity* in the *Meridian Enterprise Administrator's Guide*.
MPS-25005	A new registry value **MailServerParameters** has been added to configure different SMTP servers per vault as described in the *HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\Installed DataStores\<vaultname>* article in the *Registry Keys* section of the *Meridian Enterprise Administrator's Guide*.
MPS-25110	Fixed an issue that could cause poor performance when adding members to a group in Meridian Enterprise Administrator when the **Use Enterprise Server for user management** option is enabled.
MPS-25179	A new server registry value **XMLValidation** has been added as described in the following topic to prevent authoring applications from crashing when the vault is searched in remote mode and the vault contains documents that contain invalid XML symbols. *HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\WebLink* in the *Registry Keys* section of the *Meridian Enterprise Administrator's Guide*
MPS-25185	Packages to be sent to Meridian Portal no longer need to wait for new documents to be synchronized to the Meridian Explorer repository by a scheduled publishing job. The first synchronization job defined for a vault will now be run automatically if a new document or one of its references is unsynchronized.
MPS-25251	Fixed an issue in the Meridian Cloud Connector installation package that prevented that prevented user-configured paths from being retained during an upgrade.
MPS-25615	Fixed an issue in the Meridian Cloud Connector installation package that prevented European users from logging in through Application Integration.
MPS-26990	The subscriptions and audit log viewer (WebExtensibilityDBViewer) web application now supports the Microsoft OLE DB Driver for SQL Server (MSOLEDBSQL).

Reference	Description
MPS-28036	A new service **ContentIndexing** has been added to the Windows application events log to help with search troubleshooting by Accruent Support.
MPS-28112	Fixed an issue that could cause **Local DB update failed** and **bad gateway** errors when a client PC outside the local domain attempts to download documents with a site cache connected and local workspace enabled.
MPS-28159	Fixed an issue that could prevent corrupted AutoCAD drawings from logging errors when reference resolutions fails during import package scanning.
MPS-28162	Fixed an issue that could cause packages sent from Meridian Portal to fail to import if date/time values in the metadata file were specified the period (.) character instead of the colon (:) character.
MPS-28551	Fixed an issue that could cause drawings that contain invalid xrefs to log **Failed to read document. An unexpected error occurred** errors and Meridian Explorer synchronization jobs to fail. Now, inconsistent references will be skipped and a better warning message (**Invalid reference skipped for document**) will be added to the log.
MPS-28614	Fixed an issue that could cause packages to fail to import if the metadata file contains very long source file paths.
MPS-29220	The quantity of site cache messages in the event log has been reduced to warnings only.

Application Link Improvements

The following application link improvements have been made. For more information about these improvements, see the articles referenced in the descriptions below.

Application link improvements

Reference	Description
MPS-20836	A new setting **ReferencesCheckCircular** has been added to the AutoCAD link and MicroStation link settings. It can be used to control circular reference checking and replacement. To learn more about this setting, see the *Advanced Settings* articles for the AutoCAD and MicroStation links in the *Meridian Enterprise Configuration Guide*.
MPS-21895	The AutoCAD application link no longer prompts the user to open a document read-only or start a workflow when inserting an Xref in AutoCAD and application integration is in remote mode.

Reference	Description
MPS-21906	When Application Integration is in Remote Mode, a document thumbnail is now shown when you click the name of a document that has a thumbnail stream. Previously, a thumbnail was not available.
MPS-25292	Fixed an issue in the AutoCAD application link that could cause the properties of only one of multiple title blocks to be shown on the **Title Blocks** property page.
MPS-25622 MPS-25626 MPS-25627	Meridian now supports AutoCAD 2021 including these 2021 vertical toolsets: - Architectural - Civil 3D - Electrical - Map 3D - Map 3D - Mechanical - MEP - Plant 3D - Raster design
MPS-25623	Meridian now supports Autodesk Inventor 2021
MPS-25624	Meridian now supports Revit 2021.
MPS-25628	Meridian now supports DWGTrueView 2021.
MPS-25629	Meridian now supports Inventor Viewer 2021.
MPS-25759	Publisher now supports AutoCAD 2021 and support for AutoCAD 2016 and earlier is removed.
MPS-25888	Support for versions of Revit, SolidWorks, and Inventor earlier than 2016 is removed.
MPS-26421	Fixed an issue in the AutoCAD application link that could cause references to be disconnected between project copies if an Xref is edited in place in AutoCAD.
MPS-27001	If using two AutoCAD profiles and the first one failed, the second one started to work, but the first one could not be used for subsequent documents. The error "Detected unexpected AutoCAD process" was shown.
MPS-27058	References to the name AutoCAD P&ID in the AutoCAD Plant 3D link have been changed to AutoCAD Plant 3D.
MPS-27581	The AutoCAD link has been upgraded to use RealDWG 2021.
MPS-27836	The performance of the Autodesk Inventor link in remote mode has been significantly improved.

Reference	Description
MPS-28351	Fixed an issue in the Microsoft Office link in remote mode that could cause Microsoft Word to stop working when a user attempts to save a document in the Master branch of the vault even though it may only be saved in the Project branch.
MPS-28456	Fixed an issue in the MicroStation link that could cause title block synchronization to only work for the first drawing that is opened in a MicroStation instance and not for additional instances.
MPS-28463	A new command **Update References** has been added to the MicroStation link in MicroStation (x64) Connect Edition.

Client Improvements

The following improvements have been made to the PowerWeb client application unless otherwise noted. For more information about these improvements, see the articles referenced in the descriptions below.

Client improvements

Reference	Description
MPS-124	The **Copy** sub-menu has been removed from the folder shortcut menu.
MPS-19251	The Meridian Enterprise to Explorer synchronization has been improved so that if there is a corrupted document in a batch, only that batch fails and the rest of the synchronization job runs normally.
MPS-22108 MPS-22345	If a file is submitted to Forge and converted, you can now view it from PowerWeb. The **Show rendition by Forge Native Viewer** link allows you to view the document in Forge Viewer in a new browser tab as described in the *Third Party Viewers* article in the *Supported Software* document for this release.
	If the rendition is already in Forge, you can change the URL of the Forge Viewer for that document as described for the ChangeForgeURL method in the *Document Object Methods* article in the *Meridian Enterprise VBScript API Reference Guide*.
MPS-22787	Fixed an issue that could cause Meridian to stop working if a search is run with a very complicated DOS wildcard expression.
MPS-23682	A new option **The latest released revision** has been added to the **Send to Meridian Portal** dialog. When selected, the latest released revision of the document is sent to Meridian Portal instead of the working copy (default).
MPS-23687	The **New Version** and **New Revision** options are no longer available for import packages that have their import profile destination set to Meridian Portal.

Reference	Description
MPS-23689 MPS-23690 MPS-23691	The **Set Property Value** command now allows the user to ignore validation rules per property instead of only for all properties. The audit log now includes the old property value as the third argument. The new option is only available to users with the new **Advanced Set Property Value** privilege described in *Security Privilege Descriptions* in the *Meridian Enterprise Configuration Guide*.
MPS-24000	If a document is locked to a package such as when sent to Meridian Portal, the name of the package can be found in the new **AMDocumentPropertySet._ LOCKPACKAGENAME** property to confirm that it is safe to unlock the document.
MPS-24008 MPS-25367 MPS-26304	For the **Send to Meridian Portal** dialog **Issue Reason** option, the **For Revision** option is now available only for documents in an editable workflow state and assigned to the current user. The local workspace copies are synchronized to Meridian Portal before they are sent and the documents will stay locked until they are returned to Meridian from Meridian Portal and update the vault copy as described in *Send Documents To Meridian Portal* in the *Meridian Enterprise User's Guide*. If documents are released or not in an editable workflow state, the only option is **For Information**.
MPS-24725	The properties that may be selected as search criteria in folder searches as described in *Find* in the *Meridian Enterprise User's Guide* and the columns that are shown in the search results may now be configured by a System Administrator. For configuration information, see the Configuration Improvements section below.
MPS-24728	The collection name list in the **Add to Collection** dialog has been widened to 100 characters.
MPS-24838 MPS-26306	Users with the **Advanced Document Properties** privilege may now select from all defined properties in the **Find** dialog. Users without the privilege are limited to the properties specified in the **Preferred for Search** column collection as described in *Configure Column Layouts* in the *Meridian Enterprise Configuration Guide*.
MPS-25094	Fixed an issue that could cause error messages to be repeated in the progress dialog of batch operations.
MPS-25112	Fixed an issue that could cause **Unable to set property 'serverUrl' of undefined or null reference** errors when the page is manually refreshed while viewing a rendition in the viewer pane on Internet Explorer 11.
MPS-25186	Fixed an issue that could cause the **References** dialog to show the first revision of a selected document instead of the current revision when navigating between references.
MPS-25325	Routed properties can now be selected as search criteria as described in *Find* in the *Meridian Enterprise User's Guide*. To learn more about routed properties, see *Configure the Property Type Of a Panel Element* in the *Meridian Enterprise Configuration Guide*.

Reference	Description
MPS-25393	Fixed an issue that could cause automatic CAD drawing title block updates that occur during a workflow transition to leave the local workspace file in a writable state and prevent further actions.
MPS-25637	A new command **Reroute Projects** has been added to the **Workflow** group of the **Folder** ribbon. It can be used to reroute an entire project in its workflow as described in *Run a Workflow Transition* in the *Meridian Enterprise User's Guide*.
MPS-25763	New documents that have not already synchronized to Meridian Explorer may now be sent to Meridian Portal without waiting for the synchronization to occur. They will be synchronized automatically when sent.
MPS-25880	Fixed an issue that could cause **Cannot get object.; Object not found** errors when a user opens PowerWeb to a previously visited document that has since been revoked.
MPS-25889	A new command **Reset Profile** has been added to the users' **Preferences** page that, when run, sets all options to their default values and clears any session errors.
MPS-26056	Fixed an issue that could cause **The wait operation timed out** errors when sending documents to Meridian Portal.
MPS-26183 MPS-26184	Once you have scanned an import package, the **Documents** list shows the **Skipped Reason** for each document that could not be imported. You can now filter the list to show only those that have metadata validation errors. If you download and open the metadata spreadsheet in Microsoft Excel, you can also filter the list based on Validation Status.
MPS-26207	Fixed an issue that could cause sending large PDF documents to Meridian Portal to fail.
MPS-26333	Fixed an issue that could cause **A document or folder with this name already exists** errors when an image is converted to a hybrid drawing, then moved to a different folder, and then moved back to its original folder.
MPS-26644	In MeridianPowerWeb, when you link a folder to a new Meridian Portal project, the **Project Number** and **Project Name** fields on the **New Meridian Portal Project** dialog box are automatically filled with the folder name.
MPS-26825	When you send a document to a contractor via Meridian Portal, that document can now be automatically acknowledged, accepted, and returned to the Meridian vault instead of requiring manual actions.
MPS-26769	The **Create New Version** command, which performed the same action as **Replace Document**, has been removed.
MPS-26847	Fixed an issue that could prevent corrupted AutoCAD drawings from logging errors when content searches fail.

Reference	Description
MPS-26872	Fixed an issue that prevented changing the reference type restriction of an existing dynamic collection.
MPS-26939	In PowerUser, a script error no longer occurs when changing the state of a document on a Workflow transition that uses a script.
MPS-26980	When you start a workflow transition on a batch of documents in PowerWeb, the title bar of the dialog box that opens now shows the name of the document that is being edited.
MPS-27315	A synchronization error no longer occurs when: 1. A new document is created in Meridian Portal. 2. The new document is sent to Meridian Explorer. 3. A new change is started on the document in Meridian Explorer. 4. The document is sent to Meridian Portal for revision. Previously, this was resolved by running the Explorer Sync job before sending the document to Meridian Portal.
MPS-27391	We've made performance improvements so that when one cache server is unavailable, performance for all users is not degraded. When using HTTPS, it is now mandatory to install the site cache server certificate on the Meridian Enterprise Server machine otherwise the server is marked as invalid and an error is shown in the BC Application Events.
MPS-27571 MPS-28097 MPS-28851 MPS-28852 MPS-28873	Minor UI improvements.
MPS-28160	Fixed an issue that could cause packages to fail to be sent to Portal if the repository synchronization job configuration specified the vault name in FQDN format.
MPS-28243	Fixed an issue that could cause the **Select User** dialog box to appear with an empty user list in a specific environment configuration.
MPS-28271	Fixed an issue that could cause the workflow state to be changed only for the first 30 documents in a batch when the batch was rerouted a different state.
MPS-28420	Fixed an issue that could cause only the first document in a batch to be sent to Portal when the batch is routed to a custom workflow state.

Configuration Improvements

The following improvements have been made to the configuration of Meridian Enterprise. For more information about these improvements, see the articles referenced in the descriptions below.

Configuration improvements

Reference	Description
MPS-17175	A new option **This expression must return an empty string** has been added to the **Validation** tab of custom property configurations as described in *Restrict User Input* in the *Meridian Enterprise Configuration Guide*.
MPS-23639	When a file name is calculated from a document type, it is no longer truncated after the last period (.) before the file extension. For example, if aaa.bbb.1000.jpg is calculated, that is used for the file name instead of truncating it to aaa.bbb.jpg.
MPS-23688	A new column collection named **Set Property Value** has been added to the **Environment** branch in Meridian Configurator as described in *Configure column layouts* in the *Meridian Enterprise Configuration Guide*. This collection is intended to restrict the properties that users may select for the **Set Property Value** command described in *Set a property value* in the *Meridian Enterprise User's Guide*. **Note:** The vault must be upgraded as described in *Upgrade Meridian vaults* in the *Meridian Enterprise Administrator's Guide* to make this collection available. The **Available columns** list will also contain document properties.
MPS-23689 MPS-23690 MPS-25700	A new privilege named **Advanced Set Property Value** has been added as described in *Security Privilege Descriptions* in the *Meridian Enterprise Configuration Guide*. It can be used to restrict the users that may select from all defined properties when using the **Set Property Value** command and to disable validation rules per property as described in *Set a property value* in the *Meridian Enterprise User's Guide*. The audit log now includes the old value of the property.
MPS-24009 MPS-26342 MPS-28098	The **Send to Meridian Portal for revision** check box has been added to the **Workflow Definition State** options as described in *Create And Edit States* in the *Meridian Enterprise Configuration Guide*. When selected and a user transitions to that workflow state, the usual pane that allows the user to select to-do persons is replaced with a pane that allows them to select the Meridian Portal users who are to receive the documents.

Reference	Description
MPS-24725	A new column collection named **Folder Search Result Columns** has been added to the **Environment** branch in Meridian Configurator as described in *Configure column layouts* in the *Meridian Enterprise Configuration Guide*. This collection specifies the properties that users may select as search criteria in folder searches and the columns that are shown in the search results. **Note:** The vault must be upgraded as described in *Upgrade Meridian vaults* in the *Meridian Enterprise Administrator's Guide* to make this collection available. The **Available columns** list will also contain document properties.
MPS-19671 MPS-25770 MPS-25771	A new option **Unlock all project documents from local workspace** has been added to project workflow configurations as described in *Configure Transition Document Control* in the *Meridian Enterprise Configuration Guide*.
MPS-26602	A new option **Document imported from Portal** has been added to email notification event configuration.
MPS-26603	A user group may now be configured to receive email notifications when an import package fails as described in *Create an Import Profile* in the *Meridian Enterprise Server Administrator's Guide*.
MPS-27299	Fixed an issue that could cause user names to be shown in an incorrect format on custom property pages.
MPS-28046	Fixed an issue that could cause lookup list fields to appear with incorrect widths in edit mode when the **DataList** registry value is set to 1. This registry value is documented in the *HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\WebLink\UserPreferences\Default* article in the *Registry Keys* section of the *Meridian Enterprise Administrator's Guide*.
MPS-28258	Fixed an issue with a particular revision number configuration that could cause the revision number of a project copy to be reused for subsequent project copies.
MPS-28453	Fixed an issue that could cause custom multi-line messages to not be shown correctly when a custom workflow transition authentication expression does not return True.

Customization Improvements

The following improvements have been made to the Meridian Enterprise customization features (VBScript). For more information about these improvements, see the articles referenced in the descriptions below.

Customization improvements

Reference	Description
MPS-211	The performance of the **GetUsersWithRole** method has been significantly improved. This method is documented in the *Folder Object Methods* article in the *Meridian Enterprise VBScript API Reference Guide*.
MPS-335 MPS-27696	The **GoTo** method is now supported by PowerWeb. This method is documented in the *Client Object* article in the *Meridian Enterprise VBScript API Reference Guide*.
MPS-17171 MPS-17176 MPS-25724 MPS-25725 MPS-25728 MPS-25736 MPS-26406 MPS-26971	The **Batch** object has been extended with a new property and methods that provide alternatives to WinMsgBox and WinInputBox, which are not supported by PowerWeb. These extensions can be used to implement custom confirmation dialogs for workflow transitions in the new **DocCWFEvent_ PreInitializeExecuteTransition** and **DocCWFEvent_PreBeforeExecuteTransition** events and existing events described in *DocCWFEvent_ *ExecuteTransition Events* section of the *Workflow Definition Events* article in the *Meridian Enterprise VBScript API Reference Guide*. A new property **ConfirmationTitle** is available as well as new methods **AskInput**, **AskConfirmation**, **Confirmation**, and **ShowInfo** as described in *Batch Object* in the *Meridian Enterprise VBScript API Reference Guide*. Several data types as well as the **Memo** type are supported for user input.
MPS-17211	Fixed an issue that could prevent a property override expression from being calculated for every document in a batch during a workflow transition.
MPS-22345	A new **ForgeURL** property and **ChangeForgeURL** method have been added to the **Document** object in the VBScript API. This property and method are documented in the *Document Object* section of the *Meridian Enterprise VBScript API Reference Guide*.
MPS-26849	The **IsChangedByPortal** property has been added to the **Document** object in the VBScript API. This property is documented in the *Document Object* section of the *Meridian Enterprise VBScript API Reference Guide*.
MPS-27326 MPS-27327	We've added these in the VBScript API for PowerWeb to allow you to determine the document types that are configured for the current scope: • **DocumentTypes** property to the Scope object, documented in the *Scope Object* section of the *Meridian Enterprise VBScript API Reference Guide* • **DocGenericEvent_BeforeSelectDocType** event, documented in the *Document Generic Events* section of the *Meridian Enterprise VBScript API Reference Guide*
MPS-27981	Fixed an issue with the **GetUsersWithRole** method of the Folder object that caused it to return all users regardless of their role membership when invoked by the rescue account.

Viewer Improvements

The following improvements have been made to the Meridian Enterprise viewer. For more information about these improvements, see the articles referenced in the descriptions below.

Viewer improvements

Reference	Description
MPS-22105 MPS-22108	Autodesk Forge is now supported for viewing AutoCAD, Autodesk Inventor, Autodesk Revit, and SolidWorks drawings.
MPS-25196	Fixed an issue that could prevent annotations from being saved for a user with extended characters in their full name.
MPS-25446	Fixed an issue that could prevent the viewer from loading documents from a site cache after the first document is viewed in a session.
MPS-26137	Fixed an issue that could cause a manually attached rendition to appear for all prior revisions of the document. The issue does not occur for automatically generated renditions.
MPS-27100	The default zoom level of the PDFtron viewer is now the full page.
MPS-28549	Fixed an issue that could cause the source document to be shown instead of its rendition when opened from a full-screen property window.
MPS-29308	The rendition tab is now shown for 3D models if the Autodesk Forge configuration is invalid.
MPS-29794	The Autodesk Forge Rendering Module now supports IFC (Industry Foundation Classes) and DGN (Bentley MicroStation) formats.
MPS-29795	The default value for the **LargeViewFileSizeToWarnInKb** setting, which determines the threshold before displaying a warning about Forge rendition file size has been increased to 51200 KB as described in *Customize the user interface* in the *Meridian Enterprise Server Administrator's Guide*.
MPS-29798	These unsupported file formats were removed from the Autodesk Forge Rendering Module: • slddrw: • rfa: • drw:

Explorer Improvements

We made these improvements to Meridian Explorer. For more information about these improvements, see the articles referenced in the descriptions below.

What's new in 2020 R2

Reference	Description
MPS-19674	The security of Meridian Explorer has been improved.
MPS-21700	The Download command has been divided into separate **Download (to LWS)** and **Download Rendition (to LWS)** commands.
MPS-25911	Fixed an issue that could cause the wrong watermark to be shown in **Print Preview** mode.
MPS-25286	Fixed an issue that could cause **Access denied** errors when attempting to view a prior revision with PDFTron configured as the viewer.
MPS-25267	Fixed an issue that could cause documents to stop being shown in the viewer after deleting redlines and refreshing the page.
MPS-26118	Fixed an issue that could cause the error **Invalid XOD file: Zip end header is wrong size!** when viewing a superseded revision of a document.
MPS-26185	We have added the **Stop on validation error** option to the **SCAN OPTIONS** group in the **Miscellaneous** page that appears when you create an import profile. If the **Do not import package if property validation failed** check box is selected, when you scan the import package and there are validation errors, that import package cannot be imported and an error message is shown in the **Status** field.
MPS-28178	Fixed performance issues with multiple site caches.
MPS-28602	By default, synchronization between Meridian Explorer repositories and their Meridian Enterprise source vaults, is now done in batches of documents as described in *Configure the application options* in the *Meridian Enterprise Server Administrator's Guide*. **Pre-2017 sync mode** is not supported.
MPS-29329	Fixed an issue that could cause searches to return incomplete results due to timeout errors .
MPS-29863	If a file is submitted to Forge and converted, you can now view it from Meridian Explorer. The **Open in Forge** button allows you to view the document in Forge Viewer in a new browser tab as described in the *Third Party Viewers* section of the *Supported Software* document for this release. If the rendition is already in Forge, you can change the URL of the Forge Viewer for that document as described for the **ChangeForgeURL** method in the *Meridian Enterprise VBScript API Reference Guide*.

Publisher Improvements

We made these updates to Publisher. For more information about these improvements, see the articles referenced in the descriptions below.

What's new in 2020 R2

Reference	Description
MPS-19574	A new option **Enable layer support** has been added to the Acme CAD Converter rendering module as described in *Configure the Acme CAD Converter Rendering Module* in the *Meridian Enterprise Server Administrator's Guide*.
MPS-22424 MPS-24117	The Autodesk Forge Rendering Module is available for rendering AutoCAD, Autodesk Inventor, Autodesk Revit, and SolidWorks drawings as described in *Autodesk Forge Rendering Module* in the *Meridian Enterprise Server Administrator's Guide*.
MPS-19942 MPS-25766 MPS-27000	A new job template **Synchronize Content** has been added as described in the *Publishing Jobs* and *Configure Content Synchronization Options* sections of the *Meridian Enterprise Server Administrator's Guide*. The job can be used to automatically synchronize properties and references from documents.
MPS-24991	Fixed an issue that could prevent source files from being published when the **Publish the source document** option is enabled for jobs with SharePoint and file system destinations.
MPS-25363	Fixed an issue that could cause **No storage available. ; The system cannot find the path specified** errors when updating renditions.
MPS-25373	A new rendering option **Disable XOD generation** has been added to publishing jobs as described in *Configure Rendering Options* in the *Meridian Enterprise Server Administrator's Guide*.
MPS-25767 MPS-26873	A new job type **Synchronize Content** has been added that can be used to synchronize document properties and references as described in *Configure Content Synchronization Options* in the *Meridian Enterprise Server Administrator's Guide*.
MPS-27614	Fixed an issue that could cause sending a package to Meridian Portal to fail if a repository synchronization job is already running at the same time. The package transfer will now wait until the synchronization job has finished.
MPS-28946	Fixed an issue that could cause assets synchronized from Maintenance Connection to be deleted when a sync validation job is run.
MPS-28662	Minor UI improvements.

2020 Release Notes

Meridian Enterprise 2020 was released in January 2020. The major themes of this release are:

- Integration with Meridian Portal
- PowerWeb functionality
- Third-party component updates
- Numerous quality, stability, usability, scalability, and performance improvements

The following sections describe the specific changes and improvements in this release. Additional minor enhancements, third-party application support, and bug fixes are also included.

Administration Improvements

The following improvements have been made to the administration of Meridian Enterprise. For more information about these improvements, see the articles referenced in the descriptions below.

Administration improvements

Reference	Description
MPS-16871	Fixed an issue that could cause a vault to remain open after the EDM Server service was manually stopped during a long running process.
MPS-16886	When an empty Active Directory group is synchronized with Meridian Enterprise Server, the Meridian group will now be emptied also. Previously, the group was unchanged.
MPS-18173	Packages to be sent to Meridian Portal no longer need to wait to be sent for unsynchronized document revisions to be synchronized to the Meridian Explorer repository by a scheduled publishing job. The first synchronization job defined for a vault will now be run automatically if an existing document or one of its references is unsynchronized. New documents that have never been synchronized must still wait until they are synchronized.
MPS-18655	Fixed an issue that could cause repository synchronization jobs to fail that contain renamed folders.
MPS-19244	The Vault Consistency Wizard log now includes column names for item data to help interpret the results.
MPS-20260	The Meridian Cloud Connector installation package now no longer shows options that are not used in remote or cloud environments.

Reference	Description
MPS-20571 MPS-23019	This release includes ODA Platform 2020 Update 1 (Teigha) components.
MPS-20806	The Meridian Cloud Connector installation package now includes the same application links as the full client installation package.
MPS-20949	The **Package can be returned** option has been removed from publishing job definitions. It is replaced with the new **Send to Portal** option that is available when packages are created as described in *Send documents to Meridian Portal* in the *Meridian Enterprise User's Guide*.
MPS-21001	The SAMLConfigurator tool no longer saves URLs with trailing slash characters, which can lead to authentication errors.
MPS-21161	Fixed an issue that prevented some text in the installation packages from appearing in the user's selected language.
MPS-21305	A new client registry value **ExcludeCertificates** has been added as described in the *HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\Client* article in the *Registry Keys* section of the *Meridian Enterprise Administrator's Guide*. When set to 1, it prevents the names of certificates from appearing in the **User Name** list when electronically signing documents in PowerWeb with the **ActiveX compatibility mode** option enabled and a security policy is configured to use a certificate and PIN.
MPS-21310	Fixed an issue that could cause the error **Index and length must refer to a location within the string** and prevent entering license numbers in Meridian Enterprise Administrator with the Chinese language configured.
MPS-21462	A new option **Meridian Portal** has been added to the Meridian Enterprise Server connectivity settings to set the domain in which the tenancy resides as described in *View and edit the connectivity settings* in the *Meridian Enterprise Server Administrator's Guide*.
MPS-21628	Fixed an issue that could cause repository synchronization jobs to fail that contained renditions larger than 2 GB.
MPS-21670	The default data of the **CollectExisting** registry value has been changed to **0** (off) as described in the *HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\WebLink\Published Locations\<ID>* article in the *Registry Keys* section of the *Meridian Enterprise Administrator's Guide*.
MPS-21763	Fixed an issue that could cause repository synchronization jobs to fail that contained hybrid documents with parts larger than 2 GB.
MPS-21913	Fixed an issue that could cause PowerWeb to stop working during an operation when the application pool on the Meridian web server is reset at the same time.

Reference	Description
MPS-22120	The Meridian Cloud Connector client now supports Active Directory authentication and configurable installation options so that it can be used for on-premises deployments. For more information about the benefits, see Meridian Cloud Connector.
MPS-22206	Documents imported from Meridian Portal with the issue reason of **For Handover** are now released instead of routed to the **Quick Change** state and assigned to the **BC_MeridianService** account.
MPS-22215	Fixed an issue that could cause the error **Cannot insert duplicate key row in object 'dbo.Folder' with unique index 'IX_Folder_Name'** when a synchronization job is run after an already synchronized folder is deleted and then recreated.
MPS-22265	Fixed an issue that could cause the Meridian Portal tenancy name to appear incorrectly for imported packages.
MPS-22292	Documents in a workflow with the status of **Update** may now be imported from Meridian Portal packages.
MPS-22352	Fixed an issue that could cause the error **The application called an interface that was marshalled for a different thread** when opening Meridian applications after installing Windows Updates that include .NET Framework 4.8.
MPS-22583	Fixed an issue that could cause publishing jobs with the Windows file system as the destination to require a Meridian Explorer Standard (M--EXC) client license even though a Meridian Explorer Plus (M--EXP) license is available and should be used.
MPS-22726	Fixed an issue In PowerUser and in PowerWeb with **ActiveX compatibility mode** enabled that could allow users unlimited authentication attempts when the **Logon retries** option is set to **0** (no retries).
MPS-22839	Import packages may now be imported to destination project folders by using the **Project number property** and **Destination folder** options described in *Manage a Meridian Enterprise vault* in the *Meridian Enterprise Server Administrator's Guide* with metadata described in Import with packages.
MPS-22913	Fixed an issue that could allow users to continue to access a vault after failing to authenticate within the configured number of retries when a site cache is used.
MPS-23100	Fixed an issue in the `AMRep.exe` tool that could report incorrect operating system version numbers.
MPS-23393	TLS 1.2 is now supported by all Meridian applications by default for compatibility with SAML authentication.
MPS-23537	Fixed an issue that could cause a **User...is locked or not identified as a valid user** error when a new user logs in via PowerWeb instead of adding the user to the system as in PowerUser.

Reference	Description
MPS-23817	Fixed an issue that could cause an error when running the `iconlsver` tool to reindex a restored vault.
MPS-23989	The **DataList** PowerWeb profile setting described in *Deploy standard preferences* in the *Meridian Enterprise User's Guide* can now be set in the web server registry setting as described in *HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\WebLink\UserPreferences\Default* article in the *Registry Keys* section of the *Meridian Enterprise Administrator's Guide*.
MPS-24001	Microsoft .NET Framework 4.7.1 or higher is now required for server and client deployments. The installation packages will check for its installation and stop if it is not found.
MPS-24709	**Important!** When this release is installed as an upgrade to an existing installation, the Meridian Enterprise Server `web.config` file is reset to its default settings. This disables HTTPS security mode and makes publishing jobs unavailable. To enable HTTPS, see *Configure HTTPS* in the *Meridian Enterprise Server Administrator's Guide*.
MPS-24766	Fixed an issue that could cause an error when attempting to delete a document in the root of a vault with site cache connected.
MPS-24769	Attempting to save an import profile after mapping a property to an expression that fetches a Meridian Portal property value will cause the error **The current expression has errors. Do you want to save it anyway?** Proceeding to save the mapping will cause errors when documents are scanned during import and the property will not be set as expected. This issue is expected to be fixed in a future release.
MPS-24994	The Tag Synchronizer and Tag Link Synchronizer tools have been improved to import asset tags to a Meridian Cloud tenancy as described in the *Configure Tag Synchronizer* and *Configure Tag Link Synchronizer* articles in the *Meridian Enterprise Configuration Guide*.
MPS-25089	Fixed an issue that could cause an error when attempting to enter license information in Meridian Enterprise Server with the Chinese language installed.

Application Link Improvements

The following application link improvements have been made. For more information about these improvements, see the articles referenced in the descriptions below.

Application link improvements

Reference	Description
MPS-19114	Fixed an issue that could cause MicroStation v8i to crash when attaching external references.
MPS-19436	The CAD application links now support updating title blocks with script functions in Remote mode.
MPS-19627	The AutoCAD link now creates references between AutoCAD drawings and Inventor models inserted with the VIEWBASE command as described in *Inventor models* in the *Meridian Enterprise User's Guide*.
MPS-20261	In the MicroStation link, stability and performance have been improved.
MPS-20684	Fixed an issue that could prevent documents in a shared workspace accessed in Remote mode from a mapped drive from being recognized as being managed by Meridian.
MPS-21373	In the MicroStation link, the performance of synchronizing tag hotspots from MicroStation drawings has been improved.
MPS-21528	In the MicroStation link, references created with absolute paths are no longer converted to relative paths.
MPS-22223	In the AutoCAD link, fixed an issue that could cause Internet Information Server to stop working if multiple users import documents with title block synchronization enabled.
MPS-22285	In the Revit link, fixed an issue that could cause **Current document is opened as read-only** errors when trying to work on documents in a shared workspace in Remote mode with a site cache connected.
MPS-22353	Fixed an issue that could cause AutoCAD title block synchronization to fail in Remote mode.
MPS-23057	A new setting **DisableCircularRef** has been added to the **TAGEXTRACTION** section of the AutoCAD link settings in a vault configuration as described in *Configure the AutoCAD link* in the *Meridian Enterprise Configuration Guide*. If set to 1, warning messages about circular reference creation are suppressed.
MPS-23064	The SolidWorks application link now supports SolidWorks 2020.
MPS-24629	In the MicroStation link, a new client registry setting named **ButtonsForAll** has been added as described in *HKEY_CURRENT_USER\Software\Cyco\AutoManager Meridian\CurrentVersion\MicroStationLink* article in the *Registry Keys* section of the *Meridian Enterprise Administrator's Guide*.

Client Improvements

The following improvements have been made to the PowerWeb client application unless otherwise noted. For more information about these improvements, see the articles referenced in the descriptions below.

Client improvements

Reference	Description
MPS-165	Fixed an issue that could prevent the workflow **Status** property of a document from updating after running the **Start Change**, **Revoke Documents**, or **Approve Documents** commands after changing a lookup property on a custom page.
MPS-376	Canceling a **Copy with References** or **Derive with References** operation now gives the user the choice to revoke any copies made up to that point.
MPS-144	Fixed an issue that could cause an error when linking a project to an empty Meridian Portal repository.
MPS-432	When opening a document using Application Integration from within an application, users can now select any valid workflow transition similar to what is described in *Open a document from within Meridian* in the *Meridian Enterprise User's Guide*.
MPS-14689	When the **ActiveX compatibility mode** option is enabled as described in *Set personal preferences* and a site cache is connected as described in *Configure a site cache connection* and the **Unlock document** command (*Lock and unlock documents*) is run, the error **Document...is locked by...** can occur and the document is not unlocked. To prevent this error and succesfully unlock a document, temporarily disable **ActiveX compatibility mode**, unlock the document and re-enable the option. This issue is expected to be resolved in a future release. All topics referenced for this ticket can be found in the *Meridian Enterprise User's Guide*.
MPS-16129	Fixed an issue that could cause **Object not found** errors when attempting to revoke a newly imported document .
MPS-16796	New commands **Download to Folder** and **Download Renditions to Folder** have been added to allow easy downloading of documents to a specific folder (other than the local workspace folder) as described in the *Download documents* and *Download renditions* articles in the *Meridian Enterprise User's Guide*.
MPS-17141	Fixed an issue that could cause the **Rendition updated** property to not appear in the correct color unless the mouse cursor is hovered over the field.
MPS-17400	Fixed an issue that could cause files for deleted documents to appear in folders copied out of the vault.

Reference	Description
MPS-17795	Fixed an issue that could cause thumbnail generation to fail with the **ICViewPlugIn** viewer is active.
MPS-18521	Minor UI text improvements.
MPS-18600	General usability and visibility for users with color vision deficiency has been improved in the workflow diagram window.
MPS-19073	Fixed an issue that could cause **Object not found** errors when attempting to view a document when the site cache server is deployed separately from Meridian Enterprise Server.
MPS-19189 MPS-22585	Fixed an issue that could cause excessive memory consumption and sub-optimal performance by the Meridian application server when folders are expanded that contain >1000 items.
MPS-19203 MPS-20584	The package names on the **Export Packages** property page are now hyperlinks that, when clicked, open the package in Meridian Explorer where its contents can be viewed and if desired, opened in Meridian Portal for collaboration with external contractors.
MPS-19308	Fixed an issue that could cause the current revision to appear in the viewer when a user clicked the thumbnail of a prior revision in the list of revisions as described in *View prior revisions* in the *Meridian Enterprise User's Guide*.
MPS-19710	Fixed an issue that could errors when a site cache is connected and downloading documents with fully qualified paths longer than 260 characters.
MPS-19964 MPS-22707	The stability of user sessions under stressful conditions has been improved.
MPS-20073	Documents sent to Meridian Portal in a package for modification while they were in a workflow are now automatically imported back into the vault when they are returned from Meridian Portal. The **To-Do Person** value is restored to the user that was assigned at the time that the documents were sent. Previously, the package had to be imported manually. However, the documents are not automatically released from their workflow even if the **Workflow state** option is set to **Released** in the import profile.
MPS-20301	A new command **Open Document** has been added to the **Assembly** ribbon menu to make it easier to download an assembly or part from the Assembly Browser and to open it in its registered application.
MPS-20520	A new folder command **Unlink From Meridian Portal** has been added as described in *Link folders to Meridian Portal* in the *Meridian Enterprise User's Guide*.
MPS-20582	When a package is sent to Meridian Portal and later retracted, the documents are now automatically unlocked in the Meridian vault.

Reference	Description
MPS-20635	The usability of the **Send to Meridian Portal** dialog box has been improved.
MPS-20932	Documents may now be sent to Meridian Portal with the **Issue Reason** of **For Information** as described in *Send documents to Meridian Portal* in the *Meridian Enterprise User's Guide*.
MPS-20949	A new **Send to Portal** option is available when packages are created as described in *Send documents to Meridian Portal* in the *Meridian Enterprise User's Guide*.
MPS-21234	Batches of renditions may now be printed as described in *Print documents* in the *Meridian Enterprise User's Guide*.
MPS-21254	Fixed an issue that could prevent virtual tags from appearing for project copies without at least one literal tag reference.
MPS-21274 MPS-24131	Fixed an issue that could cause outgoing tag references from appearing in reference explorer dialogs shown in PowerWeb and in PowerUser. **Note:** All customers with release 2019 or 2019 R2 who upgrade to 2020 and who use document to tag references must set (or reset) and save at least one option in the reference definition (as described in *Create and edit reference types* in the *Meridian Enterprise Configuration Guide*) to prevent those references from failing to appear in the assembly browser dialogs.
MPS-21350	Fixed an issue that, when using a document property page to navigate to a different document in a different scope, changed the current scope.
MPS-21530 MPS-21834	A new clipboard feature has been added to make moving and copying items easier. New commands **Cut to Clipboard**, **Copy to Clipboard**, and **Paste from Clipboard** have been added as described in *Meridian clipboard* in the *Meridian Enterprise User's Guide*.
MPS-21712	When a user has a document selected and the page is refreshed because the user changed navigation views or selects a different document, the navigation tree automatically scrolls to make the selected document visible.
MPS-21973	Fixed a bug that could cause focus to jump to the root folder of the vault when a document is opened but the active focus is on a folder other than the folder where the opened document will be released to.
MPS-21996	Fixed an issue that could cause PowerWeb to stop working during an import.
MPS-22066	A new option **Include transmittal in report** has been added to the **Generate Transmittal Sheet** dialog box that, if enabled (the default is disabled), causes the transmittal report itself to appear as a row in the report as proof that it was included in the briefcase.
MPS-22088	Fixed an issue that could cause focus to jump to the root folder of the vault when a folder is deleted instead of to the parent of the deleted folder.

Reference	Description
MPS-22309	Fixed an issue that could cause a custom workflow transition to be assigned to the wrong user.
MPS-22343	Fixed an issue that could prevent shared workspace files from being removed after they were deleted from the vault with a site cache connected.
MPS-22723	The Meridian Cloud Connector installation package now includes the AutoCAD, Autodesk Inventor, Autodesk Revit, MicroStation, Solidworks, and MS Office application links.
MPS-22803	Fixed an issue that could cause only the first document in a selection to be added to an export package and the rest to fail with the error **Invalid pointer**.
MPS-23410	Fixed an issue that could cause sending of packages to fail due to long project names.
MPS-23501	A new option **Include objects** has been added to the **Create Project Copy** dialog. When enabled, asset tags are also shown and can be included in the copy operation if permitted by the reference type.
MPS-23537	Fixed an issue that could prevent new users from logging on with PowerWeb to create their account. They will now only receive the **User...is locked or not identified as a valid user error** message if their account is actually locked.
MPS-23549	The error message has been improved that is shown when a user's session times out during a lengthy operation such as importing documents.
MPS-23600	Fixed an issue that prevented the **Create Project Copy with Lock** command from appearing in the ribbon menu if the **Copy Project Copy** command is disabled in the current scope.
MPS-23706	Clipboard cut and copy operations are now logged to the audit trail.
MPS-24287	Fixed an issue that could prevent asset tags from being processed correctly for project copy operations on linked documents. **Note:** All customers who upgrade to 2020 and who use document to tag references must resave (click **Edit** and then click **OK**) the options on the **AMM Settings** page of the vault configuration (as described in *Configure the document to tag relationships* in the *Meridian Enterprise Configuration Guide*) to avoid this issue.
MPS-24361	Fixed an issue that could cause duplicate files to be created in the local workspace in remote mode when saving a document in the vault with a type that calculates the file name.
MPS-24554	Fixed an issue that could cause **Execution Timeout Expired** errors when opening large audit logs.

Reference	Description
MPS-24642	Fixed an issue that could cause the **Select Folder** dialog to be empty when a newly imported document in a project folder is released as a new master document with a scope active that has a root folder set for it.
MPS-24675	Fixed an issue that could cause custom commands that are run on a batch of folders and documents to generate errors for the folders even if the **Execute recursively if applied to folders** option of the custom command is disabled as described in *Create and edit custom commands* in the *Meridian Enterprise Configuration Guide*.
MPS-24797	Fixed an issue that could cause errors when attempting to open in its native application a hybrid part that is attached to a main document with a file size of 0.
MPS-24959	Fixed an issue that could cause an incorrect revision information to be shown for a previous revision of a document in PowerWeb.
MPS-25006	Fixed an issue that could cause repository synchronization jobs to fail for vaults with more than 1000 asset tag types.
MPS-25026	Fixed an issue that could cause errors when updating a rendition is attempted for a document under change for which its rendition has been deleted and the rendition update job has a prior revision type watermark profile assigned.

Configuration Improvements

The following improvements have been made to the configuration of Meridian Enterprise. For more information about these improvements, see the articles referenced in the descriptions below.

Configuration improvements

Reference	Description
MPS-17592	A new option **Execute recursively for referenced documents** has been added to custom commands as described in *Create and edit custom commands* in the *Meridian Enterprise Configuration Guide*. If enabled (default), the command will be run on each child reference of the selected document.
MPS-19391	Fixed an issue with particular properties not being included when the vault configuration is exported to a MET file.
MPS-20924	Fixed an issue that could cause the error **The required property...does not exist for the current view**. It is no longer possible to remove required properties from a navigation view.
MPS-21429	Fixed an issue that could cause false **unknown error -2147352319** messages when entering a configuration expression.

Reference	Description
MPS-22128	A new option **Secure PDF** has been added to rendition watermark profiles as described in *Configure rendition watermarks* in the *Meridian Enterprise Server Administrator's Guide*. If enabled, the option assigns a randomly generated password to the rendition watermarks to prevent tampering.
MPS-22308	New options have been added to reference type definitions as described in *Create and edit reference types* in the *Meridian Enterprise Configuration Guide*.
MPS-22347	A new format named **Master/Project Copy** has been added to the **Revision number** option as described in *Configure document revision numbers* in the *Meridian Enterprise Configuration Guide*.
MPS-24676	Fixed an issue that caused documents to not import if the source of a property mapping was an expression.

Customization Improvements

The following improvements have been made to the Meridian Enterprise customization features (VBScript and .NET API). For more information about these improvements, see the articles referenced in the descriptions below.

Customization improvements

Reference	Description
MPS-19032	Fixed an issue that could cause the **ProjectWorkflowEvent_PrepareBrowser** event to ignore the **RootFolder** argument.
MPS-20349	Fixed an issue that could cause **Client.Argument** to return 0 for strings over 255 characters long in PowerUser.
MPS-21430	Fixed an issue that could cause the **Vault.User.HasRole** property to return an incorrect value.
MPS-22131	Fixed an issue that could cause the returned value from **Vault.FindDocument** to not include the newly created document when executed in the **OnProperties** event during document creation.
MPS-23961	Fixed an issue that could prevent results from appearing for dynamic scopes as described in *Vault Events* in the *Meridian Enterprise VBScript API Reference Guide*.
MPS-24054	Fixed an issue that could cause an outdated version of a rendition to be shown after the source document has been updated by the **AddRendition** method. To learn more about the **AddRendition** method, see the *Document Object Methods* article in the *Meridian Enterprise VBScript API Reference Guide*.

Viewer Improvements

The following improvements have been made to the Meridian Enterprise viewer. For more information about these improvements, see the articles referenced in the descriptions below.

Viewer improvements

Reference	Description
MPS-136	Fixed an issue in the AutoVue Setup For Meridian installation package that prevented the viewer from filtering files correctly.
MPS-466 MPS-22606	Source documents in PDF format that do not have a corresponding rendition are now shown with PDFTron by default.
MPS-16878	The PDFTron viewer now supports marquee zoom when comparing documents.
MPS-17429	Added a new option **Embed Acrobat viewer into Web Browser control** for the Acrobat viewer that, when enabled, opens URL hyperlinks in a new browser tab.
MPS-17840	Fixed an issue that could prevent renditions from being shown with Acrobat Reader when a site cache is connected and the **UsePDFTron** registry value is set to **0** as described in the *HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\WebLink* article in the *Registry Keys* section of the *Meridian Enterprise Administrator's Guide*.
MPS-21304	Fixed an issue in PowerUser that could cause the **Search** pane from appearing when a document is opened in Adobe Reader.
MPS-21835	Fixed an issue with some changes not being detected when comparing renditions.
MPS-21632	Fixed an issue with printing the differences between two revisions.
MPS-22263	Fixed an issue that could cause the remaining hotspots to not appear after removal of a manually created hotspot.
MPS-22301 MPS-23547	Fixed an issue that could cause some documents to fail to load in PDFTron.
MPS-22077 MPS-22820	Fixed an issue that could prevent annotations from being saved for very large PDF files.
MPS-22605	Source PDF documents and their revisions may now be compared using PDFTron.
MPS-23591	Fixed an issue that could prevent a confirmation dialog from appearing when a user has unsaved annotations made by PDFTron in an undocked window and they close that window or change focus to another document.

Reference	Description
MPS-23616	In PowerWeb, if the **View renditions** option is disabled as described in *Set personal preferences* in the *Meridian Enterprise User's Guide* and a source document in PDF format is selected, it cannot be viewed with PDFTron in Google Chrome or Microsoft Edge. The workaround is to download the document and view it in Adobe Reader or a similar viewer. This issue is expected to be resolved in a future release.
MPS-23848	Fixed an issue that could cause an undocked AutoVue window to crash Internet Explorer 11 when the window is closed.
MPS-24040	Fixed an issue with the AutoVue 3D viewer that could produce random **Loading error. Turn verbosity ON and check log** errors when viewing a 3D model in an unsupported format.
MPS-24208	Attempting to print a rendition from PDFTron in full-screen view can cause **Out of memory** errors on Windows 8.1 in Internet Explorer 11.0.9600.19573 only. Repeating the command requires terminating the extra browser process with Task Manager.
MPS-24718	Fixed an issue that could cause a master document that has had its rendition manually updated by a project copy to show the outdated rendition in the viewer.

Explorer Improvements

We made these improvements to Meridian Explorer. For more information about these improvements, see the articles referenced in the descriptions below.

What's new in 2020

Reference	Description
MPS-16796	New commands **Download to Folder** and **Download Renditions to Folder** have been added to allow easy downloading of documents to a specific folder (other than the local workspace folder) as described in *Download files* in the *Meridian Explorer User's Guide*.
MPS-18011 MPS-21269	Fixed an issue that prevented DWG and DGN references in subfolders from being resolved when packages are imported.
MPS-20398	The home page now initially shows the lists of views collapsed for easier selection when many views are available.
MPS-20583	Fixed issues with the **Open In New Window** command that could cause property pages to not open or the same page to open repeatedly.
MPS-21235	Batch printing of renditions is now supported by the PDFTron viewer.

Reference	Description
MPS-21464	Fixed an issue that could cause **Document count is invalid** errors when attempting to download a document that is locked in an export package.
MPS-21529	Fixed an issue with the **Contents** page when downloading both content and the rendition of documents.
MPS-21607	Exporting metadata to Excel is no longer limited to 1000 items.
MPS-21831	Fixed an issue that could cause an error message to appear when creating an import package and the **Source folder** option is left blank.
MPS-21898	Fixed an issue with documents appearing in the wrong orientation in the **Draft Print** selection window when a non-English language is enabled.
MPS-22168	Fixed an issue that could cause moved references to not appear in the correct folder.
MPS-22246	Fixed an issue that prevented item names from not appearing completely in the **Recent Items** list on the home page.
MPS-24761	If a user removes all columns from a document list view, the grid header will disappear and the view can no longer be reconfigured. The user can now press and hold the Ctrl while clicking the document list to restore the hidden columns.
MPS-24793	Exporting a package now requires that a project name be selected to which to link the package as described in *Export a package* in the *Meridian Explorer User's Guide*.
MPS-24945	Creating a new export package by adding a document to a collection is no longer allowed. Packages may now only be created as described in *Create a package* in the *Meridian Explorer User's Guide*.
MPS-25037	Fixed an issue that could cause a blank page to appear when attempting to view a rendition in a new tab after already viewing the document on a property page.

Publisher Improvements

We made these updates to Publisher. For more information about these improvements, see the articles referenced in the descriptions below.

Reference	Description
MPS-19270	When publishing jobs of the type **Rendition** have the option **Publish existing renditions if they are up-to-date** enabled and the PDF file extension mapping is set to **Publish unrendered,** when the job runs, the **Rendition updated** property of the source document is now the date and time that the job ran instead of the rendition file modification date as before.
MPS-21798	Fixed an issue that could cause the prior revisions of a document to show the rendition of the latest revision.
MPS-21991	Fixed an issue in the AutoCAD rendering module that could cause errors when rendering with AutoCAD Architecture.
MPS-21224 MPS-22602	A new option **Label item as "Failed"** has been added to publishing and rendering jobs as described in *Configure rendering options* in the *Meridian Enterprise Server Administrator's Guide*.
MPS-22644	Fixed an issue in the AutoCAD rendering module that could cause **Cannot set plot settings to layout** errors when the **Use all values from layout** option is enabled but the plotter name in the layout is invalid.
MPS-23003	Fixed an issue in the AutoCAD rendering module that could cause the rendering options to not be reset to their default values between the rendering of multiple layouts in the same drawing.
MPS-23615	AutoCAD drawings with models inserted with the VIEWBASE command may fail to render with the AutoCAD rendering module and result in **AutoCAD generic error** messages in the publishing log. This issue was not able to be resolved in time to be included in this release. It is expected to be resolved in a future release.
MPS-23620	The **SOURCE DOCUMENTS** settings of **Export Package** type publishing jobs described in *Configure the publishing options* in the *Meridian Enterprise Server Administrator's Guide* have been removed from the Meridian Enterprise Server Administration Console user interface and are now set to default values for new jobs. Existing jobs that use non-default settings will retain their settings until the job configuration is edited, then the options will be set to the default values and you will be prompted to save those changes even if you did not make any changes manually.
MPS-24478	Both the source and rendition files of documents are now included in export packages by default and the final result is determined by the publishing job configuration.
MPS-24859	Some hyperlinks in renditions might not work. This issue is expected to be resolved in a future release.

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