MERIDIAN

ENTERPRISE RELEASE NOTES

2021

Contents

Introducing Meridian Enterprise 2021

Accruent Meridian Enterprise is the departmental to enterprise-wide engineering content management system from Accruent. It can be installed with the following database engines: Accruent Hypertrieve, Microsoft® SQL Server®, or Oracle® (see the *Supported Applications* list for your Meridian version available from your Accruent Certified Partner or the Accruent extranet). The number of vaults, documents, and concurrent users is limited only by available hardware resources on the host server computer.

Complete these tasks before you attempt to install Meridian Enterprise 2021:

- (Optional) Run the Vault Consistency Toolkit tools as described in the *Accruent Meridian Enterprise Administrator's Guide*. This will report the current condition of the vaults before they are upgraded. You might want to perform some repair or cleanup in advance.

- We highly recommend that before installing Meridian Enterprise 2021 on a production server that you perform a trial upgrade in an isolated test environment with copies of your vaults and your customization. This will allow you to identify potential problems and solve them in conjunction with Accruent before they pose a real problem in your production environment. Proceed to install on a production server only when you are sure that the upgrade process has the required result.

- Run the Prepare for Backup wizard followed by a complete backup of your system.

  Also make daily backups of all critical data. Store the backup in a safe location before making significant changes to the system. Whether you are upgrading the Meridian Enterprise software, updating some other system components, changing the vault configuration, or something seemingly insignificant like adding a navigation view, always make sure that you can revert back to the previous working configuration with as little effort and loss of productivity as possible.

What's In This Guide

This document contains important information about Accruent Meridian Enterprise 2021:

- Release history of supported Meridian Enterprise versions, including brief descriptions of the new features as well as the minor changes and improvements.

- Known problems that could not be resolved before this release and that remain in the product. These are typically minor issues that could potentially affect a very small number of customers and for which practical workarounds exist. These issues are often resolved in the next release.

For detailed information about Meridian Enterprise, review the following additional documents:

- *Accruent Meridian Enterprise Administrator's Guide* included with this release
- *Accruent Meridian Enterprise Configuration Guide* included with this release
- *Accruent Meridian Enterprise User's Guide* included with this release
- *Meridian Enterprise Supported Software* for version 2021 available in the Accruent Technical Library.

Who Should Read This Guide

This guide is intended for:

- Accruent Meridian Enterprise system administrators preparing to install or upgrade to this release or configure new features.
- Accruent Meridian Enterprise users who want to learn about the new features in this release.
- Accruent Solution Partners who want to learn about the new features in this release.

Typographic Conventions

The table below describes the typographic conventions used throughout this manual.

Typographic conventions

Convention	Example	Description
bold	**Edit**	Named user interface elements: menu items, button names, dialog box titles, dialog box options, icons, and so on.
italic	*Accruent Meridian Enterprise Administrator's Guide*	Names of other documents.
monospace	`Document.DisplayName`	Programming code, configuration file settings, and file system paths and folder names. Also user-defined code elements appearing in the narrative text.
`light gray background`	`Call WinMsgBox("Hello, world!")`	Programming examples that include sample data and are not intended to be used without modification.
bold	**Document.Log(Line)**	Named code elements: events, procedures, functions, objects, classes, methods, object properties, constants, and so on appearing in the narrative text except user-defined code elements. Variables and parameters appear in italic type.

Convention	Example	Description
italic	*local workspace*	Introduction of a new term and its definition. Many terms can also be found in the Glossary if one is included in the guide.
bold monospace	`regsvr32 /u`	Command-line commands and parameters.
default font	F5, Ctrl+O	Key names, combinations, and sequences.
italic	*<DocumentName>*	Placeholders
icons	**Note:** Supplemental info **Important!** Critical info	Related information that is not directly applicable to the adjacent text or might be useful under uncommon circumstances; supplemental, an aside. Information that, if not heeded, could result in lost data or accidents.
bold	**DisplayName**	Meridian Enterprise property names

Technical Support

Technical support for Accruent products is available from a variety of sources if you have an active support contract. Your first source of support is the authorized contacts designated by your company to participate in the support contract. They are the persons that are responsible for resolving problems with Accruent software before contacting outside sources of support. If your company works with a Accruent Partner, that partner is your second source of support. Accruent Partners are responsible for providing technical support to their customers in order to maintain their status as Accruent Partners. Accruent will assist the partner company, if necessary, to help resolve your problem. If your company is a direct Accruent customer, your authorized contacts may communicate directly with Accruent to resolve your problem.

Accruent Partners and direct customers have access to all of these Accruent technical support resources:

- [Support Cases](#) – around the clock support issue entry, update, and status
- [Meridian knowledge base](#) – continuously updated problem solutions, minor releases, updates, and how-to articles about advanced techniques
- Email notifications – immediate alerts to support issue status changes
- Telephone support – direct access to highly qualified software support engineers with extensive experience in Accruent products

The available support contract options, terms, and other details are described in documents that are available from your Accruent Partner.

Release History

Following are the release dates, database version numbers, and build numbers of each supported release of Meridian Enterprise:

Release history

Release	Date	Database Version	Meridian Enterprise Build	Meridian Enterprise Server Build
2020	February 17 2021	9.20	5380	9.30.5348
2020 R2	July 24 2020	9.20	5002	9.20.4982
2020	January 26, 2020	9.20	4630	9.20.4618
2019 R2	July 1, 2019	9.9	4462	4.0.462
2019	Mar 20, 2019	9.9	4315	4.0.315
2018 R2	July 6, 2018	9.9	4133	4.0.133
2018	February 15, 2018	9.9	4051	4.0.51
2017 SP1	June 30, 2017	9.8	3915c	3.9.15c
2017	March 1, 2017	9.8	3853a	3.8.53a

Release 2021

Meridian Enterprise 2021 was released in February, 2021.

The following topics comprise the release notes for Meridian Enterprise 2021.

What's New In Meridian Enterprise 2021

The major themes of the improvements to Meridian Enterprise 2021 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.

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

Administration Improvements

The following improvements have been made to the administration of Meridian Enterprise:

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.
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.
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.
MPS-29350	Modifying components in Meridian setup now works correctly.

Reference	Description
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
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.
MPS-31437	You can now configure a view to download a document with redlines.
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.

For more information, see *Accruent Meridian Enterprise Administrator's Guide.*

Application Link Improvements

The following application link improvements have been made:

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.
MPS-30505	SolidWorks 2021 is now supported.

Reference	Description
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.
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.

For more information, see *Accruent Meridian Enterprise Configuration Guide* and *Accruent Meridian Enterprise User s Guide.*

Client Improvements

The following improvements have been made to the PowerWeb client application unless otherwise noted:

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. **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.
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.
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.
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.
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
MPS-24677 MPS-24678	You can now set the print quality to be used in PDFTron on a document and a rendition.
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.
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
MPS-29515 MPS-29497	Populated document properties no longer require a value when it has already been entered.

Reference	Description
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.
MPS-30685	An issue with deleting documents in PowerUser was resolved.

Reference	Description
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.
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.
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.

For more information, see *Accruent Meridian Enterprise User's Guide.*

Configuration Improvements

The following improvements have been made to the configuration of Meridian Enterprise:

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 **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.
MPS-30777	In Meridian Configurator property sets, you can now Apply input restrictions to memo properties that are enabled for scripting.
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**

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}`

Reference	Description
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.
MPS-32328	The Watermark property now supports two lines.
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. Report definitions can be assigned to a scope.

For more information about these improvements, see the *Accruent Meridian Enterprise Configuration Guide.*

Customization Improvements

The following improvements have been made to the Meridian Enterprise customization features (VBScript):

Customization improvements

Reference	Description
MPS-24374 MPS-24595	The property **ConcurrentEngineering** rule 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.
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.

Reference	Description
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.
MPS-30126	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.
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.
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 ProjectFolderPropertySet.ProjectID value for current project folder.
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.
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.
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.
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 You can also use the Document.AddReorderingComment method to add a reordering comment to the Project Copy.
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.

For more information, see the *Accruent Meridian Enterprise VBScript API Reference Guide* or the *Accruent Meridian Enterprise .NET API Reference Guide.*

Viewer Improvements

The following improvements have been made to the Meridian Enterprise viewer:

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. **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.
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.

What's New In Meridian Explorer 2021

The new features and improvements of Meridian Explorer include:

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. **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.
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.
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.
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.
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. **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.

Reference	Description
MPS-30660	You can now configure the properties shown when users hover over a hotspot on a PDFTron rendition.
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.
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.
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.

What's New In Accruent Publisher 2021

The new features and improvements of Accruent Publisher include:

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.

Reference	Description
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.

Release 2020 R2

Meridian Enterprise 2020 R2 was released in July, 2020.

The following topics comprise the release notes for Meridian Enterprise 2020 R2.

What's New In Meridian Enterprise 2020 R2

The major themes of the improvements to Meridian Enterprise 2020 R2 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

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

Administration Improvements

The following improvements have been made to the administration of Meridian Enterprise:

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. Configuration is described in Configure OpenId Authentication 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.
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.
MPS-24839	Multiple Meridian web servers may now be registered in Meridian Enterprise Server to make them easier to open by PowerWeb users as described in Register Web Servers.
MPS-25005	A new registry value **MailServerParameters** has been added to configure different SMTP servers per vault as described in HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\Installed DataStores\<vaultname>.
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
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.

Reference	Description
MPS-26990	The subscriptions and audit log viewer (WebExtensibilityDBViewer) web application now supports the Microsoft OLE DB Driver for SQL Server (MSOLEDBSQL).
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.

For more information, see *Accruent Meridian Enterprise Administrator's Guide.*

Application Link Improvements

The following application link improvements have been made:

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 as described in [Configure Advanced Settings].
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.

For more information, see *Accruent Meridian Enterprise Configuration Guide* and *Accruent Meridian Enterprise User s Guide.*

Client Improvements

The following improvements have been made to the PowerWeb client application unless otherwise noted:

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 Third Party Viewers. If the rendition is already in Forge, you can change the URL of the Forge Viewer for that document as described in ChangeForgeURL method.
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 Vault Privileges.
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. 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 Using Find and the columns that are shown in the search results may now be configured by a system administrator. For configuration information, see MPS-24725 in Configuration Improvements.
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.
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 Using Find.
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.

Reference	Description
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.
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 Meridian PowerWeb, 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.
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.

Reference	Description
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.

For more information, see *Accruent Meridian Enterprise User's Guide.*

Configuration Improvements

The following improvements have been made to the configuration of Meridian Enterprise:

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.
MPS-23639	When a file name is calculated from a document type, it is no longer truncated after the last . 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 Configuring column layouts. This collection is intended to restrict the properties that users may select for the **Set Property Value** command described in Setting a property value. **Note:** The vault must be upgraded as described in Upgrading Meridian vaults 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 Vault Privileges. 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 Setting a property value. 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. 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.
MPS-24725	A new column collection named **Folder Search Result Columns** has been added to the **Environment** branch in Meridian Configurator as described in Configuring column layouts. 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 Upgrading Meridian vaults 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.
MPS-26602	A new option **Document imported from Portal** has been added to email notification event configuration.

Reference	Description
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.
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.
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.

For more information about these improvements, see the *Accruent Meridian Enterprise Configuration Guide.*

Customization Improvements

The following improvements have been made to the Meridian Enterprise customization features (VBScript):

Customization improvements

Reference	Description
MPS-211	The performance of the GetUsersWithRole method has been significantly improved.
MPS-335, MPS-27696	The **GoTo** method is now supported by PowerWeb as described in GoTo Method.
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. A new property **ConfirmationTitle** is available as well as new methods **AskInput**, **AskConfirmation**, **Confirmation**, and **ShowInfo** as described in Batch Object Methods. 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.

Reference	Description
MPS-22345	A new ForgeURL property and ChangeForgeURL method have been added to the **Document** object in the VB Script API.
MPS-26849	The document property IsChangedByPortal property has been added to the **Document** object in the VB Script API.
MPS-27326, MPS-27327	We've added these in the VB Script API for PowerWeb to allow you to determine the document types that are configured for the current scope: • DocumentTypes method to the scope object • DocGenericEvent_BeforeSelectDocType event.
MPS-27981	Fixed an issue with the GetUsersWithRole method that caused it to return all users regardless of their role membership when invoked by the Rescue Account.

For more information, see the *Accruent Meridian Enterprise VBScript API Reference Guide* or the *Accruent Meridian Enterprise .NET API Reference Guide.*

Viewer Improvements

The following improvements have been made to the Meridian Enterprise viewer:

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.

Reference	Description
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.
MPS-29798	These unsupported file formats were removed from the Autodesk Forge Rendering Module: • slddrw: • rfa: • drw:

What's New In Meridian Explorer 2020 R2

The new features and improvements of Meridian Explorer include:

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. **Pre-2017 sync mode** is not supported.

Reference	Description
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 Third Party Viewers. If the rendition is already in Forge, you can change the URL of the Forge Viewer for that document as described in ChangeForgeURL method.

What's New In Accruent Publisher 2020 R2

The new features and improvements of Accruent Publisher include:

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.
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.
MPS-19942, MPS-25766, MPS-27000	A new job template **Synchronize Content** has been added as described in Publishing Jobs and Configure Content Synchronization Options. 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.
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.
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.

Reference	Description
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.

Release 2020

Meridian Enterprise 2020 was released on Month January, 2020.

The following topics comprise the release notes for Meridian Enterprise 2020.

What's New In Meridian Enterprise 2020

The major themes of the improvements to Meridian Enterprise 2020 are:

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

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

Reference Materials

Administration Improvements

The following improvements have been made to the administration of Meridian Enterprise:

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.

Reference	Description
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.
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 Sending documents to Meridian Portal.
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 HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\Client. 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 Viewing and editing the connectivity settings.
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 HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\WebLink\Published Locations\<ID>.
MPS-21763	Fixed an issue that could cause repository synchronization jobs to fail that contained hybrid documents with parts larger than 2 GB.

Reference	Description
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.
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 What is the Meridian Cloud Connector client and do I need it?
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 Managing a Meridian Enterprise vault with metadata described in Importing 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.

Reference	Description
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.
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 Deploying standard preferences can now be set in the web server registry setting as described in HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\WebLink\UserPreferences\Default.
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 Configuring HTTPS.
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 Configuring Tag Synchronizer and Configuring Tag Link Synchronizer.
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.

For more information, see *Accruent Meridian Enterprise Administrator's Guide.*

Application Link Improvements

The following application link improvements have been made:

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 Working with Inventor models.
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 Configuring the AutoCAD link. If set to 1, warning messages about circular reference creation are suppressed.
MPS-23064	The SolidWorks application link now supported 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.

For more information, see *Accruent Meridian Enterprise Configuration Guide* and *Accruent Meridian Enterprise User's Guide*.

Client Improvements

The following improvements have been made to the PowerWeb client application unless otherwise noted:

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 Opening a document from within Meridian.
MPS-14689	When the **ActiveX compatibility mode** option is enabled as described in Setting personal preferences and a site cache is connected as described in Configuring a site cache connection and the **Unlock document** command (Locking and unlocking 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 disabled **ActiveX compatibility mode**, unlock the document and re-enable the option. This issue is expected to be resolved in a future release.
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 Downloading documents and Downloading renditions, respectively.
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.
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.

Reference	Description
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 Viewing prior revisions.
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 Linking folders to Meridian Portal.
MPS-20582	When a package is sent to Meridian Portal and later retracted, the documents are now automatically unlocked in the Meridian vault.
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 Sending documents to Meridian Portal.
MPS-20949	A new **Send to Portal** option is available when packages are created as described in Sending documents to Meridian Portal.
MPS-21234	Batches of renditions may now be printed as described in Printing documents.

Reference	Description
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 Creating and editing reference types 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.
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.
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.

Reference	Description
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 Configuring the document to tag relationships 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.
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 Creating and editing custom commands.
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.

For more information, see *Accruent Meridian Enterprise User's Guide.*

Configuration Improvements

The following improvements have been made to the configuration of Meridian Enterprise:

Configuration improvements

Reference	Description
MPS-17592	A new option **Execute recursively for referenced documents** has been added to custom commands as described in Creating and editing custom commands. 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.
MPS-22128	A new option **Secure PDF** has been added to rendition watermark profiles as described in Configuring rendition watermarks. 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 Creating and editing reference types.
MPS-22347	A new format named **Master/Project Copy** has been added to the **Revision number** option as described in Configuring document revision numbers.
MPS-24676	Fixed an issue that caused documents to not import if the source of a property mapping was an expression.

For more information about these improvements, see the *Accruent Meridian Enterprise Configuration Guide.*

Customization Improvements

The following improvements have been made to the Meridian Enterprise customization features (VBScript and .NET API):

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 VaultEvent_ChangeScope event.
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.

For more information, see the *Accruent Meridian Enterprise VBScript API Reference Guide* or the *Accruent Meridian Enterprise .NET API Reference Guide.*

Viewer Improvements

The following improvements have been made to the Meridian Enterprise viewer:

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 HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\WebLink.
MPS-21304	Fixed an issue in PowerUser that could cause the **Search** pane from appearing when a document is opened in Adobe Reader.

Reference	Description
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.
MPS-23616	In PowerWeb, if the **View renditions** option is disabled as described in [Setting personal preferences](#) 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.

What's New In Meridian Explorer 2020

The new features and improvements of Meridian Explorer include:

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 Downloading files.
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.
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 Exporting a package.
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 Creating a package.
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.

What's New In Accruent Publisher 2020

The new features and improvements of Accruent Publisher include:

What's new in 2020

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 Configuring rendering options.
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 Configuring the publishing options 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.

Release 2019 R2

Meridian Enterprise 2019 R2 was released on July 1, 2019.

The following topics comprise the release notes for Meridian Enterprise 2019 R2.

What's New In Meridian Enterprise 2019 R2

The major themes of Meridian Enterprise 2019 R2 are:

- Link support for the latest CAD applications
- New, smaller, and simpler PowerWeb client setup for non-CAD users
- Third-party component updates
- Numerous quality, stability, and performance improvements

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

Reference Materials

Administration Improvements

The following improvements have been made to the administration of Meridian Enterprise:

Administration improvements

Reference	Description
MPS-200, MPS-15184	A new client installation package named the Meridian Cloud Connector is available that can be installed on PCs that will connect to Meridian Cloud only and not connect to a Meridian Enterprise on-premises installation. The installation package does not require administrative rights on the PC to run. It provides local workspace, site cache, and download functionality only. No CAD links are provided. The installation package can be downloaded from the Meridian Cloud landing page.

Reference	Description
MPS-18268	SQLite is now supported in addition to Microsoft SQL Server Compact Edition for local workspace management in the Meridian clients, and is the default for the new Meridian Cloud Connector. SQLite eliminates the previous requirement that the installation package be run with administrator permissions on the PC. A new value (**8**) is now supported by the **WorkSpaceDB** registry value to enable SQLite as described in HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\Client.
MPS-19205	An issue has been fixed that could cause the AutoVue client/server settings to be set on a server when Meridian server is installed with an AutoVue 3D desktop deployment already installed.
MPS-19690	An issue has been fixed that could cause the Windows Search service to remain in a disabled state after uninstalling Meridian.
MPS-19556	An issue has been fixed that could cause a vault to stop working during reindexing.
MPS-19998	An issue has been fixed that could cause the **UsePDFTron** and **DisableThumbnailUpdate** registry values to be reset to the default values during an installation upgrade or repair.
MPS-20208	An issue has been fixed that could cause an **Account is already registered for user** error and prevent a user from opening a vault. This could occur if Meridian was configured to use Meridian Enterprise Server for user management, a new user account was created in Meridian Enterprise Server and linked to the user's FQDN or NETBIOS name, and the user attempted to open the vault using the FQDN or NETBIOS name. Now an account cannot be created if the user is already registered using a FQDN or NETBIOS name.
MPS-20861	The CAD application links and Application Integration now support site cache connections over TLS 1.0, 1.1, and 1.2.

For more information, see *Accruent Meridian Enterprise Administrator's Guide.*

Application Link Improvements

The following application link improvements have been made:

Application link improvements

Reference	Description
MPS-15845, MPS-18560	The AutoCAD application link now supports AutoCAD 2020 and its vertical industry editions.
MPS-17112	The AutoCAD and MicroStation application links have been upgraded to the ODA Platform 2019 Update 2 libraries.
MPS-17272	Batch support for MicroStation tag extraction has been improved.

Reference	Description
MPS-17548	An issue has been fixed in the AutoCAD application link that could cause drawings opened in AutoCAD from PowerWeb in remote mode to be read-only if the user is not the same one as is configured in the site cache connection and the **Use workspace** option is enabled.
MPS-17691	The AutoCAD Plant 3D link has been improved with a new configuration section named **LocalDefinitions** that can be added to a search rules file to support local workspace and shared workspace synchronization as described in Configuring project file synchronization.
MPS-18557	The Autodesk Revit application link now supports Revit 2020.
MPS-18558	The AutoCAD application link now supports RealDWG 2020 for DWG file access.
MPS-18638	The Application Integration client now shows property columns in Remote mode the same as in Online mode.
MPS-19894	An issue has been fixed in the MicroStation application link that prevented document to document relationships from being created during tag extraction.
MPS-19997	An issue has been fixed in the AutoCAD Plant 3D link that could prevent the **Attach Custom** command from linking related files to a project file and importing them into the vault from a shared workspace in remote mode.
MPS-20271	An issue has been fixed that could cause Application Integration (AMHookTray64) to not start automatically after Windows restarts.
MPS-20857	An issue has been fixed in the CAD links that could cause **Removing this item is not allowed. ; The action cannot be completed now as it is blocked by another session** errors during tag synchronizations.
MPS-20862	An issue has been fixed in Application Integration that prevented documents from downloading from a site cache using third-party authentication.

For more information, see *Accruent Meridian Enterprise Configuration Guide* and *Accruent Meridian Enterprise User's Guide*.

Client Improvements

The following improvements have been made to the PowerWeb client application unless otherwise noted:

Client improvements

Reference	Description
MPS-15873	Improvements have been made in stability and performance.
MPS-16592	An issue has been fixed that could cause custom icons in PowerUser to be cropped if the Windows display scaling on the user's PC is set to greater than 100%.

Reference	Description
MPS-17215	The subscriptions viewer page can now be opened with the **My Subscriptions** command in the **Vault** ribbon menu as described in <u>Viewing and removing subscriptions</u>. Subscriptions must still be configured first by a system administrator as described in <u>Installing the subscriptions viewer</u> for the command to work.
MPS-18182	An issue has been fixed that prevented dynamic collection options from not working correctly in a new tab.
MPS-18248	An issue has been fixed that could cause custom properties that are included in the Field-Path definition of hybrid part files to be set incorrectly when a project copy is made.
MPS-18349	Improved the stability of the connection of the local workspace synchronization component to a site cache server and reduced error messages.
MPS-18888	An issue has been fixed that prevented the **Copy With References** command from working.
MPS-19033	The legacy ActiveX components can be enabled for importing documents by setting the **UseHTMLImport** option to 0 in individual users' profile files as described in <u>Deploying standard preferences</u>. It can be enabled for all PowerWeb users by setting the option in the web server registry as described in <u>HKEY_LOCAL_MACHINE\SOFTWARE\Cyco\AutoManager Meridian\CurrentVersion\WebLink\UserPreferences\Default</u>. When set to 1 (default), the option enables drag-and-drop document import and an HTML-based **Select Folder** dialog box by the **Import Documents** command to import documents in other than the **Folders** navigation view. When set to 0, the setting disables drag-and-drop document import and documents are always imported into the root folder of the vault.
MPS-19210	An issue has been fixed that incorrectly included the **Document Type Id** column in view layouts.
MPS-19403	An issue has been fixed that could cause reference synchronization to fail when importing an assembly that requires wizard pages to be completed together with a document that has an unrelated file extension and document type.
MPS-19569	An issue has been fixed that prevented the active search criteria from appearing correctly after the search was performed.
MPS-19694	An issue has been fixed that could cause an **Unexpected error** to occur when a user without a profile and with cookies disabled or in a private browser session performed a search.
MPS-19708	When viewing PDF documents in the PDFTron viewer, hyperlinks now open in a separate browser tab similar to Adobe Acrobat Reader.
MPS-19779	In PowerUser, an issue has been fixed that could cause redlines to be lost when switching between applications and documents during the redlining session.

Reference	Description
MPS-20005	The performance of navigation views that contain thousands of items has been improved 15%-20%.
MPS-20080	An issue has been fixed that could cause the **New Document** and **Import Documents** commands to be unavailable when a folder is selected in a navigation view.
MPS-20310	An issue has been fixed that could cause **Cannot get object; Object not found** errors when revoking Quick Changes for a selection of documents.
MPS-20555	An issue has been fixed that could cause new document wizard pages to appear unexpectedly when releasing a document created new in a project as a master revision when the master document does not exist and a site cache is configured for local workspace synchronization but the **Site cache mode** and **ActiveX compatibility mode** user options are disabled.

For more information, see *Accruent Meridian Enterprise User's Guide.*

Customization Improvements

The following improvements have been made to the Meridian Enterprise customization features (VBScript and .NET API):

Customization improvements

Reference	Description
MPS-19917	In PowerUser external property pages, the ***OnSubmit** events that return false now abort the form submission and keep the page in edit mode the same as PowerWeb.
MPS-20588	An issue has been fixed that could cause the **RootFolder** value to be lost during the **ProjectWorkflowEvent_PrepareBrowser** event if **ProjectsFolderTree** equals 1.

For more information, see the *Accruent Meridian Enterprise VBScript API Reference Guide* or the *Accruent Meridian Enterprise .NET API Reference Guide.*

Viewer Improvements

The following improvements have been made to the Meridian Enterprise viewer:

Viewer improvements

Reference	Description
MPS-17751	Matching search terms are now highlighted in the AutoVue viewer.

Reference	Description
MPS-18561	DWG TrueView 2020 is now supported. For limitations, see *Supported Software* for this version of Meridian Enterprise.
MPS-19713	Renditions generated by PDFTron now display Internet (https, https) hyperlinks but not links to local files.
MPS-19781	An issue has been fixed that prevented the **Font Path** setting from being saved for AutoVue desktop deployments used with 32-bit Meridian clients.

What's New In Meridian Explorer 2019 R2

The new features and improvements of Meridian Explorer include:

What's new in 2019 R2

Reference	Description
MPS-19706	An issue has been fixed that could cause source documents to be downloaded instead of renditions from a site cache.
MPS-19682	Search results are now highlighted in the AutoVue viewer.

What's New In Accruent Publisher 2019 R2

The new features and improvements of Accruent Publisher include:

What's new in 2019 R2

Reference	Description
MPS-14485	The Teigha DWG rendering module has two new options **Enable layer support** and **Include layers with visibility off** that can be used to create layered PDF renditions.
MPS-14486	The Teigha DGN rendering module has two new options **Enable layer support** and **Include layers with visibility off** that can be used to create layered PDF renditions.
MPS-15845	The AutoCAD rendering module now supports AutoCAD 2020.
MPS-17112	The AutoCAD and MicroStation rendering modules have been upgraded to the ODA Platform 2019 Update 2 libraries.
MPS-19331	An issue has been fixed in the AutoVue rendering module that caused it to fail when with an AutoVue 3D desktop deployment installed.
MPS-19464	The AutoCAD rendering module now adds the error message **Cannot set plotter** to the publishing log when the plotter is unavailable instead of **AutoCAD is busy**.

Release 2019

Meridian Enterprise 2019 was released on March 20, 2019.

The following topics comprise the release notes for Meridian Enterprise 2019.

What's New In Meridian Enterprise 2019

The major themes of Meridian Enterprise 2019 are:

- Easier setup of local workspace components for PowerWeb users
- PowerWeb improvements in batch operations, lookup lists, Meridian Explorer integration, and usability
- PDFTron viewer improvements for renditions
- Seamless integration with Meridian Portal
- SAML authentication improvements

> **Note:**
> Electronic signatures are not supported with SAML authentication.

- PowerWeb extensibility through external pages
- Multi-language support for configurable vault items
- Support for cloud-based licenses

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

Reference Materials

Administration Improvements

The following improvements have been made to the administration of Meridian Enterprise:

Administration improvements

Reference	Description
MPS-15	Synchronizing Meridian Enterprise Server with an Active Directory no longer records user account updates in the audit log.
MPS-23	A more descriptive error message is now shown when a user attempts to open a vault using an account name that matches their account ID and contains only numbers.
MPS-30	An issue has been fixed that could cause the **Add comment** permission to not work correctly in Meridian Explorer.
MPS-31	An issue has been fixed that could cause Meridian Explorer import jobs to fail if many property validations fail for the same document.
MPS-42	An issue has been fixed that could cause SAML authentication failures by the CAD links and site cache.
MPS-56	An issue has been fixed that could cause **Access denied** errors in vaults with no security roles assigned and SAML authentication enabled.
MPS-59	A Publisher server license is no longer required for users to perform import/export package operations.
MPS-76, MRS-242	A new administrative permission group named **Audit Log Viewers** has been added to Meridian Enterprise Server Administration Console as described in Configuring administrative permissions. It can be set to an existing group to which you want to allow the ability to view the audit log database. Previously, only members of the **Application Administrators** group were able to view the audit log.
MPS-79	To help prevent accidental changes, the **Server name** setting described in Viewing and editing the connectivity settings may now be changed only by members of the local system **Administrators** group or the Meridian **Application Administrators** group.
MPS-81, MPS-95	PowerWeb, Meridian Explorer, and Application Integration (site cache client) can now be configured with SAML authentication as described in: • Configuring a site cache connection • Configuring SAML authentication • Configuring SAML authentication • Electronic signatures are not supported with SAML authentication. • The Meridian authentication portal (`https://auth-prd.meridiancloud.net`) must be added to the **Trusted Sites** list of clients for single sign-on to all Meridian clients.
MPS-85, MPS-14483	During processing, the Vault Consistency Wizard now displays the current step, the total number of steps, and a progress bar.

Reference	Description
MPS-90	A command line tool is now available from Accruent Support that produces a report of documents and folders that were added or deleted by the Vault Consistency Wizard as described in [Running the Vault Consistency Wizard](#).
MPS-91	In Meridian Enterprise Server Administration Console, a user with the **User Administrator** role may no longer assign users to groups that have permissions that the user does not have.
MPS-153	An issue has been fixed that could cause Internet Information Services to stop working on the Meridian web server when multiple users attempt to create documents at the same time.
MPS-270	An issue has been fixed that could cause Windows Search to stop working on the server after the Meridian search integration is installed.
MPS-388	An issue has been fixed that could cause the file `AcETransmit.dll` to not be deleted when Meridian is uninstalled.
MPS-393	Vault data that is collected by Meridian Analytics is now hashed for more secure transmission to Meridian Cloud.
MPS-412	Oracle 18c (18.0.0.0) is now supported in Meridian 2018 and 2019.
MPS-414	Beginning with Meridian Enterprise 2019, the Microsoft OLE DB Driver for SQL Server must be installed on the Meridian server to create vaults stored in any version of SQL Server. This driver adds support for the latest TLS 1.2 standard and is backward compatible with the SQL Server Native Client but is not included with the client. The driver is required whether TLS 1.2 is used or not. For more information about and to download the Microsoft OLE DB Driver for SQL Server (MSOLEDBSQL), which replaces the legacy OLE DB Provider for SQL Server (SQLOLEDB), see: • [Announcing the new release of OLE DB Driver for SQL Server](#) • [Released: Microsoft OLE DB Driver for SQL Server](#) • [Microsoft OLE DB Driver for SQL Server](#) • [Download Microsoft OLE DB Driver for SQL Server](#)
MPS-423	The **Link to Project** privilege described in [Folder privileges](#) has been renamed to **Link to Portal Project**.
MPS-428	A new Meridian license server may be selected during installation that connects to a single pool of subscription licenses managed in Meridian Cloud. The licenses are then claimed for 24 hours to allow for continuous use regardless of brief interruptions in Internet connectivity. The cloud license server does not support "follow the sun" license assignments.
MPS-442	An issue has been fixed that could cause unexpected results when creating project copies of a batch of documents.

Reference	Description
MPS-445, MPS-14904	An issue has been fixed that could cause extra rendition files and PDFTron intermediate (XOD) stream files when documents are published or rendered.
MPS-461	A new option named **Import scanned packages** has been added to the **Meridian 360 tenancy** connection options in Meridian Enterprise Server Administration Console as described in Viewing and editing the connectivity settings. If enabled, packages that are successfully scanned are imported automatically and do not need to be imported manually as described in Importing an import package. This option is intended for use with packages sent from Meridian Portal to accelerate the document handover process.
MPS-639	The **WorkSpaceLocation**, **WorkSpaceLockID**, and **WorkSpaceNoUserName** registry values may now be set in the HKEY_CURRENT_USER hive and are overridden by values with the same name in the HKEY_LOCAL_MACHINE hive if they exist. For more information, see HKEY_CURRENT_USER\Software\Cyco\AutoManager Meridian\CurrentVersion\Client\Settings.
MPS-13984	The **Connect as current user** command described in Configuring a site cache connection has been changed to **Logout** and the user must now manually log in with different credentials.
MPS-14425, MPS-14556	A new server registry value **WorkSpaceSharedCheck** has been added that, when set to 1, detects shared workspace folders during document downloads and recreates them if they do not exist, which can take a unacceptable amount of time. If this value is 0 (default), this checking is not done and downloads occur faster but referenced drawings may not be resolved correctly. For more information, see HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\Client.
MPS-14794	An issue has been fixed that could cause **No E-mail address for System.Reflection.Missing** messages in the Application event log when the **Project copy created** event is enabled for email notifications but no users are subscribed to the source document when a project copy is made.
MPS-15106	The Meridian 2019 license server requires Meridian 2019 licenses and will not work with earlier licenses. Earlier license servers will work with Meridian 2019 licenses.
MPS-15108	An issue has been fixed that could cause vault upgrades to Oracle 9.0 to fail.
MPS-15380	An issue has been fixed in the Meridian client installation package that could cause the Meridian Portal authentication settings to be missing after installation.
MPS-15470	TLS 1.2 is now supported by all Meridian applications.
MPS-15726	An issue has been fixed that could cause synchronized documents to be missing in a Meridian Explorer repository hosted in SQL Server if the database uses accent insensitive collation.

Reference	Description
MPS-15776	An issue has been fixed that could cause the Meridian server installation package to fail to prompt for service account credentials when adding services to an existing installation.
MPS-16239	The **Check and Repair** option has been removed from the Vault Consistency Wizard.
MPS-16400, MPS-16873, MPS-16874	An issue has been fixed that could cause the Meridian server to stop working after upgrading a vault.
MPS-16652	An issue has been fixed that could cause the EDM server to stop working and not be able to be started again.
MPS-16664	An issue has been fixed in the installation package that could cause the Windows Search service to not restart after an upgrade is installed.
MPS-16783	An issue has been fixed that could cause the EDM server system time to jump ahead unexpectedly and results in users receiving **Invalid effectivity** errors.
MPS-17271	A new server registry value **ViewerWithoutMDS** has been added that, when set to **1** (default), prevents metadata and other data files from being sent along with document files for viewing. If this value is **0**, the metadata is always sent as in prior versions. For more information, see HKEY_LOCAL_ MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\WebLink.
MPS-17363	In Meridian Enterprise Server Administration Console, an issue has been fixed that prevented the **Before** filter from being applied to date fields in the audit log.
MPS-17507	Information is now logged when site cache servers fail to register in Meridian Enterprise Server to aid with troubleshooting.
MPS-17595	In Meridian Enterprise Server Administration Console, an issue has been fixed that could cause errors when configuring scheduled site cache cleanups.
MPS-18044	The names Meridian 360 and the abbreviation M360 in the user interface have been changed to Meridian Portal. Any remaining references to them in the software or documentation should be read as Meridian Portal.
MRS-294	New commands named **Check for locked documents** and **Unlock documents** have been added to Meridian Enterprise Server Administration Console. The commands can be used to view and unlock the documents, respectively, that are locked by a selected user as described in Managing a Meridian Enterprise vault.
MRE-5655	A new server registry value **LogLastEffectivityChange** has been added to help with troubleshooting mismatches between Meridian server system time and that of client PCs as described in HKEY_LOCAL_ MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\Server.

For more information, see *Accruent Meridian Enterprise Administrator's Guide.*

Application Link Improvements

The following application link improvements have been made:

Application link improvements

Reference	Description
MPS-35	An issue has been fixed that could cause the Autodesk Revit link add-in files to be installed in the wrong location on PCs with the Windows language set to German.
MPS-55	An issue has been fixed that could cause properties to fail to update when an assembly is opened from a drawing in SolidWorks.
MPS-69	The AutoCAD application link now supports AutoCAD 2019.1.
MPS-70	The Autodesk Inventor application link now supports Autodesk Inventor 2019.1.
MPS-75	A new command has been added to the AutoCAD link to route Civil 3D shortcut files to a writable state for editing and synchronization with the vault.
MPS-130	An issue has been fixed that could cause **Catastrophic failure** errors when using the **Open**, **Save**, or **Save As** commands of Application Integration after installing the July 2018 updates for Microsoft Office.
MPS-434, MPS-14815	The MicroStation application link now supports data extraction from multiple tags per cell as described in Configuring MicroStation tag and cell synchronization.
MPS-463	The AutoCAD application link supports a new advanced configuration setting **HybridExSearch** that, when set to 1, will resolve one unresolved Xref to one unused hybrid part as described in Configuring advanced settings.
MPS-470	The AutoCAD application link supports a new advanced configuration setting **Civil3DHideWCDialog** that, when set to 1, suppresses the data shortcut selection dialog when the **Edit data shortcuts** command is run as described in Configuring advanced settings.
MPS-935	The AutoCAD Civil 3D application link now correctly revokes changes to data shortcuts when the application is closed with Application Integration in Remote mode.
MPS-13919	The AutoCAD application link now supports the **Project Control** property set of sheets sets in AutoCAD Civil 3D.
MPS-13933	The Office application link now synchronizes the fields in headers and footers in all sections of a Word document. Previously, it only synchronized the fields in the first section of the document with the assumption that subsequent headers and footers were identical and linked to the first section.
MPS-14028	AutoCAD Civil 3D models may now reside in any location that has a data shortcut and the drawings will be synchronized with the current drawing. Previously, the models had to be located in sub-folders of the data shortcut folder.
MPS-14813	The Office application link now supports Office 2019.

Reference	Description
MPS-14814	The SolidWorks application link now supports SolidWorks 2019 SP0.
MPS-14849	In the AutoCAD application link, an issue has been fixed that could cause **Unknown WinInet error 70625** errors when attempting to start a workflow from the Application Integration **Open** dialog box within AutoCAD.
MPS-15122	The performance of the AutoCAD Civil 3D link **Synchronize Data Shortcuts to Vault** command has been significantly improved by skipping unchanged data shortcuts. The link provides a new command **Synchronize All Data Shortcuts To Vault** for use when initializing legacy projects. The command is hidden by default and can be enabled for specific users by setting the **AcadBaseConfig** registry value described in HKEY_CURRENT_USER\Software\Cyco\AutoManager Meridian\CurrentVersion\AutocadLink.
MPS-15319, MPS-17451	In the AutoCAD application link, an issue has been fixed that could cause a VBScript expression to fail that has been configured to return the tag type for tag extraction.
MPS-15379	The Office application link no longer provides a default filename in the **Save As** dialog box in MS Word.
MPS-15727	The MicroStation application link now supports cell text synchronization as described in Configuring MicroStation tag and cell synchronization.
MPS-16006	The performance of the AutoCAD Civil 3D link synchronization to local workspace has been improved.
MPS-16011	The **Save & Release** command is now available in the AutoCAD application link ribbon menu in Remote mode.
MPS-16084	In the MicroStation application link, an issue has been fixed that could cause **Unspecified Error** errors when synchronizing Meridian property values to MicroStation numeric and date type properties.
MPS-16195	The AutoCAD and MicroStation application links have been updated with ODA Platform 2019 Update 1.
MPS-16967	In the AutoCAD application links, a new client registry setting named **ButtonsForAll** has been added as described in HKEY_CURRENT_USER\Software\Cyco\AutoManager Meridian\CurrentVersion\AutocadLink.
MPS-17182	In the AutoCAD application link, an issue has been fixed that could cause the **Update Vault** command to fail for drawings with multiple title blocks inserted.
MPS-17295	In the AutoCAD application link, a new client registry value **RepairDocState** has been added as described in HKEY_CURRENT_USER\Software\Cyco\AutoManager Meridian\CurrentVersion\AutocadLink. When set to 1, it fixes an issue with drawings being read-only and cannot be saved when opened from PowerWeb in Online mode with a site cache configured.

Reference	Description
MPS-17301	An issue has been fixed that could cause CAD link commands to generate **LocalDB update failed** errors if a site cache is connected, Application Integration is in Remote mode, and the vault section name is different than the datastore name.
MPS-18224	In the SolidWorks application link, an issue has been fixed that could cause searching with the vault browser using the **contains multiple words** operator to not work correctly.
MPS-24629	
SR-6590	The AutoCAD application link includes support for 32-bit AutoCAD.

For more information, see *Accruent Meridian Enterprise Configuration Guide* and *Accruent Meridian Enterprise User's Guide.*

Client Improvements

The following improvements have been made to the Meridian Enterprise client applications:

Client improvements

Reference	Description
MPS-21	In PowerWeb, an issue has been fixed that could cause the **SelectUserDialogThreshold** setting to not be applied as described HKEY_LOCAL_ MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\WebLink\UserPreferences\Default.
MPS-24	An issue has been fixed that could cause **A task was canceled** errors when saving documents in CAD applications or releasing other document types in the following configuration: • Task Server is configured to update thumbnail images • Application Integration in **Remote** mode • **Site cache mode** enabled in PowerWeb • **Create thumbnails on import of document** enabled in PowerWeb • **Update thumbnails when releasing Quick Change** enabled in PowerWeb • **DiableThumbnailUpdate** = **2** or **3** in the PowerWeb user profile
MPS-26	An issue has been fixed that could prevent editing folder properties if a user cancels a wizard page.
MPS-29	In PowerWeb in site cache mode, an issue has been fixed that could cause the **OK** button to be unavailable in the **Add Comment** dialog box.
MPS-34	In PowerWeb, an issue has been fixed that could cause **The object is currently being edited by another session** errors.

Reference	Description
MPS-38	In PowerWeb, a new option named **Workstation** has been added as described in Setting personal preferences. Users that modify documents from multiple PCs should enter the PC name there and it will be used to generate document locks in case the Meridian web server is restarted in between user sessions on different PCs.
MPS-41	An issue has been fixed that could cause Invalid argument errors when a user's name contains umlaut characters (eg. ä) and they attempt a **Start Change** operation.
MPS-47	An issue has been fixed that could prevent thumbnail image generation.
MPS-50, MPS-63	In PowerWeb, the **Update Thumbnail** command is now always available.
MPS-53	In PowerWeb, wide custom wizard pages now display better.
MPS-61	An issue has been fixed that could cause the server to stop responding when a project copy is created and a project copy already exists outside the destination folder.
MPS-64	In PowerWeb, an issue has been fixed that could cause the **Select Folder** dialog box to not appear when importing documents with a navigation view active.
MPS-65	In PowerWeb in site cache mode, an issue has been fixed that could cause workflow transitions to not complete if they require electronic signatures.
MPS-66	In PowerWeb in site cache mode, an issue has been fixed that could cause **Http status 500: InternalServerError** errors.
MPS-77	PowerWeb now remembers property filter search criteria between sessions for easy reuse as described in Using Find. The filters can be cleared by clicking a **Reset** button.
MPS-78, MRS-262	In PowerWeb, the **Select Project** dialog box described in Copying a master document to a project folder now includes a filter text box that only shows project folders with paths that include the entered text.
MPS-92, MPS-433	BlueCielo branding has been replaced with Accruent branding.
MPS-96, MRS-261	In PowerWeb, a new profile option named **ProjectsFolderTree** has been added that changes the behavior of the **Select Project** dialog box that is shown when a user creates a new project copy of a document. The user is then allowed to navigate a folder tree to select the destination folder as described in HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\WebLink\UserPreferences\Default.
MPS-117	In PowerWeb, an issue has been fixed that could allow documents to be imported for a document type that is disabled for the current scope.

Reference	Description
MPS-129	In PowerWeb with a site cache connection, an issue has been fixed that could cause documents that reside in a shared vault folder to fail to open by the **Open** command after starting a Quick Change operation.
MPS-131	In PowerWeb, an issue has been fixed that could cause errors when using the shortcut menu on the **Revisions** page to compare source or rendition revisions.
MPS-143	In PowerWeb, an improved error message is shown when folder property changes cannot be saved because the same folder is being simultaneously edited by another user.
MPS-146, MPS-469	All functions of Application Integration now share the same SAML authentication including: local workspace remote mode, site cache connection, CAD links, generic Windows application link as described in Configuring a site cache connection.
MPS-161	In PowerWeb, the messages shown when a change is revoked under different conditions have been unified to be more consistent and descriptive.
MPS-164	In PowerWeb, an issue has been fixed that could cause linked asset tags to unexpectedly appear on the **Where Used** property page of an asset tag.
MPS-167	Documents sent to Meridian Portal are now locked sooner to prevent the user from attempting to send them again and thereby interfering with the export job.
MPS-171, MPS-173, MPS-175, MPS-198	Custom command names, property pages, navigation views, property names can now be shown in the user's selected language. The customer must produce a translation file (XLIFF) that contains the custom names and the corresponding translations as described in Localizing the user interface.
MPS-214	In PowerWeb, an issue has been fixed that could cause subsequent document downloads to fail unexpectedly when the first downloads fails due to the user not having sufficient privileges to a referenced document.
MPS-227	The **New Project** and **Portal Projects** dialog boxes have been enhanced to show the corresponding Meridian Portal project types. The project name and number of a selected project are now filled automatically.
MPS-304	In PowerWeb, a new command **Download Rendition with Redlines** is provided as described in Downloading renditions.
MPS-328	PowerWeb now supports the **Create Project Copy with References** command similar to PowerUser as described in Copying a master document to a project folder.
MPS-375	PowerWeb now deletes folders recursively and the confirmation dialog box alerts the user to sub-folders and documents that will be deleted. Previously, the user had to first delete the sub-folders before deleting a parent folder.
MPS-390	In PowerWeb, an issue has been fixed that could cause localized text to unexpectedly appear in English.

Reference	Description
MPS-391	In PowerWeb, an issue has been fixed that could cause errors when unlocking a document that is missing from the local workspace.
MPS-422, MPS-16403	PowerWeb now provides a **Compare Renditions** command that graphically overlays two renditions so that you can see the differences between them as described in Comparing files. Additions are shown in green, deletions in red, and unchanged entities in black similar to the **Compare** command in PowerUser for source files.
MPS-442	An issue has been fixed that could cause some documents in a batch to create project copies in unexpected folders.
MPS-444	In PowerWeb, the **Update Thumbnail** command now works on a selection of documents.
MPS-446	In PowerWeb in online and remote mode, an issue has been fixed that could cause the **AssetManagementUseAdditionalFiltering** setting to be applied instead of **ForceEnableFiltering**.
MPS-451	An issue has been fixed that could cause local workspace files to be read-only unexpectedly after synchronizing the local workspace in Remote mode with site cache enabled.
MPS-453	The **XOD Resolution** property on the **Rendition** property page described in Editing the rendition properties is now applied to rendition generation as well as to viewing.
MPS-467	Optimization has been done to reduce the chance of **References to the transaction still exist** errors.
MPS-471	Documents that are sent to Meridian from Meridian Portal for editing and then sent back to Meridian Portal are detected as having originated from Meridian Portal and automatically become new revisions of the original document.
MPS-472	In PowerWeb, an issue has been fixed that could cause watermark printing to be unstable.
MPS-478, MPS-17542	In PowerWeb, some error messages have been improved and made more reliable.
MPS-1905	The **Rendition** property set is now supported by the **Set Property Value** command as described in Editing the rendition properties.
MPS-2042	A new navigation view named **Active Comments** has been added to PowerWeb that lists documents that have open comments.
MPS-8587	In PowerWeb, the project members page described in Viewing and editing project memberships can now be shown for project folders.
MPS-13787	In PowerWeb in site cache mode, an issue has been fixed that could cause saving documents from CAD applications to fail.

Reference	Description
MPS-13915	In PowerWeb, an issue has been fixed that could cause read-only multivalue properties that have been set by the **Set Property Value** command to be cleared when exiting edit mode.
MPS-13943	The **Send to M360 Project Portal** dialog box now shows the Meridian Portal roles of the users to aid in selecting the correct recipients.
MPS-13983	The PowerWeb **Find** dialog box now accepts longer property names.
MPS-13999	The **Send to Portal** command now checks if each document in a package has been synchronized with Meridian Explorer before sending the package. If one or more documents have not yet been synchronized, the operation is aborted and the unsynchronized documents are listed in the progress dialog box.
MPS-14256	In PowerWeb, an issue has been fixed that could cause Date criteria in shared dynamic collections to be shown incorrectly.
MPS-14271	PowerWeb now presents all vault configuration text in the user's preferred language as described in [Setting personal preferences]().
MPS-14277	In PowerUser, an issue has been fixed that could cause the server to stop responding when a user performs a Quick Search, sorts the results on the **DocumentType** property and then performs another search.
MPS-14288, MPS-14926	In PowerWeb, an issue has been fixed that could cause some menu items to be unavailable if the linked Meridian Portal tenancy is misconfigured.
MPS-14382	In PowerWeb in site cache mode, an issue has been fixed that could cause previously selected to-do persons to be unassigned from a document after performing a search for and assigning another person.
MPS-14400	In PowerWeb, an issue has been fixed that could prevent item linking using the **Drawing Tags** and **Text Tags** dialog boxes.
MPS-14430, MPS-15479	User names with special German characters are now displayed correctly.
MPS-14563, MPS-15288	An issue has been fixed that could cause PowerUser to stop responding when printing documents through AutoVue.
MPS-14591	An issue has been fixed that could cause local workspace synchronization from a site cache to fail.
MPS-14777	Double-clicking a document to open it when it is already in a writable workflow state with a circular transition no longer prompts the user to route the document to a writable state.
MPS-14799	In PowerWeb, an issue has been fixed that could cause **Object not found** errors when deleting a document from the search results view of a project.
MPS-14915	An issue has been fixed that could cause a blank page to appear when starting a PowerWeb session.

Reference	Description
MPS-14922	An issue has been fixed that could cause date values used as dynamic collection property filters to show incorrectly.
MPS-15100	An issue has been fixed that could cause the wrong workflow transition prompt dialog box to appear when both **Site cache mode** and **ActiveX compatibility mode** options are disabled.
MPS-15352	A new field **Package description** has been added to the **Sent to Meridian Portal** dialog box to provide a description to the package recipient.
MPS-15392	An issue has been fixed that could cause the **Start Change** command in PowerWeb with a site cache enabled to unlock documents that were locked by the **Send to Portal** command.
MPS-15519	The PowerWeb scripts are now installed as minified code to increase page loading speed and security.
MPS-15538	In PowerWeb, an issue has been fixed that could prevent it from correctly claiming a license.
MPS-15546	In PowerWeb, an issue has been fixed that could show the latest revision to be shown when the user attempts to show a prior revision from the **Show Revision** list and a site cache is connected.
MPS-15777	In PowerWeb, an issue has been fixed that could cause it to claim a license for the service account instead of the user if **SameIISEDMAccount** is set to 1.
MPS-15837	In PowerWeb, an issue has been fixed that could prevent document content from appearing correctly that was repeatedly uploaded with the **Replace content** option.
MPS-15846	In PowerWeb, an issue has been fixed that could prevent users from creating folders of custom types in a scope in which the **New Folder** command has been disabled.
MPS-15903	In PowerWeb, an issue has been fixed that could cause date values to be shown incorrectly in HTML reports.
MPS-16064	An issue has been fixed that could cause **Removing this item is not allowed. ; Link already exists** errors when removing multiple security role assignments from the root of the vault.
MPS-16072	In PowerWeb, an issue has been fixed that could cause the **Go to vault selection page** link to return the user to the last opened vault instead.
MPS-16127	An issue has been fixed that could that could cause the **Convert to Hybrid** command described in Converting normal documents into hybrid documents to create incomplete filenames for hybrid parts if the main part contained periods (.)

Reference	Description
MPS-16249	In PowerWeb, the **Apply the same folder for other documents** option has been removed from the **Select Folder/Select Project** dialog box in the **Import Documents** command so as to not conflict with batch processing performed by custom scripts.
MPS-16345	In PowerWeb, an improved message is shown when a user attempts to run the **Issue New File Name** command on a document without a site cache correctly configured.
MPS-16353	In PowerWeb, an issue has been fixed that could cause invalid commands to appear in a shortcut menu when the user clicks the **Search Results** heading.
MPS-16358	In PowerWeb, the **Import Documents** command now shows the vault name instead of the publish location name.
MPS-16528	In PowerWeb, an issue has been fixed that could cause the **Select Folder** dialog box to be empty when importing documents with a scope active that is limited to a specific folder and a navigation view selected that is other than the **Folders** view.
MPS-16580	In PowerWeb, an issue has been fixed that could cause **Invalid class string** errors when users attempt to run the **Send to Portal** command.
MPS-16581	In PowerWeb, an issue has been fixed that could cause the menu ribbon to unexpectedly appear on the vault selection page.
MPS-16604	In PowerWeb, an issue has been fixed that could cause a document that is locked in an export package to be unlocked when the document is included in a selection with other documents when the user invokes the **Start Change** command.
MPS-16622	Related tag objects are no longer downloaded by referenced documents when viewing or editing. For this to affect an existing vault, open the vault in Meridian Configurator, open the **AMM Settings** page for editing, and then click **OK** without making any changes.
MPS-16625	In PowerWeb, an issue has been fixed that could cause data values to appear as strange characters on the **Title Blocks** property page.
MPS-16869	In PowerWeb, an issue has been fixed that could set the **Hybrid** property to No for new documents created from a document type configured as a hybrid document.
MPS-17457	In PowerWeb, an issue has been fixed that could prevent notifications from being shown when a user downloads a document to their local workspace if the workstation name is entered in lower case.
MPS-17467	To link or unlink tags from documents or from other tags, you must now have the **Edit Tag Assignments** privilege for the command buttons to be available and the current document must the be latest revision of the document.

Reference	Description
MPS-17642	In PowerWeb. an issue has been fixed that could cause **Object not found** errors when creating project copy of a document without references.
MPS-17863	In PowerWeb. an issue has been fixed that could cause a document to not be locked when both a site cache and ActiveX compatibility mode are enabled.
MPS-17868	In PowerWeb. the performance of showing pages with many items has been dramatically improved.
MPS-17891	In PowerUser, an issue has been fixed that could cause sending a Revit file to Meridian Portal to fail.
MPS-17984	In PowerUser, an issue has been fixed that could cause the size of files larger than 3 GB to show incorrectly in search results.

For more information, see *Accruent Meridian Enterprise User's Guide.*

Configuration Improvements

The following improvements have been made to the configuration of Meridian Enterprise:

Configuration improvements

Reference	Description
MPS-16, MPS-420, MPS-421	A new element type named **Hyperlink** can be added to a property page panel layout to show a custom hyperlink. The destination URL and display text can be static or calculated by VBScript expressions. For more information, see [Configuring the property type of a panel element]().
MPS-268	An issue has been fixed that could cause the security role assignments of a parent folder to be incorrectly applied to its child folders when role assignments are imported with the **InheritFromParent** option set to False.
MPS-350	The **Unlock Documents for Others** privilege has been moved from the **Vault** section to the **Folder** section so that the privilege can be granted for specific folders and projects.
MPS-14253	An issue has been fixed that could cause a new document type to show electronic signature wizard pages even though they were not enabled in the vault configuration.
MPS-14271	Custom command names, navigation view names, property page names, panel text, and property names in the user interface can now be localized by customer-provided translations files as described in [Localizing the user interface](),
MPS-15328	An issue has been fixed that could cause the **Script** keyword to not work in the **TagType** settings of AutoCAD and MicroStation application link configurations.
MPS-15584	PowerWeb server performance has been improved for configurations with inactive external pages.

Reference	Description
MPS-17521	In PowerWeb with ActiveX mode enabled, an issue has been fixed that prevented the e-signature dialog box from appearing on project folder transitions if wizard pages were applied to the transition. The dialog box appeared correctly with site cache mode enabled.
MPS-17656	The publishing job options **Content to include** = **Current master**, **Lock master documents**, and **Create project copy** have been removed when the destination system is Meridian Portal. Now, a project copy is always created if it doesn't already exist, the project copy is always published, and master documents are not locked to Meridian Portal.
MPS-17814	A new setting named **ChunkSize** has been added to the `BCReminder.exe` program as described in Configuring reminders. It can be modified to set the maximum number of documents to list in individual email reminder messages.

For more information about these improvements, see the *Accruent Meridian Enterprise Configuration Guide.*

Customization Improvements

The following improvements have been made to the Meridian Enterprise customization features (VBScript and .NET API):

Customization improvements

Reference	Description
MPS-28	The Meridian Explorer web APIs **GetDocuments** and **GetDocument** described in Web API reference now return the correct URLs for rendition content.
MPS-32	An issue has been fixed that could cause the VBScript **DocGenericDevent_BeforeDelete** and **DocGenericDevent_AfterDelete** events to be skipped when a user deletes a folder.
MPS-57	The **Vault.User.HasRole** property now correctly returns **Folder.Roles.Assignments** results for all sub-folders of a parent folder as described in HasRole property and Assignments property .
MPS-93	The **DocGenericEvent_BeforeDelete** and **DocGenericEvent_AfterDelete** event handlers have been extended to occur also for folders as described in DocGenericEvent_*Delete events.
MPS-419	A new **SignatureRequired** property (False by default) has been added to the **Transition** object. It can be used to determine if a workflow transition requires electronic signatures.
MPS-426	Authorized Accruent Partners can now develop custom property pages for PowerWeb.

Reference	Description
MPS-452	An issue that caused the **DocCopyMoveEvent_BeforeCopy** event to return the source folder in the **TargetFolder** parameter has been fixed.
MPS-14731	The default value of the **Batch.ApplyToAll** property has been changed from False to True.
MPS-15669	An issue has been fixed that could cause a **Catastrophic failure** error in PowerWeb when a custom command calls the Connection API **InvokeEDMUICommand** method with **AMIV_UPDATETHUMBNAILS** set to -28.
MPS-15765	An issue has been fixed that could cause the **Batch.FailCurrent** method to raise a property validation error in workflow transition operations.
MPS-16249	The **DocGenericEvent_InitializeNewDocument** and **DocGenericEvent_TerminateNewDocument** event handlers are now only invoked once per batch of documents by the **Import Documents** command.
MPS-18385	An issue has been fixed that could cause the **DWGTagExtractor** object to not work with batches of drawings.

For more information, see the *Accruent Meridian Enterprise VBScript API Reference Guide* or the *Accruent Meridian Enterprise .NET API Reference Guide.*

Documentation Improvements

Besides being updated with the new features and bug fixes in Meridian Enterprise and overall documentation quality improvements, the following changes have been made to the Meridian Enterprise documentation in this release.

To consolidate information:

- The *Accruent Meridian FDA Module Configuration Guide* has been discontinued and its topics have been integrated into the *Accruent Meridian Enterprise Administrator's Guide* and *Accruent Meridian Enterprise Configuration Guide*.
- The *Accruent Meridian Advanced Project Workflow Configuration Guide* has been discontinued and its topics have been integrated into the *Accruent Meridian Enterprise Configuration Guide*.
- The *Accruent Meridian Asset Management Module User's Guide* has been discontinued and its topics have been integrated into the *Accruent Meridian Enterprise User's Guide*.
- The *Accruent Meridian Asset Management Module Administrator's Guide* has been discontinued and its topics have been integrated into the *Accruent Meridian EnterpriseConfiguration Guide*.

Separate guides no longer exist for any of what were previously known as optional modules.

Viewer Improvements

The following improvements have been made to the Meridian Enterprise viewer:

Viewer improvements

Reference	Description
MPS-18	Matching terms are now highlighted in the PDFTron viewer from the result of Quick Find searches.
MPS-54, MPS-14850	An issue has been fixed that could cause the **Compare** command to show documents in the incorrect order in the AutoVue viewer.
MPS-182	When viewing a rendition in PDFTron, the zoom factor is now limited to 1000%.
MPS-239	The AutoVue software is no longer provided in the Meridian Enterprise installation package and licenses may only be obtained from Oracle. However, Meridian integration will continue to be supported. A separate installation package named **AutoVue Setup for Meridian** is available upon request to existing customers who upgrade from a previous Meridian release that installed AutoVue.
MPS-427	PDFTron 3.3 is included in this release.
MPS-429	AutoVue 21.0.1.6 is supported by this release.
MPS-431	When viewing a rendition in Pan mode and the user fits the page to the viewing window, Zoom mode is enabled automatically to allow the user to immediately zoom in to a desired area.
MPS-460	When annotating a rendition in PDFTron, if the user has unsaved changes when they click outside the viewer, a warning message is now shown so that the user can save their changes.
MPS-464	In PowerWeb, multiple users may concurrently annotate a rendition in PDFTron without conflicts.
MPS-473, MPS-15390, MPS-15391	In PowerUser with the AutoVue viewer enabled, an issue has been fixed that could cause the program to stop responding when browsing drawings with very many hotspots.
MPS-13898	An issue has been fixed that could cause the AutoVue viewer default user profile file `default.ini` to not be applied.
MPS-14495	An issue has been fixed that could cause the AutoVue viewer to stop responding when browsing AutoCAD drawings.
MPS-14889	SolidWorks eDrawings 2019 is now supported.
MPS-15821	Hotspots may now be shown as either outlines or filled. To show outlines in an AutoVue desktop deployment, set the option in the **Viewer Options** dialog box described in Changing viewers. To show outlines in an AutoVue Client/Server deployment, add **HOTSPOTSTYLE=1** to the `allusers.ini` file described in Deploying standard viewer settings.
MPS-16795	In PowerWeb and Meridian Explorer, a descriptive error message is shown if a rendition fails to load during the **Compare** command.

Reference	Description
MPS-20190	In 32-bit PowerUser, an issue has been fixed that could cause the program to stop responding when attempting to view a document from the **Where Used** property page.

What's New In Meridian Explorer 2019

The new features and improvements of Meridian Explorer include:

What's new in 2019

Reference	Description
MPS-33, MPS-15444	Thumbnail images now appear for source and rendition files for users with either the **View Native** or **View Rendition** permissions.
MPS-464	Multiple users may concurrently annotate a rendition in PDFTron without conflicts.
MPS-477	Meridian Explorer now uses the full-text index on the Meridian Enterprise application server instead of the full-text index of the Meridian Explorer repository database. This change allows tags to now be supported by full-text search.
MPS-2042	A new filter named **Active Comments** has been added to the search form.
MPS-13862	An issue has been fixed that could cause messages for some languages to not fit in the **References** and **Related Tags** dialog boxes.
MPS-14015	An issue has been fixed that could prevent watermarks from appearing in hardcopies printed from the PDFTron viewer.
MPS-14021	Users are now warned if they attempt to navigate away from the viewer before saving annotations.
MPS-14209	An issue has been fixed that could prevent annotations from being saved that were made in the PDFTron viewer.
MPS-14395	An issue has been fixed that could cause the **{webaccess}** placeholder to not work as described in External page URL placeholders.
MPS-15006	Navigating via hotspots from a document that was opened via a hotspot now works correctly.
MPS-15014	An issue has been fixed that could cause watermarks to print in the wrong color.
MPS-15552	An issue has been fixed that could cause the AutoVue viewer to stop responding after browsing many documents.
MPS-17585	An issue has been fixed that could cause the local time to display incorrectly.

Reference	Description
MPS-18108	An issue has been fixed that could cause unexpected results when searching by dates.
MRE-196	A new option named **Print in background** has been added to the **Draft Print** dialog box. If enabled, it allows printing to continue when the browser window is minimized. Otherwise, printing is suspended.

What's New In Accruent Publisher 2019

The new features and improvements of Accruent Publisher include:

What's new in 2019

Reference	Description
MPS-14	The **SYNCH VALIDATION** command has been removed from the publishing jobs **Overview** page and a new option **Repair inconsistencies** has been added to the **Management Tools** page of repositories.
MPS-39	An issue has been fixed that could cause documents that were discarded from work areas in legacy vaults to fail to synchronize to a Meridian Explorer repository.
MPS-44	An issue has been fixed that could cause rendition jobs to fail if the **Watermark prior version** option is enabled and the **XOD Resolution** property of the document is empty.
MPS-48	An issue has been fixed that could cause synchronization job errors for asset tags with invalid **Asset Category** values.
MPS-51	An issue has been fixed that could cause files to fail to import if their filenames contain any URI delimiter characters (<>#%).
MPS-60	An issue has been fixed that could cause SharePoint jobs to fail when publishing empty values to **Multi-Value** or **Person and Group** fields.
MPS-69	The AutoCAD rendering module now supports AutoCAD 2019.1.
MPS-70	The Autodesk Inventor rendering module now supports Autodesk Inventor 2019.1.
MPS-162, MPS-14612	The quality of renditions created by the Teigha DWG rendering module that contain hatches have been improved.
MPS-247	When creating a new import package, Meridian Portal import profiles are now hidden.
MPS-387	The Teigha DWG rendering module has two new options **Use line weights** and **Scale line weights** that can be enabled to improve the fidelity of drawing renditions when a plot style table file is specified.

Reference	Description
MPS-453, MPS-14327	The **XOD Resolution** document property described in [Editing the rendition properties](#) is now applied to rendition generation as well as to viewing.
MPS-458	The Autodesk Inventor rendering module has a new option name **Transparent background** that when enabled, renders image backgrounds as transparent, which reduces rendition file size as described in [Configuring the Autodesk Inventor rendering module options](#).
MPS-14076	The Teigha DGN and Teigha DWG rendering modules now include Open Design Alliance Teigha 2019.
MPS-14286	An issue has been fixed that could cause synchronization jobs to fail after deleting one folder and then renaming another folder to the name of the deleted folder.
MPS-14326	The Office rendering module is no longer blocked by an authentication dialog box when generating renditions from a vault that has the **Authenticate logon credentials with the operating system** option enabled.
MPS-14727, MPS-14499, MPS-14254	An issue has been fixed that could prevent renditions from being exported to the file system.
MPS-14813	The Office rendering module now supports Office 2019.
MPS-14814	The SolidWorks rendering module now supports SolidWorks 2019 SP0.
MPS-15125	An issue has been fixed that could cause thumbnails to be unnecessarily regenerated for documents with renditions.
MPS-15368	An issue has been fixed in the Teigha rendering module that could cause arrowheads to not appear in renditions.
MPS-15440	An issue has been fixed that could cause export packages sent to Meridian Portal to fail if the package path is too long.
MPS-15816	An issue has been fixed that could cause annotations to not be saved for documents that are published unrendered (source file).
MPS-15838	The default value for the **Timeout** option of a publishing job has been increased from 60 seconds to 180 seconds.
MPS-15936	An issue has been fixed in Meridian Explorer synchronization jobs that could cause the error **Violation of UNIQUE KEY constraint 'IX_UserName'. Cannot insert duplicate key in object 'dbo.User'**.
MPS-15938	Packages may now be transferred with the FTPS protocol.
MPS-16024	The name of a document in SharePoint is now updated if the name is changed in Meridian prior to publishing a new revision.
MPS-16195	The AutoCAD and MicroStation rendering modules have been updated with ODA Platform 2019 Update 1.

Reference	Description
MPS-16865	An issue has been fixed that could cause Meridian Explorer synchronization jobs to fail if a document has an invalid modification date.
MPS-18560	The AutoCAD rendering module now supports AutoCAD 2020 and its vertical industry editions except Raster Design.

Release 2018 R2

Meridian Enterprise 2018 R2 was released on July 6, 2018.

The following topics comprise the release notes for Meridian Enterprise 2018 R2.

What's New In Meridian Enterprise 2018 R2

The major themes of Meridian Enterprise 2018 R2 are:

- Autodesk 2019 products support
- PDFTron viewer improvements
- Meridian Portal integration improvements
- PowerWeb functionality and usability improvements
- Scalability improvements

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

Reference Materials

Administration Improvements

The following improvements have been made to the administration of Meridian Enterprise:

Administration improvements

Reference	Description
MRE-1429	When the **Hide documents and folders from users with insufficient privileges** option is enabled for a vault as described in Viewing and editing vault properties and the user does not have the **List Content** privilege for a folder, the folder is now hidden entirely. Previously it was shown with a lock icon and the user could not view its contents.

Reference	Description
MRE-2601	An AutoVue server deployment can now be used to generate thumbnail images, which greatly expands the compatible file types. It is made possible by a new 32-bit version of the Task Server that is included in the server installation package. The new method can be enabled with a new registry value **UseThumbnailTask** and a new value for **DisableThumbnailUpdate** as described in HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\WebLink.
MRE-4580	A new client registry value **UseCurrentHost** has been added that simplifies configuration of Meridian web servers that are deployed outside the LAN. For more information, see HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager View Control2\Settings.
MRE-4830	An issue that can cause Windows Search integration on Windows Server 2016 to fail has been fixed. **Note:** Upgrading from a prior operating system version requires rebuilding the Windows Search indexes: 1. Before rebuilding the indexes, disable vault content indexing as described in Configuring content indexing. 2. Rebuild the Windows Search indexes as described in Building and maintaining a content index. 3. Restart indexing after the indexes are rebuilt.
MRE-5338	In Meridian Enterprise Server Administration Console, site cache servers may be assigned as preferred for one or more network subnets as described in Configuring site cache servers. The site cache server will then appear with the prefix **Preferred:** in the list of available site cache servers from which users may select as described in Configuring a site cache connection.
MRE-5373	A new setting **Synchronize lookup tables** has been added in Meridian Enterprise Server Administration Console that can be used to schedule a task to synchronize the Meridian Portal lookup tables from the linked Meridian Cloud vault as described in Viewing and editing the connectivity settings.
MRE-5409	In Meridian Enterprise Server Administration Console, users must now be members of the Application Administrators group described in Configuring global permissions to view the audit log.
MRE-5515	An issue that could cause Meridian Enterprise 2018 client applications to produce the error "RPC Server Unavailable" when opening vaults hosted on Windows Server 2012 R2 has been resolved.
MRE-5572	In Meridian Enterprise Server Administration Console, a new permission **Add Comments** has been added as described in Appendix G: Security Permission Descriptions. This permission provides more control over comment creation in Meridian Explorer.

Reference	Description
MRE-5619	Performance of PowerWeb has been improved for deployments where no Meridian Enterprise Server computer is deployed and the **Computer running the Enterprise services** option of the **EDM Server** service is empty as described in Configuring the connection to Meridian Enterprise Server. A new client registry value **DisabledFeatures** has been added to the following registry key that when set to **0x000c0000** (hexadecimal), prevents the PowerWeb from attempting to connect to a Meridian Enterprise Server computer. `HKEY_LOCAL_MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\Client`
MRE-5680	Performance of the Hypertrieve database engine has been greatly improved when processing queries and transaction changes are pending.
MRE-5772	In PowerWeb, an issue with creating new documents that could result in new folders being given the underscore character (_) as a name has been resolved. Internally, property changes that are applied to the Field-Path definition are set later in the transaction. A new Meridian web server registry value **ApplyMetadata** has been added for backward compatibility as described in HKEY_LOCAL_ MACHINE\Software\Cyco\AutoManager Meridian\CurrentVersion\WebLink.

For more information, see *Accruent Meridian Enterprise Administrator's Guide.*

Application Link Improvements

The following application link improvements have been made:

Application link improvements

Reference	Description
MRE-5375	The Autodesk Inventor application link now supports Autodesk Inventor 2019.
MRE-5412, MRE-5852	The MicroStation application link now supports attribute tag extraction prefixes and postfixes similar to the AutoCAD application link as described in Configuring tag name prefixes and suffixes. Tag type and tag value filters are also supported.
MRE-5458	In AutoCAD Plant 3D, attempting to run scripts that update title blocks in remote mode (not supported) now show a more descriptive error message.
MRE-5595	The AutoCAD application link now supports AutoCAD Raster Design 2019.
MRE-5599	The AutoCAD application link now supports AutoCAD 2019.
MRE-5681	The Autodesk Revit application link now supports Autodesk Revit 2019.
MRE-5741	The performance and stability of creating many asset tags from AutoCAD drawing tags as described in Configuring the AutoCAD link has been greatly improved.

Reference	Description
MRE-5815	The **TitleBlockDateFormat** setting described in <u>Formatting attribute date values</u> is now applied when reading from title blocks as well as when writing to title blocks in order to better support Remote mode across locales.
MRE-5829	A new title block setting **TitleBlockDateFormatProperty** has been added to support scenarios where drawing title block date/time values must be formatted differently for each title block on a per drawing basis. For more information, see <u>Formatting attribute date values</u>.
MRE-5946	A new registry value **ReleaseNewCivil3DDataShortcuts** has been added to the AutoCAD Civil 3D application link. It can be set to automatically release data shortcuts from their workflows when they are imported to the vault by working folder synchronization.

For more information, see *Accruent Meridian Enterprise Configuration Guide* and *Accruent Meridian Enterprise User's Guide*.

Client Improvements

The following improvements have been made to the Meridian Enterprise client applications:

Client improvements

Reference	Description
MRE-2512	In PowerWeb, the order and visibility of navigation view columns may now be configured per user as described in <u>Working with Navigation views</u>.
MRE-2524	In Application Integration in Remote mode, selecting multiple documents is now possible. Previously, only a single document could be selected.
MRE-2716	In PowerWeb, it is now possible to compare master and project copies as described in <u>Showing master and project copies</u>.
MRE-3646	In PowerWeb, the **Transfer to Project** command is now available as described in <u>Copying a project copy to another project folder</u>.
MRE-4207	In PowerWeb, the **Lock Master Document** command is now available as described in <u>Locking a master document</u>.
MRE-4403	In PowerWeb, the current workflow status, to-do person, and lock status are shown in a tooltip when the mouse pointer is hovered over a document in navigation views.
MRE-4803	In PowerWeb, when a user selects a document to which they do not have access and the vault option **Hide documents from users with insufficient privileges** is enabled as described in <u>Viewing and editing vault properties</u>, the access denied message is shown in the detail pane instead of in a dialog box.

Reference	Description
MRE-4819	The PowerWeb **Quick Find** command described in Using Quick Find now provides a drop-down list of Key Find properties for easier searching similar to PowerUser.
MRE-4863	In PowerWeb, the **Select Folder** dialog box is no longer shown when importing documents as described in Importing files using drag and drop. They are imported into the current folder, which must be selected before beginning the import.
MRE-4946	In Meridian Explorer, property search now supports multiple words and phrases combined by the AND operator as described in Searching in document properties.
MRE-4954, MRE-4955	In PowerWeb, right-clicking an item in a navigation view now also selects the item similar to the behavior of PowerUser. Previously, the selected item could only be changed by left-clicking. Selecting additional items for the same operation does not change the selected item.
MRE-4957	In PowerWeb, the current document may now be set similar to Windows Explorer. That is, by clicking any column in the row of the desired document within a navigation view. The row will highlight as you hover the mouse pointer over it so that you can select the correct document. It's not longer necessary to click only the document name.
MRE-4958	In PowerWeb, a new ribbon item **Start Quick Change For** has been added that can be used to start a quick change workflow for a specified user as described in Understanding document workflow types.
MRE-5030	In PowerWeb, if a document is not currently in a workflow, the text in the **Workflow Diagram** view described in Viewing the current workflow now reads **This document is not currently in a workflow** instead of **No data to view**.
MRE-5214	In PowerWeb, ribbon groups are hidden if the commands that they contain have all been disabled for the current scope as described in Understanding scopes.
MRE-5236, MRE-5793	In PowerWeb, double-clicking a document type that has a custom workflow assigned to it will now show a dialog box that lists the available workflow transitions for selection before the document is downloaded to the PC as described in Downloading documents.
MRE-5257, MRE-5261	In PowerWeb, files may now be imported by dragging and dropping them on the PowerWeb window, similar to Windows Explorer and as described in Importing files using drag and drop. Depending on the current folder or document, the number of files dropped, and their file extensions, the user is prompted to select a valid action to import the files: **Attach As Hybrid**, **Attach Rendition**, **Replace Content**, **Replace Content and Rendition**, or **Import Documents**.

Reference	Description
MRE-5258	In PowerWeb, the **Add Document** command has been renamed to **New Document** and the wizard no longer prompts for an existing file because existing files can more easily be imported using drag-and-drop as described in Importing files using drag and drop. This command is now for creating new documents from a template as described in Creating a new document from a template.
MRE-5317	In PowerWeb, when linking a folder to a Meridian Portal project, users may now create a new project as described in Linking folders to Meridian Portal.
MRE-5338	In Application Integration configuration, a site cache server may be selected that has been specified as preferred by a system administrator for the current IP address of the PC as described in Configuring a site cache connection.
MRE-5346	In PowerWeb, when the user links a folder to a Meridian Portal project as described in Linking folders to Meridian Portal, the project name is now shown on the property page of the folder with a hyperlink button that will open the project.
MRE-5394	In PowerWeb working in Remote mode as described in Understanding Offline mode and Remote mode, when the Meridian web server is configured with a different locale than the client, FLOAT, DOUBLE, and DATE property values are now displayed correctly.
MRE-5492	The built-in navigation view **Under Revision By** has been removed. It was retained only for backward compatibility with Work Isolation Mode, which has been deprecated. Users may still see similar data in the **All To-Do Lists** view.
MRE-5490	In PowerWeb, the **Find in This Folder** command is available in the **Search** ribbon regardless of the currently selected item and the available scopes.
MRE-5493	In PowerWeb, a new user profile setting **Datalist** has been added that, if set to **1**, enables an alternative drop-down control for lookup lists that provides type-ahead value matching as described in Deploying standard preferences.
MRE-5522	In PowerWeb, creating a project copy in a folder as described in Copying a master document to a project folder for which the user does not have access (**List Content** privilege) will cause errors but the copy will succeed the same as it does in Meridian PowerUser. Previously, the copy would fail.
MRE-5564	In PowerWeb, date formatting is now controlled by a new **Locale** setting in the user's preferences as described in Setting personal preferences. It was previously determined by the default format of the selected Windows locale.
MRE-5636	The **Copy With References** dialog box described in Copying a document has a new option **Go to copied assembly**. If enabled, when the user closes the dialog box, they will be redirected to the copy that they just made.
MRE-5652	In PowerWeb, an **OK** button has been added to the **Columns to Show** dialog box has been improved as described in Working with Navigation views.

Reference	Description
MRE-5673	In PowerWeb, the error handling has been improved when files are imported using drag-and-drop onto an existing document that is locked or read-only as described in Importing files using drag and drop.
MRE-5712	In PowerWeb, a new option **Include Connected Assemblies** has been added to the **Copy With References** command to make it functionally equivalent to the same command in PowerUser as described in Duplicating references. However, the **Select Folder** dialog box for choosing the destination of the copies has not been implemented in this release. This will be resolved in a future release. The copies will be made in the current folder unless custom scripting has been implemented to do so as described in DocCopyMoveEvent_SelectTarget event.
MRE-5765	In PowerWeb, better error messages are shown when a user attempts to import files to an invalid folder as described in Importing files using drag and drop. .
MRE-5769	In PowerWeb, drag-and-drop import now works with navigation views as well as the **Folders** view as described in Importing files using drag and drop. The **Select Folder** dialog is shown for the user to select the destination folder.
MRE-5793	In PowerWeb, the electronic signature dialog box now allows the user to delegate work on the document to another person as described in Signing documents.

For more information, see *Accruent Meridian Enterprise User's Guide.*

Configuration Improvements

The following improvements have been made to the configuration of Meridian Enterprise:

Configuration improvements

Reference	Description
MRE-4875	In Meridian Enterprise Server Administration Console, a new option **Show in this view** has been added to the **PROPERTY PAGES** configuration page of Meridian Explorer views as described in Creating and editing detail page layouts.
MRE-5205	A new PowerWeb user profile setting **SelectUserDialogThreshold** has been added that determines the number of users at which to show an advanced **Select User** (to-do) dialog box for workflow transitions as described in Deploying standard preferences.
MRE-5372	A new option **Use Enterprise Server lookup table** has been added to external table queries in Meridian Enterprise Configurator as described in Creating and editing external data queries. If enabled and an existing lookup table is selected, the values of the table are shown to users for selection in the Meridian clients. This allows values to be standardized for both Meridian Enterprise and Meridian Portal.

Reference	Description
MRE-5545	A new folder privilege **Link to Portal** and a new document privilege **Send to Portal** have been added to secure data exchange with Meridian Portal. For descriptions of all the security privileges, see Security privilege descriptions.
MRE-5794	The **Require electronic signature** option described in Configuring electronic signatures for workflow definitions is no longer available for custom workflow transitions that originate from the **Released** state. No changes to the document are yet possible and so the signature would be meaningless.
MRE-5805	Automatically creating asset tags as described in Configuring the AutoCAD link no longer fails after the first 250 tags.

For more information about these improvements, see the *Accruent Meridian Enterprise Configuration Guide.*

Customization Improvements

The following improvements have been made to the Meridian Enterprise customization features (VBScript and .NET API):

Customization improvements

Reference	Description
MRE-5180	The **DocCADLink_BeforeWriteMTBProperties** and **DocCADLink_ AfterReadMTBProperties** events are now available in remote mode as described in About the CAD link events.
MRE-5421	A new VBScript event **VaultEvent_ChangeScope** has been added for use by PowerWeb only. It is intended to be used in vaults that contain many projects and by users who should be limited by scopes to only work on those projects to which they are assigned. The procedure can define a temporary, virtual scope based on an existing scope as a template. For more information, see VaultEvent_ ChangeScope event.
MRE-5565	A new VBScript event **VaultEvent_NewProfile** has been added. It occurs after a new profile file is created for a user and when they open a vault for the first time in PowerWeb. For more information, see VaultEvent_NewProfile event.
MRE-5566	A new VBScript property **User.Profile** has been added. The property provides read-write access to the user's personal preference settings in PowerWeb. Settings can be changed in the **VaultEvent_NewProfile** event. For more information, see Profile property.

For more information, see the *Accruent Meridian Enterprise VBScript API Reference Guide* or the *Accruent Meridian Enterprise .NET API Reference Guide.*

Viewer Improvements

The following improvements have been made to the Meridian Enterprise viewer:

Viewer improvements

Reference	Description
MRE-4808	A new property **XOD Resolution** has been added to the **Rendition Properties** set described in Editing the rendition properties. It can be set from a lookup list by a user or by VBScript to optimize the resolution and fidelity of renditions viewed with PDFTron. **Note:** This setting has no effect on renditions generated by Publisher as the result of a workflow transition. Viewing PDF files generated from JPG images may have unexpected results.
MRE-4881	The PDFTron **Comments** pane is available again in PowerWeb as described in Annotating a document and in Meridian Explorer as described in Annotating a document. It was unavailable in release 2018.
MRE-4890	The PDFTron viewer now supports marquee (fence) zoom mode as described in Changing the viewing area.

What's New In Meridian Explorer 2018 R2

The new features and improvements of Meridian Explorer include:

What's new in 2018 R2

Reference	Description
MRE-4890	The PDFTron viewer now supports marquee (fence) zoom mode as described in Changing the viewing area.
MRE-4894	A new setting **HomePageLargeViewIcons** has been added that when set to true, displays view icons at a larger size for better visibility on mobile devices. For more information, see Customizing the user interface.
MRE-4946	Property searches now support multiple words and phrases combined by the AND operator as described in Searching in document properties.
MRE-5053	The Meridian Explorer URL now supports the parameter **ID**. It can be used to specify one or more document IDs (separated by the semicolon character) to show in a specified view as described in Composing view URLs.
MRE-5801	A new search operator **CONTAINS ALL** has been added to produce better results when searching for multiple words as described in Using advanced search.

What's New In Accruent Publisher 2018 R2

The new features and improvements of Accruent Publisher include:

What's new in 2018

Reference	Description
MRE-1185	A new option **Named fence** has been added to the Teigha DGN rendering module that, if set to the name of an existing fence object in a drawing, is used as the boundary of the plotting area as described in <u>Configuring the Teigha DGN rendering module options</u>.
MRE-4023	The **Update title blocks before rendering** option of rendering profiles is now supported for Office documents. However, the **BC Enterprise Server** service must be run in interactive mode as described in <u>Configuring Enterprise Server to not run as a service</u>.
MRE-5418	If enabled, custom properties of prior revisions are now published to the destination system. The **EnableCopyMeridianRevisions** option can be enabled as described in <u>Configuring the miscellaneous options</u>.
MRE-5853	The Autodesk Revit rendering module now supports Autodesk Revit 2019.
MRE-5854	The Autodesk Inventor rendering module now supports Autodesk Inventor 2019.

Meridian Enterprise 2018

Meridian Enterprise 2018 was released on February 15, 2018

The following topics comprise the release notes for Meridian Enterprise 2018.

What's New In Meridian Enterprise 2018

The major themes of the improvements in Meridian Enterprise 2018 are:

- PowerWeb (formerly known as the Meridian Web Client and PowerWeb) usability
  - Multi-language support
  - Assembly browser
  - **Copy with References** command
  - Working with AutoCAD Civil3D in combination with Local Workspace
  - Control how custom commands are applied to a folder and its contents
  - Support for the Google Chrome, Mozilla Firefox, and Microsoft Edge web browsers
  - Support for tag-tag references
  - AutoVue update
  - PDFTron enhancements:
    - Compare documents (side-by-side viewing)
    - Printing with watermarks
    - Redline exchange with Meridian Portal
- Site cache usability and performance
- Autodesk Revit link and Autodesk Civil 3D link usability
- Enterprise scalability and performance
- Meridian Portal integration and usability

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

Reference Materials

Features Deprecated In Meridian Enterprise2018

Meridian Enterprise has evolved considerably to keep pace with our customers' needs since its debut in the year 2000. We've also added many new features to keep pace with constantly evolving technology.

To best allocate our development and support resources, some older Meridian Enterprise features are deprecated in this release. These features have been selected either because they have been replaced by newer features with better functionality or because the technology used by the older features has become obsolete or cannot be maintained together with newer technology.

Following is a list of the deprecated features and their replacements.

Features deprecated in Meridian Enterprise 2018

Feature	Replacement
PowerUser 32-bit and 64-bit client applications	PowerWeb web client Continued use of PowerUser requires different licenses (product codes that begin with **M--DPC**). The remaining functional differences between PowerUser and PowerWeb will be resolved in future Meridian releases.
The **All vaults** and **Selected vaults** options in the **Find** dialog in PowerWeb.	Not planned.
AutoCAD link 32-bit client components	Not planned.

What this means for your organization is, effective on the date of release of Meridian Enterprise 2018, these features:

- Will not be developed any further, including fixing any known bugs.
- Will no longer be tested with each new release of Meridian Enterprise. Use them at your own risk.
- Might not be supported by other features in the software and without notice.
- Might be removed from the software in future releases and without notice.
- New support issues will not be supported by Accruent Technical Support or Accruent Professional Services. Any active issues will be resolved according to your current support level agreement.

If you have not done so already, we recommend that you make the following preparations at your earliest opportunity to minimize business disruption when you upgrade to this release:

- Train administrators and end users to stop using the deprecated features and to start using the replacement features.
- Modify the configuration of your environment to stop using these features.
- Migrate all data managed by these features to supported features.
- In the case of deprecated components, remove the components completely from your environment.
- Modify any related or integrated systems accordingly.

For expert professional assistance with planning, training, or implementing these changes, please contact your Accruent Partner or Accruent Professional Services.

For a list of additional features to be deprecated in future releases, see the Accruent knowledge base.

Administration Improvements

The following improvements have been made to the administration of Meridian Enterprise:

Administration improvements

Reference	Description
MRE-1987, MRE-2270	Portions of the EDM Server service have been rewritten to improve performance and to be more stable when starting, loading the cache, and stopping. The service name has changed from AutoManager EDM Server to BlueCielo EDM Server.
MRE-2669	A potential issue with incorrectly specified Oracle instance names was fixed.
MRE-3811	The site cache component is no longer required when installing Meridian Enterprise Server on a cluster node.
MRE-4194	Performing administration tasks on a particular vault (backup, restore, archive, Vault Consistency Wizard, and so on) no longer prevents users from working in other vaults.
MRE-4247, MRE-5026, MRE-5167	Vault activity is now sent to Accruent from Meridian PowerUser and PowerWeb by default. User names (related to workflow assignments, for example) and document names are encrypted during transmission for security. The data gathered cannot be linked to personally identifiable information. Customers may opt out of this feature when starting Meridian Analytics configuration for the first time after installation, an upgrade, or the setting is changed. The collected data will be analyzed to direct future development, training, and support.
MRE-4256	A new vault privilege **View Audit Log** has been added to control access to the audit log database with user privileges.
MRE-4281	The Meridian API Service that is required for Meridian Mobile is now included in the Meridian server installation package.
MRE-4418	The Vault Consistency Wizard now detects unexpectedly large string property values (>1 MB) and reports them in the output file to aid with troubleshooting.
MRE-4537	Vault access by users is now possible while Active Directory accounts are being synchronized with Meridian Enterprise Server.
MRE-4564	Windows Server 2008 is no longer supported.
MRE-4569	Meridian Enterprise Server now requires Microsoft .NET Framework 4.6.1.
MRE-4593, MRE-5231	The Accruent IFilter now includes Open Design Alliance Teigha 4.3.2, which supports the AutoCAD 2018 file format.
MRE-4656	Package export type publishing jobs now support mapping the source Meridian Enterprise document properties to destination Meridian Portal project repository properties.

Reference	Description
MRE-4674	The Hypertrieve 3 database engine types have been removed from the New Vault Wizard in Meridian Administrator. Only Hypertrieve 5 database engine types may now be selected.
MRE-4707	A new registry value **WorkSpaceNoUserName** has been added to the `HKEY_LOCAL_MACHINE` branch of the Meridian web server registry that, if set to 1 and the **WorkSpaceLocation** value is also set, will cause Application Integration to clean up temporary files from the local workspace on the web server for all PowerWeb users.
MRE-4726, MRE-5045	A new server registry value **LargeSelectionThreshold** has been added that, when set to a positive number, specifies the minimum number of documents in a static collection at which to use a special algorithm for when deleting them. This algorithm provides better performance for deleting large static collections. However, orphaned document references to the collections must be cleaned up manually. Clean-up can be performed with a new option **Clean up deleted static collections after successful check** in the Vault Consistency Wizard or a new command line tool `AMCleanDSC.exe` that is installed on the server.
MRE-4799	The Accruent Email Manager no longer requires separate, optional licenses. Its installation package is included with Meridian Enterprise. The *Accruent Email Manager Configuration Guide* is now included in the *Accruent Meridian Enterprise Administrator's Guide.*
MRE-4823	Proxy server connection settings may now be configured for the site cache client as described in the *Accruent Meridian Enterprise User's Guide*.
MRE-4898	Microsoft SQL Server 2017 is now supported.
MRE-4936	PowerWeb now supports connection to a site cache server using single sign-on account credentials for the same OpenId authentication provider as the customer's Meridian Portal tenancy.
MRE-4941, MRE-4942	When creating view filters in Meridian Administration Console, selecting a property with a different data type now refreshes the operator list to show the valid operators. Filters now support integer and date/time properties.
MRE-4949, MRE-5012, MRE-5402	In the Meridian Portal integration, the original document number is now sent to Meridian Portal. The property name is specified in the **Document number property** option of the repository in Meridian Administration Console. The value appears as the **Master Document Number** property of documents in Meridian Portal. Documents created in Meridian Portal and sent in packages to the vault are assigned GUID values that should be overwritten by new values assigned by the vault in the `ImportPackage_AfterReadProperties` event handler.

Reference	Description
MRE-5027	New options have been added to the installation packages to enable connection to a site cache server using the OpenId credentials that are specified for a given Meridian Portal tenancy. New command line options OPENID and TENANTNAME have been added to install the client software unattended with the connection parameters preconfigured. New client registry values **UseOpenIdConnectAuthentication**, **M360Tenant**, and **UseWorkspace** have also been added to store the parameters and provide for administrative changes. **Note:** Existing setup scripts (`*.iss`) will not work with this release and must be updated.
MRE-5033	A new value **IssuerUri** has been added to the client registry to support OpenId authentication by the site cache client.
MRE-5048	The audit log database now contains the correct path of a deleted folder or document in the **ObjectPath** column.
MRE-5079, MRE-5175	A new client registry key **AVLandscape** has been added that can be configured to rotate watermarks on specific printers.
MRE-5233	The Meridian Analytics Data Collector Framework is now installed by default with the server components.
MRE-5275	The Application Integration component may now be deselected during server installations.
MRE-5351	A new administrative role **User Administrators** has been added to the Meridian Enterprise Server configuration to specify the users that may manage users and groups.
MRE-5485	The Active Directory User Synchronizer tool configuration file `ADSyncUsersConfig.ini` is unexpectedly removed during an upgrade from version 2017R2 to 2018. After the upgrade, restore the file from backup to retain any prior settings. This issue is expected to be resolved in a future release.

For more information, see *Accruent Meridian Enterprise Administrator's Guide.*

Application Link Improvements

The following application link improvements have been made:

Application link improvements

Reference	Description
MRE-891	A new command **Family Inspector** has been added to the Revit link that, when invoked, displays information about all of the family files used in the current model and highlights any changed files.

Reference	Description
MRE-2825	The Revit link now requires the project central file to reside in a shared workspace in vaults created by Meridian 2018 or higher. Vaults created in prior versions do not have this requirement. The **ReleaseSynchronizedCentral** setting, **SharedCentralWorklistLockID** setting, and **Release Shared Central** command are not supported in new vaults but are supported in existing vaults for backward compatibility.
MRE-3561	The email link configuration settings now apply to messages and their attachments that are imported using the Meridian client applications by drag-and-drop. Previously, that import method was not configurable.
MRE-4144	The Revit link now supports the **Where Used** and **Assembly Structure** views of the Reference Explorer in Remote mode with PowerWeb.
MRE-4544	The Microsoft Office application links now support a site cache in Remote mode.
MRE-4559	SolidWorks SP 0.1 is now supported.
MRE-4591	The AutoCAD Electrical link provides new commands in the **BlueCielo** menu and the **BlueCielo** ribbon for project management similar to the AutoCAD Plant 3D link.
MRE-4596	A new client registry value **ReadOnlyReferences** has been added to the SolidWorks link that, if set to **1**, forces the SolidWorks system option **Don't prompt to save read-only referenced documents (discard changes)** to enabled. This improves the performance of saving SolidWorks models in Remote mode.
MRE-4685	AutoCAD 2018.1 is now supported.
MRE-4686	Autodesk Inventor 2018.1 is now supported.
MRE-4687	Autodesk Revit 2018.1 is now supported.
MRE-4720	AutoCAD 32-bit editions are no longer supported by the AutoCAD link.
MRE-4721	AutoCAD 2013 and AutoCAD 2014 are no longer supported.
MRE-4722	The Autodesk Inventor and SolidWorks links may no longer be installed by the 32-bit Meridian client installation package. They are supported only by the 64-bit Meridian client installation package.
MRE-4750	The **Aliases** setting of title block synchronization now accepts the asterisk (*) wildcard without any additional characters.
MRE-4862	A new client registry value **Civil3DSyncWorkingFolder** has been added that if set to **1**, synchronizes the entire working folder that is set in AutoCAD Civil 3D. If set to 0 (default) only the data shortcuts folder is synchronized.

Reference	Description
MRE-5096	A new client registry value **RealDwgForceValidity** has been added that if set to **1**, makes the **Sync Properties to File** command compatible with AutoCAD Release 14 and older drawings but causes drawing imports to fail if the title blocks are synchronized also. Setting the value to **0** allows drawing imports to succeed but the command is then not compatible with older drawings.
MRE-5138	The **NewLibraryComponentDocType** setting of the Autodesk Inventor link now works correctly in Remote mode.

For more information, see *Accruent Meridian Enterprise Configuration Guide* and *Accruent Meridian Enterprise User's Guide.*

Client Improvements

The following improvements have been made to the Meridian Enterprise client applications:

Client improvements

Reference	Description
MRE-230, MRE-4998, MRE-5084, MRE-5550,	The **Copy With References** and **Derive With References** commands are now available in PowerWeb.
MRE-574	PowerWeb provides a new Reference Explorer similar to the PowerUser for viewing and navigating assemblies.
MRE-1213	PowerWeb now supports the languages listed in the *Accruent Meridian Enterprise Supported Software* document for this version.
MRE-2859	PowerWeb now supports a new **Tags** property page that can be used to link tags to other tags.
MRE-4222	The Meridian PowerUser 32-bit and 64-bit client applications are being deprecated but are still included in the client installation packages in this release. Continued use requires new deprecated feature (product codes that begin with **M--DPC**) licenses. We strongly recommend that all customers migrate their users to PowerWeb. For more information, see [Features to be deprecated in future releases]().
MRE-4384	PowerWeb now supports the Google Chrome, Mozilla Firefox, and Microsoft Edge web browsers. For the specific versions supported, see the *Accruent Meridian Enterprise Supported Software* document for this Meridian Enterprise release.

Reference	Description
MRE-4410, MRE-5256, MRE-5449	A new PowerWeb user profile setting **AddRoleAssignmentsInDialog** has been added that, when set to **1** in the profile file on the web server of a user, will show an alternative dialog for assigning roles to a folder. This dialog is more convenient in environments that have thousands of user accounts in the Meridian Enterprise Server user database and it allows the user to filter the list of groups and users before selecting names to assign to a role. The performance of loading thousands of user names in the standard workflow and role assignment dialog boxes has also been improved.
MRE-4444	PowerWeb now supports batch processing in more commands: • Workflow transitions • **Set Property Value** • **Delete** • **Download** • **Unlock Document** • **Copy Document** • **Change Document Type** • **Issue New Filename** • **Convert to Hybrid** • Project copy operations • Custom commands • Electronic signatures
MRE-4531	In PowerWeb, the current site cache server can be selected from among any of the servers registered on the Meridian Enterprise Server computer. This allows the user to select the closest site cache server for their current geographical location, with a mobile PC, for example.
MRE-4645	In PowerWeb, simple forms now set the user focus to the input field of the form, for example, when creating a folder, renaming a folder or document, modifying a revision number, and entering comments. Previously, the user had to click in the input field first.

Reference	Description
MRE-4649, MRE-4651, MRE-4652, MRE-4653, MRE-4654, MRE-4656	Provides basic integration of Meridian project folders with the project repository feature in Meridian Portal. This supports collaboration between users internal to the organization and external users. The workflow is: 1. Meridian users link folders to Meridian Portal project repositories (**Link to Portal** command). 2. Meridian users select and send documents to Meridian Portal (**Send to Portal** command). 3. Meridian Portal users edit, review, and approve documents in the repositories. 4. Approved documents can be imported back into the Meridian folders by a background task for release as master document revisions. The integration is designed to be simple and require minimal configuration (including property mapping) but allow more extensive integration with existing workflow processes when needed. In this release, no privileges are implemented to avoid requiring a vault upgrade and will be added in a future release.
MRE-4652	Existing Meridian project folders may now be linked to existing Meridian Portal projects.
MRE-4688	In PowerWeb, the selected item is now highlighted in the navigation view for better recognition.
MRE-4789	The default file extension for CSV reports is now `.csv` so that the report can be immediately opened in Microsoft Excel and the file extension does not need to be changed.
MRE-4790	PowerWeb now works similar to PowerUser when a document is double-clicked. If the document is not already under change by the user, they are prompted to start a workflow.
MRE-4828	A new option **Save credentials** has been added to the site cache client connection settings. If enabled, the user's credentials are stored encrypted in the registry of the PC and reused to connect for the next browser session.
MRE-4846	A new web server registry value **Domain** has been added that, when set to a valid domain name, is used as the host domain to load external property pages in the client applications.
MRE-4866	Renditions may now be opened in the Windows registered application by the new **Open Rendition** command.
MRE-4872	A new web server registry value **QuickFindMultiWordAll** has been added that can be set to make Quick Find searches in PowerWeb behave like PowerUser, matching all of the entered keywords instead of any of the entered keywords.

Reference	Description
MRE-4966	PowerWeb and Meridian Explorer each show a new **Meridian Wishlist** item on the user's menu that can be clicked to submit product improvement suggestions directly to Accruent. The item can be hidden by a new web server registry value **AhaPortal** described in the *Accruent Meridian Enterprise Administrator's Guide* and the *Accruent Meridian Enterprise Server Administrator's Guide*, respectively.
MRE-5056	PowerWeb now supports references in custom commands.
MRE-5064	The **All vaults** and **Selected vaults** options have been removed from the **Find** dialog in PowerWeb to prevent incompatibility with other new features.
MRE-5085	PowerWeb now shows a progress bar when it synchronizes the vault in Remote mode.
MRE-5098	An animated icon and dynamic status text are now shown in the lower left corner of property pages and wizard pages while property values are sent to the server or recalculated. This is to provide feedback to users on slow systems that the system is actively working and is not hung.
MRE-5155	In PowerWeb user preferences, the **Document Transfer Options** button is now disabled if **Site cache mode** is enabled.
MRE-5232	In PowerWeb, the ribbon menu is now always enabled by default. If disabled, the following commands and actions are unavailable: • Opening documents by double-clicking or pressing Enter • **Assembly Structure**, **Where Used**, and **Derivatives** • Invoking the **Start Quick Change**, **Release Quick Change**, **Revoke Quick Change**, **Upload**, **Download**, **Set Property Value**, and custom commands on navigation view nodes. These commands are not supported by the shortcut menu.
MRE-5271	In PowerWeb, the **Unlock Document** and **Unlock Another User's Document** commands now unlock the documents from export packages as well as from briefcases if the user has the **Unlock from Briefcase** privilege.
MRE-5292	PowerWeb now supports the **Derive** and **Replace** commands when performed on batches without the ActiveX control installed on the PC.
MRE-5300	An issue has been fixed that caused PowerWeb to stop responding when a memo property was edited that contained a large amount of data. The editing session continues now but the user will be shown an **Invalid arguments** error and their changes in some properties may not be saved correctly. This is because PowerWeb is limited to sending a total of 24 KB of data to the server when properties are edited. This limit can be exceeded if the document type includes a large number of text properties or one or more memo properties that contain a lot of data. This limit may be raised or removed in a future release.

For more information, see *Accruent Meridian Enterprise User's Guide.*

Configuration Improvements

The following improvements have been made to the configuration of Meridian Enterprise:

Configuration improvements

Reference	Description
MRE-4329	A new registry value **ReuseExistingObjects** has been added to prevent modifying workflow definitions by importing a vault configuration (`.met`) file while there are active workflows.
MRE-4389	A new setting **Execute recursively if applied to folders** has been added to custom commands that, when enabled, allows the command to be run on a selected folder and the command will execute for each document in the folder and its sub-folders.
MRE-4725	The **Paste Multiple** command may now be included in scopes.
MRE-4848	The Accruent Industry Template configuration example may now be installed with the EDM Server service components. Instructions to complete the installation can be found in the folder `C:\Program Files\BC-Meridian\Program\Industry Template`.
MRE-4858	A new Office link setting **AskReleaseQuickChangeOnClose** has been added that, when set to **1**, prompts PowerWeb users to release documents from a Quick Change workflow when the documents have been changed and saved in their native application. Users without the privilege to change workflow states will be redirected to the document in Meridian Explorer.

For more information about these improvements, see the *Accruent Meridian Enterprise Configuration Guide.*

Customization Improvements

The following improvements have been made to the Meridian Enterprise customization features (VBScript and .NET API):

Customization improvements

Reference	Description
MRE-3488	A new VBScript event **DocGenericEvent_SelectTarget** has been added to support selection of destination project folders when a new document is created.
MRE-4012	A new VBScript event **DocProjectCopyEvent_ProjectCopyExist** has been added. It occurs when an attempt is made to create a project copy and another project copy already exists.
MRE-4653	A new VBScript method **Document.SendToPortal** has been added that sends a document to the Meridian Portal project repository to which the document's parent folder is linked.
MRE-4698	PowerWeb now triggers the **DocGenericEvent_DocumentFolderSelected** event during the **Release As Master** command when releasing documents that were created anew in the project folder.

Reference	Description
MRE-4791	The VBScript function **GetUsers** now returns results sorted in ascending alphabetical order.
MRE-5021	A new VBScript event **DocCopyMoveEvent_SelectTarget** has been added to support selection of destination project folders when a document is copied or moved.
MRE-5057	Using the VBScript expression **Client.ImportType = AS_IT_NONE** to determine whether a custom property page is being shown in a wizard now works correctly for folders in PowerWeb.
MRE-5330	A new VBScript event **ImportPackage_AfterReadProperties** has been added to support documents imported from packages.

For more information, see the *Accruent Meridian Enterprise VBScript API Reference Guide* or the *Accruent Meridian Enterprise .NET API Reference Guide.*

Viewer Improvements

The following improvements have been made to the Meridian Enterprise viewer:

Viewer improvements

Reference	Description
MRE-3367	The Accruent (ActiveX) viewer now supports site caches in PowerWeb.
MRE-3500	The PDFTron viewer now supports printing watermarks that are defined in VBScript.
MRE-4311	AutoVue 21.0.1 is included in this release and supports the AutoCAD 2018 file format.
MRE-4614	The PDFTron viewer now supports synchronized, side-by-side viewing by the **Compare** command in PowerWeb and in Meridian Explorer.
MRE-4706	A new client registry value **UseExternalAutoVue** has been added that, if set to **1** (default), will use AutoVue 3D if it was installed separately from the Meridian installation package. If this value is **0**, AutoVue 3D will not be used.
MRE-4738	A new client registry value **UseNativeCompareEngine** has been added that, when set to **1** or absent, will always compare documents using the AutoVue viewer (if installed). If this value is **0** (default), documents are initially compared using the Accruent viewer. The user may then switch to the AutoVue viewer by clicking the **Compare** button in the viewer toolbar.

Reference	Description
MRE-4865	A new Meridian web server registry value **RemoveLinkAnnotations** has been added that, when set to **1**, removes hyperlink annotations from intermediate XOD files that are used to view documents with the PDFTron viewer. This setting is intended to improve the viewing performance of PDF files that contain thousands of hyperlinks that are not expected to be used.
MRE-4948	SolidWorks eDrawings 2018 is now supported.
MRE-5011	Redlines (annotations) created by the PDFTron viewer in PowerWeb and in Meridian Explorer are now exchanged in packages sent to Meridian Portal.

What's New In Meridian Explorer 2018

The new features and improvements of Meridian Explorer include:

What's new in 2018

Reference	Description
MRE-4390	A new setting **LargeViewFileSizeToWarnInKb** has been added to the Meridian Enterprise Server file `WebConfigDto.dat`. It can be set to a threshold file size that, if exceeded, will show the user a warning dialog that viewing the file may take a long time.
MRE-4569	Meridian Explorer client PCs now require Microsoft .NET Framework 4.6.1.
MRE-4855	The Japanese language is now supported by the user interface.
MRE-4857	Fixed an issue in AutoVue client/server deployments that caused **There is no privilege to view this document** errors in viewer pages even though the document opened correctly by the **Open in viewer** command.
MRE-4953	The **Dashboard** page is now available to users that have claimed Explorer Standard licenses.
MRE-4966	A new item has been added to the **Other Options** menu in Meridian Explorer and in the Accruent Meridian Administration Console that can be clicked to submit product improvement suggestions directly to Accruent. The item can be hidden by a new configuration setting **AhaPortal** described in the *Accruent Meridian Enterprise Server Administrator's Guide*.

What's New In Accruent Publisher 2018

The new features and improvements of Accruent Publisher include:

Reference	Description
MRE-3907	The **Lock documents to package when sent** option of publishing jobs has been removed because its effect was redundant with other export package job options.
MRE-4311	The AutoVue Desktop Deployment rendering module now supports the AutoCAD 2018 file format, the AutoVue rendering module does not.
MRE-4460	The SharePoint system link now automatically approves newly published documents so that they are immediately available to users.
MRE-4593, MRE-5231	The Teigha DGN and Teigha DWG rendering modules now include Open Design Alliance Teigha 4.3.2, which supports the AutoCAD 2018 file format.
MRE-4655	If the **Do not Publish** action is set in a publishing job for a particular file extension, the source document is now unlocked regardless of whether the job succeeded.
MRE-4668	SharePoint 2010 and 2013 are no longer supported as publishing source or destination systems.
MRE-4670	New options have been added to the Acme rendering module to support font substitution.
MRE-4685	The AutoCAD rendering module now supports AutoCAD 2018.1.
MRE-4721	AutoCAD 2013 and AutoCAD 2014 are no longer supported.
MRE-4805	The Acme rendering module now includes Acme CAD Converter 8.9, which supports the AutoCAD 2018 file format.
MRE-4891	The Windows file system link has been improved to prevent **BIFF Stream error: Buffer size is less than entry length** errors when reading metadata from Excel files.
MRE-4924	Master documents in Meridian Explorer that are referenced by assembly parts that are included in an export package to Meridian Portal are now included in the package for reference. The master documents can be locked against change by the **Lock the master document during publishing** option of the publishing job.
MRE-5107, MRE-5108	The SharePoint system link now supports the **Person or Group** field type. Multiple values in SharePoint are supported if the Meridian values are separated by the semicolon character (;).
MRE-5357	The SolidWorks rendering module now supports SolidWorks 2018.

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