



# **SUPPORTED SOFTWARE**

2022 R2

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## Introduction

This document lists the supported applications and features of the Meridian Enterprise product suite for release 2022 R2. When new products or versions are released, this document is updated to include the new product or version. The latest revision of this document can be found on the [Meridian Technical Library](#). We publish this document to enable customers to plan for deploying Meridian Enterprise and the many applications that can be used in combination with it.

This document details the operating systems, applications, and languages that have been specifically tested and are supported for each of the products in the Meridian Enterprise product suite:

- Meridian Enterprise
- Meridian Asset Management Module
- Meridian Explorer
- Meridian Publisher

Unless otherwise noted, all Meridian Enterprise products are only supported when used together within the same versions of each other. Product versions cannot be mixed in the same installation. Beginning with release 2014, Meridian Enterprise, Meridian Explorer, and Publisher are installed by the same setup programs and each product is only compatible with the same release of the other products. Therefore, they are treated as a single system in this document in the applicable chapters.

In addition to the applications listed in this document, specific applications, versions, or configurations may have additional requirements that can be found in the *Administrator's Guide* or the *Release Notes* for the particular Accruent product. Moreover, some applications, versions, or combinations might be compatible with Accruent products but have not been tested by Accruent and are therefore not supported. In all cases, technical support from Accruent is only provided as described in your license agreement.

Unless specifically stated otherwise, this policy applies to all Accruent customers unless superseded by a different written and signed agreement between Accruent and the customer.

Some Accruent products can create automated processes in third-party applications such as Microsoft Office and AutoCAD. These applications and their licenses are not included with the Accruent products. Accruent is not responsible for the installation, operation, and licensing of third-party software.

## Current Support Life Cycle Status

The following table indicates the support level status of the supported versions as of the release date of version 2022 R2. These statuses apply to the products listed in [Introduction](#) and also to minor releases and service packs.

Pre-release and Beta versions are meant for evaluation and demonstration purposes only and should not be used for production purposes. Consequently, they are not supported.

The life cycle status of each Meridian Enterprise module version is the same as the corresponding Meridian Enterprise version.

### Meridian Enterprise support life cycle status

Product Version	Standard or Premium Support	Extended Support
2022	yes	not applicable
2021	yes	not applicable
2020	yes	not applicable
Older	no	yes

For descriptions of each support level and the level that applies to you, refer to your current Accruent support agreement or contact your Accruent Partner or Accruent account representative.

## Operating Systems

This article discusses the operating system versions supported by Meridian, including Windows, Windows Server, and mobile operating systems.

Microsoft releases new versions of the Windows operating systems every few years and also phases out older versions at a similar rate. Microsoft has formalized this policy in [Microsoft Support Lifecycle](#).

It is the general policy of Accruent to only support current Windows versions because testing and supporting Accruent products with specific Windows versions requires a considerable amount of time and resources. Accruent intends to support Windows operating systems during their Mainstream and Extended support phases. When an operating system enters the Self-Help support phase, it is no longer supported by Accruent. In that phase, it is not possible to get support from Accruent other than through the Accruent knowledge base.

### **Important!**

Existing Meridian Enterprise vaults created on computers running older Windows versions (Windows 2000, Windows XP, Windows Server 2003) cannot be used by any version of Meridian Enterprise running on Windows Server 2008 or Windows 7. Such vaults require a special upgrade procedure as described in [Vault incompatibility between Windows operating system versions](#) in the Meridian knowledge base.

## Notes about Operating Systems

### **Note:**

Changes in the Extended Support phase retirement date by Microsoft announced less than six months before the originally scheduled retirement date will not necessarily be followed by Accruent.

Support for Microsoft service packs is not addressed in this policy. For each version of Accruent software, specific service pack or additional requirements may apply depending on the version of Windows it is used with. These requirements are documented in the Release Notes document for each Accruent product version.

Unless otherwise specified, the listed operating systems are supported by Accruent products in this document with the following limitations:

- We recommend the 64-bit editions of Windows and Meridian be installed on the server computer, particularly if SQL Server or Oracle are installed on the same computer with Meridian (for demonstration or evaluation purposes only).
- Windows Server Core Edition is not supported unless noted in the following table.

- Accruent does not support any unlisted or Home edition of Windows as a valid business system.
- The workstation operating system variants are supported as server platforms only for demonstration and evaluation purposes unless noted otherwise below. In a production environment, a server operating system must be used.
- The viewer is supported on 32-bit computers only. The Meridian 64-bit clients can be configured with AutoVue Client/Server. For more information, see the *AutoVue* chapter of the *Meridian Enterprise Administrator's Guide*.
- While Accruent does not perform quality assurance testing with all virtualization systems (even those listed below) or all combinations of host and guest operating systems, running Meridian Enterprise software on any server or desktop virtualization technology is supported under the following conditions.

Virtualization technologies are designed to be transparent to the software that they host and not require any specific special effort from the software vendors for their use. Testing by Accruent has found that while this is largely true, systems deployed in a virtualized environment might have issues related to performance and communication with peripheral devices, other hardware components, networking, and security. Accruent will not take responsibility or provide support for such issues, unless it is proven that such issues are not caused by the use of virtualization software. Note that general comments, warnings and conditions associated with the use of virtualization applications are documented in our knowledgebase.

- Some third-party applications that are used for rendering are not compatible with all operating systems that Publisher is compatible with. When installed together with Meridian Explorer, we recommend that Publisher be installed on a dedicated computer running a version of Windows that is compatible with the third-party application and that Meridian Explorer be installed on a computer running Windows Server.

For example, AutoCAD is not compatible with Windows Server. Therefore, we recommend that Publisher and AutoCAD be installed on a computer running a supported workstation operating system and that Meridian Explorer be installed on a separate computer running a supported server operating system.

- Meridian Enterprise full-text search uses the content indexing feature of the operating system and is subject to the same performance, capacity, and accuracy limitations.

## Client (32-bit & 64-bit)

Please see the sections below for information about Client OS support.

## Mobile OS Requirements

Support requires installation of the Meridian API Service on the Meridian web server. The service is available in the installation package of Meridian Enterprise 2018 and later. It is available separately for older Meridian versions from the [Accruent Self Service Center](#). Installation instructions are included in the *Install the Meridian API Service* section of the *Meridian Enterprise Administrator's Guide* for version 2018 or higher and in the download package for older versions. The service is supported by Meridian Enterprise versions 2014 and later.

## Required Update for Windows Server 2012 R2

[Windows RT 8.1, Windows 8.1, and Windows Server 2012 R2 update: April 2014](#) must be installed.

## Note about Windows 10

Windows 10 is not supported as a server platform for any purpose.



## Supported Operating Systems Table

### Supported operating systems

Operating System	Meridian Enterprise	Meridian Explorer	Publisher
Windows 11	supported	supported	supported
Windows 10	supported	supported	supported
Windows 8.1	supported	supported	supported
iOS 9.3 and higher	Meridian Mobile only. See section above	<b>not supported</b>	<b>not supported</b>
iOS 6 and higher	<b>not supported</b>	<b>not supported</b>	<b>not supported</b>
Android 5.0 and higher	Meridian Mobile only. See section above	<b>not supported</b>	<b>not supported</b>
Universal Windows Platform 10.0 build 10240	Meridian Mobile only. See section above	<b>not supported</b>	<b>not supported</b>

## Client & Server (64-bit only)

We support the currently supported Windows Server versions supported by Microsoft. Please see the sections below for information about Windows Server 2016 support for Meridian Enterprise, and a required update for Windows Server 2012 R2.

## Windows Server 2016 support for Meridian Enterprise

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 the *Configure content indexing* article in the *Meridian Enterprise Administrator's Guide*.
2. Rebuild the Windows Search indexes as described in the *Build and maintain a content index* article in the *Meridian Enterprise Administrator's Guide*.
3. Restart indexing after the indexes are rebuilt.

## Required Update for Windows Server 2012 R2

[Windows RT 8.1, Windows 8.1, and Windows Server 2012 R2 update: April 2014](#) must be installed.

## VMware Workstation Support

Running the Meridian server software with VMware is conditionally supported for all versions of VMware including VMware ESX.

## Supported Operating Systems Table

### Supported operating systems

Operating System	Meridian Enterprise	Meridian Explorer	Publisher
Microsoft Hyper-V	supported	supported	supported
Windows Server 2022	supported	supported	supported
Windows Server 20H2	supported	supported	supported
Windows Server 2019	supported	supported	supported
Windows Server 2016	supported, see note above	supported, see note above	supported, see note above
Windows Server 2012 R2	supported, see note above	supported, see note above	supported, see note above
VMware Workstation	supported, see note above	supported, see note above	supported, see note above
VMware ESX Server	supported	supported	supported

## Remote Access Systems

The Meridian Enterprise PowerUser client application can be run remotely using popular remote access software such as Windows Terminal Server by Microsoft or XenApp by Citrix Systems. Support for remote access in Meridian is implemented in a generic way independent of the remote access software that is actually used.

**Note:**

Meridian is not tested in combination with load balancers, which are not supported. Some functionality may not work as expected.

Following is a list of remote access systems with which Meridian Enterprise is specifically supported. In all cases, we recommend that customers test their Meridian configuration thoroughly in a non-production environment with the intended remote access system before deploying it to production. Accruent Technical Support will assist with any compatibility issues found.

### Remote access systems

System	Version
Citrix XenApp & XenDesktop	7.0 and its minor versions

For information about deploying Meridian Enterprise with remote access systems, see the *Remote Access Support* section of the *Meridian Enterprise Administrator's Guide*.

## Authoring Applications

The following table lists the document authoring application versions that are supported by specific application links in this release of Meridian Enterprise. For the supported AutoCAD family versions, see [AutoCAD family applications](#).

Most applications in this list have specialized application links or add-ins that provide functionality similar to the following:

- Automatic external reference management and resolution.
- For CAD applications, file property and title block data exchange with the Meridian Enterprise database, Meridian Enterprise property editing, and redlines import from within the CAD application.
- For non-CAD applications, file property exchange with the Meridian Enterprise database from within the Meridian Enterprise desktop clients.
- File **Open/Save/Save As** dialog integration for applications that use standard Windows file dialogs. Not all applications that use customized dialogs are supported.
- Automatic management of hybrid documents, where applicable.
- Viewing of the application's file formats in Meridian Enterprise is provided by the viewer described in [Oracle AutoVue](#).
- Support for both 32-bit and 64-bit versions

As of the 2022 release, we no longer support the 32-bit version of Bentley MicroStation.

Applications are tested extensively with each release of Meridian Enterprise. Typically, Accruent supports the latest three major versions of applications. Accruent makes a commercially reasonable effort to support new versions of the most popular applications, within 90 days of the version's release to market.

## Supported Authoring Applications

The following tables list authoring applications and which versions of these applications Meridian supports.

### Autodesk Revit (Architecture, Structure, MEP)

No alternate viewer.

### Supported versions

Application Version	Meridian Enterprise
2023	supported
2022	supported
2021	supported
2020	supported
2019	supported
2018.3	supported
2017	supported

## Autodesk Inventor and Inventor Professional

64-bit support only. Since the end of 2020, Inventor can be used in Read-Only mode, which does not require an Inventor license. Inventor Read-Only does not support add-ins. Because of this, the integration with Meridian will not work because it depends on the Meridian Inventor add-in.

Use Autodesk Inventor View for viewing in Meridian Enterprise. Inventor View has a known problem that requires the following workaround:

1. Copy `C:\Program Files\Autodesk\<InventorVersion>\Bin\OGS*. *` to `C:\Program Files\BC-Meridian\Program\*. *`
2. Copy `C:\Program Files\Autodesk\<InventorVersion>\Bin\Bin32\OGS*. *` to `C:\Program Files (x86)\BC-Meridian\Program\*. *`

### Supported versions

Application Version	Meridian Enterprise
2023	supported
2022	supported
2021	supported
2020	supported
2019.1	supported
2018.1	supported
2017.3	supported

## Bentley MicroStation

We provide a way to integrate 3rd party viewers, but we cannot guarantee that any viewer can be integrated. A newer version may not work.

As of the 2022 release, we no longer support the 32-bit version of Bentley MicroStation.

### Supported versions

Application Version	Meridian Enterprise
10.00 (V10)	supported
8.11 (V8i, SELECTseries 1-4, incl. 64-bit)	supported

## Microsoft Office

All Office applications are supported by a general application link. A specific link is provided for the Visio file type only.

### Supported versions

Application Version	Meridian Enterprise
2019	supported
2016	supported
2013	supported
2010	supported

## Dassault Systèmes SolidWorks

64-bit support only. In Meridian Enterprise, use eDrawings for viewing. Only the first sheet of multi-sheet drawings will be shown.

### Supported versions

Application Version	Meridian Enterprise
2017 or later	supported

## AutoCAD Family Applications

The following table lists the Autodesk AutoCAD family application versions that are supported by specific application links in this release of Meridian Enterprise. For the supported rendering applications, see [Publisher Rendering Applications](#).

Depending on the application version, the links provide the following functionality:

- File **Open/Save/Save As** dialog integration for applications that use standard Windows file dialogs. Non-standard dialogs are supported for some applications.
- Automatic external reference (X-Ref) management and resolution.
- File property and title block data exchange with the Meridian Enterprise database, Meridian Enterprise property editing, and Meridian Enterprise redlines import from within the application.
- File property and title block data exchange with the Meridian Enterprise database from within the Meridian Enterprise desktop clients. The same actions performed from within the applications is supported for some applications.
- Automatic management of hybrid documents, where applicable.
- Support for both 32-bit and 64-bit versions
- Additional functionality may be available depending on the application. Some limitations may apply. Refer to the following table.

Applications are tested extensively with each release of Meridian Enterprise. Typically, Accruent supports the latest three major versions of applications. Accruent makes a commercially reasonable effort to support new versions of AutoCAD within 60 days of the release of the version to market.

The versions listed in the following table have been tested and are known to work without issues unless otherwise noted. Other versions might work without issues but have not been specifically tested. In general, when a new version of the basic AutoCAD application passes testing, we do not expect there to be compatibility problems with the vertical market editions of the same version. Specifically, Meridian provides three variations of the AutoCAD link, one each for basic AutoCAD, AutoCAD P&ID, and AutoCAD Plant 3D. Each of the other AutoCAD editions use the same basic AutoCAD variation of the link so compatibility is assumed.

Regardless of whether an application is listed here, we recommend that you perform your own testing to confirm that it meets your particular requirements before deploying the application for production use. If you require an explicit statement of testing and support for an unlisted application or version, contact Accruent Technical Support for the current status of support or to request testing. After the application passes testing, it will be added to this list, the latest revision of which can be found in the [Meridian Technical Library](#).



## Supported AutoCAD family applications

The following tables list the AutoDesk applications and which versions of these applications Meridian supports.

### AutoCAD

#### Supported versions

Application Version	Meridian Enterprise
2023	supported
2022	supported
2021	supported
2020	supported
2019.1	supported

### AutoCAD Architecture

#### Supported versions

Application Version	Meridian Enterprise
2023	supported
2022	supported
2021	supported
2020	supported

### AutoCAD Civil 3D

Supports standard AutoCAD functionality plus:

1. Requires use of shared folders for files that are accessed concurrently as described in *Shared workspace folders* in the *Meridian Enterprise User's Guide*.
2. In remote mode, provides limited supports for data shortcuts as described in *Data shortcuts* in the *Meridian Enterprise User's Guide*.

Meridian Enterprise supports Shortcuts for the 2021 version of Civil 3D only.

**Supported versions**

Application Version	Meridian Enterprise
2023	supported
2022	supported
2021	supported
2020	supported

## AutoCAD Electrical

Synchronization of project file references is also supported.

### Supported versions

Application Version	Meridian Enterprise
2023	supported
2022	supported
2021	supported
2020	supported

## AutoCAD Map 3D

### Supported versions

Application Version	Meridian Enterprise
2023	supported
2022	supported
2021	supported
2020	supported

## AutoCAD Mechanical

### Supported versions

Application Version	Meridian Enterprise
2023	supported
2022	supported
2021	supported
2020	supported

## AutoCAD MEP

### Supported versions

Application Version	Meridian Enterprise
2023	supported
2022	supported
2021	supported
2020	supported

## AutoCAD P&ID

Synchronization of project file references and project file properties are also supported. Supports Meridian Asset Management Module object tags.

Autodesk has [discontinued AutoCAD P&ID as of May 7, 2017](#) and its features are now included in AutoCAD Plant 3D. Consequently, the AutoCAD P&ID links provided in Meridian Enterprise prior to release 2017 SP1 will continue to be supported but only the AutoCAD Plant 3D link is provided in subsequent versions.

### Supported versions

Application Version	Meridian Enterprise
2017 SP1	supported
2017	supported

## AutoCAD Plant 3D

Assets are supported in Meridian Enterprise for the 2021 version of Plant 3D.

### Supported versions

Application Version	Meridian Enterprise
2023	supported
2021	supported
2020	supported
2019	supported

## AutoCAD Raster Design

### Supported versions

Application Version	Meridian Enterprise
2023	supported
2021	supported
2020	supported
2019	supported

## Email Applications

Meridian Enterprise includes client-based application links for the following email client applications. Meridian Enterprise supports [dragging-and-dropping emails to PowerWeb](#).

### Supported versions

Application Version	Meridian Enterprise
Microsoft Office Outlook 2019	supported
Microsoft Office Outlook 2016	supported
Microsoft Office Outlook 2013	supported
Microsoft Office Outlook 2010	supported
IBM Lotus Notes 10.x	supported
IBM Lotus Notes 9.x	supported
IBM Lotus Notes 8.x	supported

## Web Servers and Browsers

The Meridian Enterprise web applications require the following servers and browsers:

### Supported Web Servers

**Note:**

Web service clusters are not supported.

#### Supported web servers

Version	Meridian Enterprise	Meridian Explorer	Publisher
Internet Information Services 10	supported	supported	supported
Internet Information Services 8.5	supported	supported	supported
Internet Information Services 8	supported	supported	supported
Internet Information Services 7.5	supported	supported	supported
Internet Information Services 7	supported	supported	supported

### Supported Desktop Browsers

The **Meridian Enterprise** column in the table below also applies to PowerWeb.

Learn more about [Internet Explorer's End of Life and its impact on Meridian](#). As of the Meridian 2022 release, the Meridian **ActiveX** control is deprecated. It is still included in the Setup and can be used as-is, but issues will not be fixed anymore. In a future release, it may be removed from the Setup.

## Supported web browsers

Version	PowerWeb	Meridian Explorer	Administration Console	Notes
Microsoft Edge 40+	supported	supported	supported	Only the PDFTron viewer is supported and only for renditions. ActiveX compatibility mode in PowerWeb and Meridian Explorer download options are not supported.
Microsoft Edge <40	<b>not supported</b>	<b>not supported</b>	<b>not supported</b>	
<a href="#">Microsoft Edge Based on Chromium</a>	supported	supported	supported	
<a href="#">Microsoft Edge in IE Mode / Microsoft Edge 77+</a>	supported, see notes	supported, see notes	supported, see notes	<p>In standard mode, only the PDFTron viewer is supported and only for renditions. ActiveX compatibility mode in PowerWeb and Meridian Explorer download options are not supported.</p> <p>In Internet Explorer mode, AutoVue is supported in both Desktop and Server deployment. Also, ActiveX compatibility mode in PowerWeb and Meridian Explorer download options are supported and function in the same way as in Internet Explorer.</p>
Google Chrome 59+	supported	supported	supported	The built-in PDF viewer is not compatible with Accruent products. Only the PDFTron viewer is supported and only for renditions. ActiveX compatibility mode in PowerWeb and Meridian Explorer download options are not supported.
Google Chrome <59	<b>not supported</b>	<b>not supported</b>	<b>not supported</b>	



Version	PowerWeb	Meridian Explorer	Administration Console	Notes
Mozilla Firefox 54+	supported	supported	supported	The built-in PDF viewer is not compatible with Accruent products. Only the PDFTron viewer is supported and only for renditions. ActiveX compatibility mode in PowerWeb and Meridian Explorer download options are not supported.
Mozilla Firefox <54	<b>not supported</b>	<b>not supported</b>	<b>not supported</b>	
Apple Safari 9+	<b>not supported</b>	supported	supported	The built-in PDF viewer is not compatible with Accruent products.
Apple Safari <9	<b>not supported</b>	<b>not supported</b>	<b>not supported</b>	

## Supported Mobile Browsers

The **Meridian Enterprise** column in the table below also applies to PowerWeb.

### Supported web browsers

Version	Meridian Enterprise	Meridian Explorer	Publisher	Notes
Apple Safari	supported	supported	supported	
Google Chrome (Android)	supported	supported	supported	Only the PDFTron viewer is supported and only for renditions. ActiveX compatibility mode in PowerWeb and Meridian Explorer download options are not supported.
Google Chrome (iOS)	supported	supported	supported	Only the PDFTron viewer is supported and only for renditions. ActiveX compatibility mode in PowerWeb and Meridian Explorer download options are not supported.
Mozilla Firefox (Android)	supported	supported	supported	Only the PDFTron viewer is supported and only for renditions. ActiveX compatibility mode in PowerWeb and Meridian Explorer download options are not supported.
Mozilla Firefox (iOS)	supported	supported	supported	Only the PDFTron viewer is supported and only for renditions. ActiveX compatibility mode in PowerWeb and Meridian Explorer download options are not supported.

## Database Management Systems

The Meridian Enterprise suite supports the following database management systems.

### Local Workspace Data Management

Besides the Microsoft Jet database engine (installed separately) or SQLite (embedded), Meridian Enterprise supports the following database management systems for local workspace data management.

The Express editions of SQL Server are supported for evaluation, development, and demonstration purposes only. They are also supported for the Meridian Enterprise Server configuration database only when Meridian Explorer is not configured. We do not recommend it for any environments. Accruent does not routinely test the Express editions for compatibility, performance, stability, or scalability. When Meridian Explorer is configured, the Standard or Enterprise edition of SQL Server must be used. SQL Server failover clusters are supported.

#### **Important!**

SQL Server Compact has reached End of Life Status. We recommend transitioning to SQLite.

### Microsoft SQL Server Compact Edition

#### Supported versions of Microsoft SQL Server Compact Edition

Version	2017	2018	2019
SQL Server Compact Edition 4.0	supported	supported	supported
SQL Server Compact Edition 3.5	supported	supported	supported

### Vault, Configurator, Repository, and Log Database Storage

Meridian Enterprise supports the following database management systems for the storage of Meridian Enterprise vault, Meridian Enterprise Server configuration, Meridian Explorer repository, and Publisher log databases.

### Microsoft SQL Server (32-bit and 64-bit versions)

After reviewing the table, read the notes in the expanding sections below for specific requirements, limitations, and exceptions.

## Supported Versions Table

### Supported versions of Microsoft SQL Server (32-bit and 64-bit versions)

Version	Meridian Enterprise	Meridian Enterprise Server	Meridian Explorer	Publisher
SQL Server 2019	supported	supported	supported	supported
SQL Server 2017	supported	supported	supported	supported
SQL Server 2016	supported	supported	supported	supported
SQL Server 2014	supported	supported	supported	supported
SQL Server 2012	supported	supported	supported	supported

## Notes about SQL Server Express

The Express editions of SQL Server are supported for evaluation, development, and demonstration purposes only. They are also supported for the Meridian Enterprise Server configuration database only when Meridian Explorer is not configured. We do not recommend it for any environments. Accruent does not routinely test the Express editions for compatibility, performance, stability, or scalability. When Meridian Explorer is configured, the Standard or Enterprise edition of SQL Server must be used. SQL Server failover clusters are supported.

## Notes about Meridian Explorer

Meridian Explorer only supports the 64-bit versions of Microsoft SQL Server.

Database collation determines if queries and T-SQL script are case-sensitive or case-insensitive. Meridian Explorer requires case-insensitive database collation, which can be set either on the server level or on the database level. To set the collation at the server level, see [Set or Change the Server Collation](#). To set the collation at the database level, see [Set or Change the Database Collation](#).

The Full Text Search component is not installed by default, but is required on servers where repositories will be created. The Full Text Search component is only included in the following editions of SQL Server: Express with Advanced Services, Standard, and Enterprise editions.

Microsoft SQL Server provides a FILESTREAM feature for higher performance that we recommend and is enabled by default during repository creation. Before using this feature, we strongly recommend that you fully understand the advantages, limitations, and implications of the feature by studying the Microsoft SQL Server documentation. For an overview, see [Binary Large Object \(Blob\) Data \(SQL Server\)](#) on Microsoft TechNet.

## Requirements for Versions 2018 R2 and Newer

Beginning with Meridian Enterprise 2018 R2 Update 1, 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 standards 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](#)

## Oracle

Oracle Standard Edition and Enterprise Edition are supported for all products except Meridian Explorer. We assume that non-Windows versions of Oracle are compatible with the Windows versions (as pertains to Meridian Enterprise compatibility). Accruent supports non-Windows configurations, but does not test them. For more information on testing and supporting non-Windows versions, contact Accruent Technical Support.

The Oracle Text component is not installed by default, but is required on servers where repositories will be created.

Oracle Real Application Clusters (RAC) are supported. Contact Accruent Technical Support for more information.

### Supported versions of Oracle

Version	Meridian Enterprise	Meridian Enterprise Server	Meridian Explorer	Publisher
Oracle 19c Release 2 (19.0.0.0)	supported	supported	supported	supported
Oracle 18c Release 2 (18.0.0.0)	supported	supported	supported	supported
Oracle 12c Release 2 (12.2.0.1)	supported	supported	supported	supported

Version	Meridian Enterprise	Meridian Enterprise Server	Meridian Explorer	Publisher
Oracle 12c Release 1 (12.1.0.2)	supported	supported	supported	supported
Oracle 11g Release 2 (11.2.0.1)	supported	supported	supported	supported
Oracle 11g Release 1 (11.1.0.7)	supported	supported	<b>not supported</b>	supported

## SQL Azure

As of the 2022 release, SQL Azure is supported as a database provider for Meridian Enterprise Server. However, there are a few limitations to this support:

- [We only support Azure virtual machines \(VMs\).](#)
- The setup script should only be used with a fresh installation of Enterprise Server. Any existing configuration will be overwritten or will not be functional anymore.

See the *SQL Azure Database Creation Script* article in the *Meridian Enterprise Administrator's Guide* for more information.

## Languages

Meridian Enterprise supports the following languages. Accruent provides technical support for the applications and operating systems listed in this document to the extent that they behave the same as their English versions.

Date formatting is also supported for the following additional locales: en-GB, en-AU, en-NZ, fr-CA.

Support on non-Chinese Windows operating systems requires installation of the Chinese language pack. Meridian Explorer full-text search supports all of the same languages as Windows Search except Chinese in vaults hosted in Oracle 12c.

### Supported languages

Language	Meridian Enterprise, PowerWeb	Meridian Portal	Meridian Explorer	Publisher	Documentation
Brazilian Portuguese	supported	supported	supported	supported	<b>not supported</b>
Simplified Chinese	supported	<b>not supported</b>	supported	supported	<b>not supported</b>
Dutch	<b>not supported</b>	<b>not supported</b>	supported	supported	<b>not supported</b>
English	supported	supported	supported	supported	supported
Finnish	supported	supported	supported	supported	<b>not supported</b>
French	supported	supported	supported	supported	<b>not supported</b>
German	supported	supported	supported	supported	<b>not supported</b>
Italian	supported	<b>not supported</b>	supported	supported	<b>not supported</b>
Japanese	supported	<b>not supported</b>	supported	<b>not supported</b>	<b>not supported</b>
Polish	supported	<b>not supported</b>	supported	supported	<b>not supported</b>
Russian	supported	<b>not supported</b>	<b>not supported</b>	<b>not supported</b>	<b>not supported</b>
Spanish	supported	supported	supported	supported	<b>not supported</b>

Language	Meridian Enterprise, PowerWeb	Meridian Portal	Meridian Explorer	Publisher	Documentation
Swedish	supported	<b>not supported</b>	<b>not supported</b>	<b>not supported</b>	<b>not supported</b>



## Oracle AutoVue

Meridian Enterprise supports AutoVue for source document viewing. A complete list of the supported file formats, user documentation, and additional technical documentation for AutoVue products can be found online at the Oracle [web site](#). For the input and output formats supported by Publisher, see [Rendering Modules](#).

AutoVue 2D and 3D viewing requires additional cost licenses and software that are available from Oracle. A list of the additional file formats supported by AutoVue 3D can be found at the link above.

### Important!

The JAR files required for the AutoVue integration are no longer included with our installation files. These files and installation instructions can be provided to you by request via Accruent Support.

## Notes about Functionality

- When AutoVue is installed as a desktop deployment, the version of the Java Runtime Environment that is included with AutoVue is used by the viewer regardless of any other versions of Java that are installed.

When AutoVue is installed as a client/server deployment, the client computers require a Java Virtual Machine version that is listed in the *Oracle AutoVue Client-Server Deployment Installation and Configuration Guide* for the version of AutoVue that is installed (also listed in the following table).

- Each version of the AutoVue software supports specific Java versions. If the computer on which you want to install AutoVue must use a Java version that is unsupported by AutoVue in order to support another application, you can configure separate Java versions on the same computer for each application as described in [Deployment Rule Set](#).
- Legacy Accruent viewer redlines and AutoVue redlines are incompatible and cannot be used interchangeably for the same file formats. If Accruent viewer redlines exist for AutoCAD or raster image files, they will be automatically converted to AutoVue redlines and shown in AutoVue. Editing and saving the redlines stores them permanently in the AutoVue format.
- The AutoVue desktop versions do not run in the Accruent 64-bit client applications. The AutoVue Client/Server viewer can be deployed in such cases.
- The Accruent Connector that is installed for use by AutoVue client/server deployments runs on the Java application server Jetty that is installed with AutoVue by default. In high load environments, we recommend running it on the Apache Tomcat Java server instead.

Instructions on deployment can be found in the [Meridian knowledge base](#).

- For information about deploying AutoVue on Apache Tomcat, see the Meridian Knowledge Base article [How to deploy AutoVue on Apache Tomcat](#).
- Beginning with release 2016, two rendering modules are provided that are both based on AutoVue software. The AutoVue rendering module uses the AutoVue Desktop version 20.0.4 that supports the most rendering options but older file formats and has been discontinued by Oracle. The AutoVue Desktop Deployment rendering module uses the AutoVue client/server edition that is installed as a desktop deployment, supports newer file formats, and is fully supported by Oracle but supports fewer rendering options. A complete list of the supported formats can be found on the Oracle [web site](#).
- Industry Foundation Classes (IFC) files generated by Autodesk Revit that contain encoded comments are not supported.
- Install all applicable AutoVue rollup patches (RUPs) to prevent errors and performance issues. Not all patches have been tested with Meridian, particularly those that were released after a supported Meridian version was released.

## Supported Versions Tables

The versions of Oracle AutoVue that are supported by the Accruent products that use it are listed in the following tables.

### Important!

Oracle AutoVue versions 21.0.2 and earlier (the versions included with Meridian) are not compatible with the Java™ SE Development Kit 8, Update 301 (JDK 8u301). Do not upgrade to Java 8 Update 301 on workstations that require AutoVue.

## Meridian Enterprise / Meridian Explorer

### Supported versions of Oracle AutoVue

Product	AutoVue 20.2.3	AutoVue 21.0	AutoVue 21.0.1	AutoVue 21.0.2
2020	not supported	not supported	supported	AutoVue Desktop only
2019, 2019 R2	not supported	not supported	supported	AutoVue Desktop only
2018, 2018 R2	not supported	not supported	supported	AutoVue Desktop only
2017, 2017 SP1	not supported	supported	not supported	not supported

## Java Virtual Machine

Some updates might register the wrong path to the Java runtime library during installation and require manual correction as described in:

- [JRE 1.7.0 Update 1 incorrect RuntimeLib registry entry](#)
- [amd64 prunsrv.exe pointed to wrong default jvm.dll](#)

Version 8 update 25 can produce the error **Can not establish connection to BlueCielo WebService** when viewing documents if the **Enable dynamic content compression** option is enabled for the **BCWebService** application in IIS Manager. To prevent this error, disable the option or install a different version of the Java virtual machine.

Version 8 is also incompatible with the Print and Print Preview commands in AutoVue unless the **NATIVEJAVAPRINTING** setting is set to **1** in the **PRINTOPTIONS** section of the file `AVS\bin\allusers.ini` and the AutoVue Server is restarted.

### Supported versions of Oracle AutoVue

Product	AutoVue 20.2.3	AutoVue 21.0	AutoVue 21.0.1	AutoVue 21.0.2
Java Platform Standard Edition	8 and higher 7 update 45 and higher	8 update 11 and higher 7 update 45 and higher	8 update 11 and higher 7 update 45 and higher	8 update 11 and higher 7 update 45 and higher

Meridian Enterprise and Meridian Enterprise Server support deployment of AutoVue Client/Server except as noted above. For more information, see the *AutoVue* sections of the *Meridian Enterprise Administrator's Guide* and the *Meridian Enterprise Server Administrator's Guide*.

## Third-Party Viewers

The Meridian Enterprise viewer can integrate simultaneously with multiple third-party viewers that support different file formats. To integrate with Meridian Enterprise, a third-party viewer must be an ActiveX control. Each file format can be associated with a different viewer. The viewing tools available for a particular file depend on the viewer associated with the file's format.

Accruent does not test all versions of the viewers listed below. Version numbers that are shown indicate the versions that have been tested by Accruent. If a version number is not shown, specific versions might work but may not have been tested. Such versions will only receive basic technical support and might require upgrading for full functionality.

Accruent assumes no responsibility for the functionality or visual fidelity provided by third-party viewers or available within Accruent products integrated with such viewers.

The following third-party viewers (not included) are supported by Meridian Enterprise in addition to Oracle AutoVue:

- **Adobe Reader & Adobe Reader DC**

Adobe Reader is supported whether installed stand-alone or by Adobe Acrobat Standard or Adobe Acrobat Pro. Version 11 requires release 11.0.09 or higher. The **Draft Print** privilege cannot prevent printing from Adobe Reader in Protected Mode. If you want to prevent printing, Protected Mode must be disabled and the user prevented from modifying the corresponding setting in the HKEY\_CURRENT\_USER hive of the Windows registry. Batch printing is not supported.

- **Autodesk CAD Overlay ESP format**

Can be detected by Meridian Enterprise if support for it is installed on the computer. This is done by importing a registry file. See *Install Third-Party Viewers* in the *Meridian Enterprise User's Guide*.

- **Autodesk DWF Viewer**

- **Autodesk DWG TrueView**

The viewer toolbar buttons can sometimes “stick” which requires pressing Esc to use other toolbar buttons. When printing from PowerUser 32-bit on a 64-bit PC, the progress dialog box does not close after printing is finished. Can create faults in the Windows application event log although the viewer continues to work.

- **Autodesk Inventor View**

The 64-bit versions of Inventor View can be enabled in Internet Explorer 64-bit by selecting the **Enable Protected Mode** option on the **Security** tab and the **Enable Enhanced Protected Mode** option in the **Security** group on the **Advanced** tab in **Internet Options**.

There is also a known problem with all versions of Inventor View that can cause it to fail when showing Autodesk Inventor Drawing (\*.idw) files. Autodesk Inventor assembly (\*.iam) and part files (\*.ipt) display correctly. The solution is described in the [Autodesk Manufacturing DevBlog](#).

- **Autodesk NavisWorks Freedom**

Can be detected by Meridian Enterprise if support for it is installed on the computer. This is done by importing a registry file. See *Install Third-Party Viewers* in the *Meridian Enterprise User's Guide*.

The 64-bit version of NavisWorks Freedom 2015 can be enabled in Internet Explorer 64-bit by selecting the **Enable Protected Mode** option on the **Security** tab and the **Enable Enhanced Protected Mode** option in the **Security** group on the **Advanced** tab in **Internet Options**.

- **AutoVue 3D Professional Advanced**

Not supported on 64-bit Windows. Each version of Meridian Enterprise supports specific versions of AutoVue.

- **Forge Native Viewer**

If a file is submitted to Forge and converted, you can view it from MeridianPowerWeb or Meridian Explorer. The **Show rendition by Forge Native Viewer** link in PowerWeb and the **Open in Forge** button in Meridian Explorer allow you to view the document in Forge Viewer in a new browser tab. Hybrid parts such as PDF and DWF are not rendered.

- **GTx RasterCAD format**

Can be detected by Meridian Enterprise if support for it is installed on the computer. This is done by importing a registry file. See *Install Third-Party Viewers* in the *Meridian Enterprise User's Guide*.

- **Hitachi Raster format**

Can be detected by Meridian Enterprise if support for it is installed on the computer. This is done by importing a registry file. See *Install Third-Party Viewers* in the *Meridian Enterprise User's Guide*.

- **IGC Brava! Desktop**

The following features are limited or not yet supported:

- Redlines
- Renditions
- Electronic signatures
- Watermarks
- Hotspots

- Text extraction for full-text search
- External reference files that reside in folders other than the location of the parent file will not resolve on Windows 8 or Windows Server 2012 if the user does not have write permission to the `myrdrv.ini` file that is located in the Brava program folder.

Following are the recommended workarounds:

1. Install Brava in a location other than the `Program Files` (default) folder
2. Run PowerUser as an administrator of the PC
3. Grant write permission to the user for the `myrdrv.ini` file located in the Brava program folder.

For a list of the supported file formats, see [Brava! Desktop Supported File Formats](#).

- **Kodak Image Viewer**

- **Bentley View**

The raster parts of hybrid drawings do not appear unless they are located in the same folder as the main part or the main part is opened in the viewer as an authoring application.

- **Microsoft Internet Explorer**

- **SolidWorks eDrawings 2009 or later**

For Internet Explorer, you need to follow the instructions [in this article](#) to make eDrawings work for PowerWeb.

- **TopSolid'Viewer**

Available upon request from Accruent Technical Support

- **TSL CADRaster format**

Can be detected by Meridian Enterprise if support for it is installed on the computer. This is done by importing a registry file. See *Install Third-Party Viewers* in the *Meridian Enterprise User's Guide*.

## Meridian Asset Management Module

The Meridian Asset Management Module can be integrated with a variety of enterprise asset management, maintenance management and facility management solutions, such as IBM Maximo, SAP Plant Maintenance, FAMIS, Datastream, Ultimo and others. Because each organization's implementation of these systems is highly customized, integration with the Meridian Asset Management Module is also typically a custom solution developed by Accruent or one of its Certified Partners.

The Meridian Asset Management Module includes example integration support files for the following popular systems:

### Example support files provided

Other System	2018	2018 R2	2019	2020
IBM Maximo 7	supported	supported	supported	supported
SAP/PM all versions	see note below	see note below	see note below	see note below

The Meridian Enterprise integration with SAP PM is version-independent and requires programming services provided by Accruent or a certified Accruent Partner to customize the link for each customer's requirements.

## Meridian Explorer

Explorer includes support for the AutoVue Client/Server versions listed in [Oracle AutoVue](#). Select a supported combination of versions of Meridian Explorer or Meridian Enterprise Server with Meridian Enterprise if you expect to deploy them with a shared installation of AutoVue Client/Server. For information on file formats supported by the viewer, see the Oracle [web site](#).



## Meridian Global Collaboration Framework

The following applications are supported as shares by the Meridian GCF/Project Portal versions indicated.

### Supported versions of Accruent Project Portal

Application Version	2018	2018 R2	2019	2020
Accruent Project Portal 2018 SP1.1	supported	supported	supported	supported
Accruent Project Portal 2017	supported	supported	supported	supported
Accruent Project Portal 2016	supported	supported	supported	supported

## Publisher Rendering Applications

The following application versions are supported by the rendering modules of the Publisher versions indicated.

### Acme CAD Converter

Version 8.6.5 does not support the AutoCAD 2018 or later file formats. Consider upgrading to a newer version.

#### Supported versions

Application Version	2018	2018 R2	2019	2019 R2	2020	2020 R2 or later
8.9.8.1488	supported	supported	supported	supported	supported	supported
8.9.8.1474	supported	supported	supported	supported	supported	supported
8.6.5	supported	supported	supported	supported	supported	supported

### Autodesk AutoCAD

The following conditions apply:

1. Only one AutoCAD version and edition is supported per Publisher node
2. When an issue is encountered with a particular AutoCAD edition, Accruent Support will assist in verifying if the issue is indeed caused by the use of that edition.
3. If an issue is confirmed to be caused by an edition that is not formally supported by Accruent, it will expressly NOT be considered to be a product defect.
4. If software changes are required to address an issue caused by an unsupported edition, Accruent will consider it for a future release and may announce formal support for that edition.

### Supported versions

Application Version	2018	2018 R2 - 2019	2019 R2 - 2021	2021 R2	2022
2023	<b>not supported</b>	<b>not supported</b>	<b>not supported</b>	<b>not supported</b>	supported
2022	<b>not supported</b>	<b>not supported</b>	<b>not supported</b>	supported	supported
2021	<b>not supported</b>	<b>not supported</b>	supported	supported	supported
2020.1.2	<b>not supported</b>	<b>not supported</b>	supported	supported	supported
2019	<b>not supported</b>	supported	supported	supported	supported
2018.1.2	<b>not supported</b>	supported	supported	supported	supported
2018	supported	supported	supported	supported	<b>not supported</b>
2017	supported	supported	supported	supported	<b>not supported</b>

## Autodesk Inventor

The AutoVue rendering module is limited in the input and output (rendition) file formats and versions that it supports compared to those that the AutoVue viewer supports. For specific formats, see [Rendering Modules](#).

### Supported versions

Application Version	2018	2018 R2	2019	2019 R2	2020	2020 R2 or later
2017 and later	<b>not supported</b>	supported	supported	supported	supported	supported

## Autodesk Revit

### Supported versions

Application Version	2018	2018 R2	2019	2019 R2	2020	2020 R2 or later
2023	<b>not supported</b>	supported	supported	supported	supported	supported
2022	<b>not supported</b>	supported	supported	supported	supported	supported
2021	<b>not supported</b>	supported	supported	supported	supported	supported
2020	<b>not supported</b>	supported	supported	supported	supported	supported
2019	<b>not supported</b>	supported	supported	supported	supported	supported
2018.3	<b>not supported</b>	supported	supported	supported	supported	supported
2018	supported	supported	supported	supported	supported	supported
2017	supported	supported	supported	supported	supported	supported

## Dassault Systèmes SolidWorks

SolidWorks is supported in interactive mode only.

### Supported versions

Application Version	2018	2018 R2	2019	2019 R2	2020	2020 R2 or later
2017 and later	<b>not supported</b>	<b>not supported</b>	supported	supported	supported	supported

## Microsoft Office

The Office365 versions of the applications are NOT supported. Only the locally installed versions are supported.

### Supported versions

Application Version	2018	2018 R2	2019	2019 R2	2020	2020 R2 or later
Office 2019	supported	supported	supported	supported	supported	supported
Office 2016	supported	supported	supported	supported	supported	supported
Office 2013	supported	supported	supported	supported	supported	supported
Office 2010	supported	supported	supported	supported	supported	supported

## Open Design Alliance Teigha

### Supported versions

Application Version	2018	2018 R2	2019	2019 R2	2020	2020 R2 or later
4.3.1	supported	supported	supported	supported	supported	supported
4.2	<b>not supported</b>	<b>not supported</b>	<b>not supported</b>	<b>not supported</b>	<b>not supported</b>	supported
4.01.01	<b>not supported</b>	<b>not supported</b>	<b>not supported</b>	<b>not supported</b>	<b>not supported</b>	supported
4.01.00	<b>not supported</b>	<b>not supported</b>	<b>not supported</b>	<b>not supported</b>	<b>not supported</b>	supported

## Oracle AutoVue

Supports 2D rendering and 3D rendering. The AutoVue rendering module is limited in the input and output (rendition) file formats and versions that it supports compared to those that the AutoVue viewer supports. For specific formats, see [Rendering Modules](#).

Beginning with release 2016, two rendering modules are provided that are both based on AutoVue software. The **AutoVue rendering module** uses the AutoVue Desktop version 20.0.4 that supports the most rendering options but not some newer file formats and has been discontinued

by Oracle. The **AutoVue Desktop Deployment rendering module** uses the AutoVue client/server edition that is installed as a desktop deployment. It supports newer file formats, relines (the rendering module does not support AutoVue **Signoff** stamps) and is fully supported by Oracle but it supports fewer rendering options. A complete list of the supported formats can be found on the Oracle [web site](#).

#### Supported versions

Application Version	2018	2018 R2	2019	2019 R2	2020	2020 R2 or later
21.0.1	supported	supported	supported	supported	supported	supported
21	not supported	not supported	not supported	not supported	not supported	supported
20.2.3	not supported	not supported	not supported	not supported	not supported	supported
20.2.2	not supported	not supported	not supported	not supported	not supported	supported

## Publisher System Links

The following applications are supported as publishing sources or destinations by the Publisher versions indicated. Only the application versions within the same column are supported by each Publisher version. Please note the following:

1. SharePoint Online support is available by selecting the **Authenticate with Microsoft Online Services** check box in the **Destination Systems** dialog box.
2. In SharePoint Server 2019, Publisher commands are only visible in the classic SharePoint experience.

### Supported document repositories

Application Version	2018	2018 R2	2019	2020
Accruent Project Portal (Kronodoc) 2012 SP3 and higher	supported	supported	supported	supported
Meridian Enterprise vault	supported	supported	supported	supported
SharePoint Online	supported	supported	supported	supported
SharePoint Server 2019 (Foundation, Standard, Enterprise Editions)	supported	supported	supported	supported
SharePoint Server 2016 (Foundation, Standard, Enterprise Editions)	supported	supported	supported	supported
Windows file system	supported	supported	supported	supported

## System Requirements Cross-References

Certain Accruent products have hardware and software system requirements that can be found at the cross-references listed in the following table.

### System requirements cross-references

Product	Document	Section
Meridian Enterprise	<i>Meridian Enterprise System Requirements</i>	<i>Meridian Enterprise Server System Requirements</i>
Meridian Explorer	<i>Meridian Enterprise Server Administrator's Guide</i>	<i>System Requirements For Meridian Clients</i>
Publisher	<i>Meridian Enterprise Server Administrator's Guide</i>	<i>Publisher Requirements</i>
Meridian Asset Management Module	<i>Meridian Enterprise Configuration Guide</i>	<i>Asset Management Module System Requirements</i>



## Rendering Modules

This article lists additional requirements per rendering module. It also displays information about the rendering modules in two ways: supported file types per rendering module, and the rendering modules applicable to each file type.

### Additional Requirements per Module

The following table lists additional requirements and notes for each rendering module.

#### Additional Requirements per Module

Rendering Module	Additional Requirements	Notes
ACME CAD	ACME CAD license required.	To learn more, see <i>Configure the Acme CAD Converter Rendering Module</i> in the <i>Meridian Enterprise Server Administrator's Guide</i> .
Aspose	<p>If you are switching to the Aspose rendering module after having previously used Microsoft Office, you may need to install some fonts for Office files to render correctly. The reason for this is because Office includes several fonts in its installation package, including some proprietary fonts. These fonts are not included with Meridian.</p> <p>For many of the fonts, you can download and install <a href="#">True Type Font (.ttf)</a> files for free. However, for Microsoft's proprietary fonts, you will need to <a href="#">acquire a license</a>.</p>	To learn more, see <i>Configure the Aspose Rendering Module Options</i> in the <i>Meridian Enterprise Server Administrator's Guide</i> .

Rendering Module	Additional Requirements	Notes
AutoVue		<p>Limitations for specific file types. See tables below.</p> <p>This list is a subset of the formats that AutoVue supports for viewing. A complete list of the viewing formats can be found on the Oracle <a href="#">web site</a>. This list is provided as a guideline for convenience only and may not be accurate for specific combinations of the versions of Publisher, AutoVue, and the source document format. For confirmation of support for specific combinations and any known limitations, contact Accruent Technical Support.</p> <p>To learn more, see <i>Configure the AutoVue Rendering Module Options</i> in the <i>Meridian Enterprise Server Administrator's Guide</i>.</p>
Custom Render Engine	Depends on the render engine	<p>To learn more, see <i>Configure the Custom Rendering Module Options</i> in the <i>Meridian Enterprise Server Administrator's Guide</i>.</p>
Forge	<ul style="list-style-type: none"> <li>Autodesk Forge account</li> <li><b>For Microstation:</b> Meridian Tenancy</li> <li>Internet access</li> </ul>	<p>Forge does not create PDF renditions, as the other render engines do. For documents rendered with Forge, a SVG (Scalable Vector Graphics) rendition is generated which is stored in an Autodesk web service. <a href="#">See the file formats supported by Forge</a>.</p> <p>To learn more, see <i>Configure the Autodesk Forge Rendering Module Options</i> in the <i>Meridian Enterprise Server Administrator's Guide</i>.</p>

Rendering Module	Additional Requirements	Notes
Native AutoCAD renderer	<ul style="list-style-type: none"> <li>• <b>For plain:</b> AutoCAD installation</li> <li>• <b>For verticals:</b> AutoCAD vertical installation If multiple AutoCAD verticals are required, they must be installed on separate render nodes.</li> <li>• Publisher must run in interactive mode</li> <li>• Additional license</li> </ul>	<p>The license agreement of an application may prohibit using a centrally deployed and/or automated installation to generate output available to multiple users.</p> <p>The additional license is included in the Enterprise subscription plan.</p> <p>Interactive mode requires an account to be constantly logged into the server to run Publisher. Learn more about this topic in <a href="#">Meridian Enterprise Server Clusters</a>.</p> <p>To learn more, see <i>Configure the Autodesk AutoCAD Rendering Module Options</i> in the <i>Meridian Enterprise Server Administrator's Guide</i>.</p>
Native Inventor renderer	<ul style="list-style-type: none"> <li>• Inventor installation</li> <li>• Publisher must run in interactive mode</li> <li>• Additional license</li> </ul>	<p>The license agreement of an application may prohibit using a centrally deployed and/or automated installation to generate output available to multiple users.</p> <p>The additional license is included in the Enterprise subscription plan.</p> <p>Interactive mode requires an account to be constantly logged into the server to run Publisher. Learn more about this topic in <a href="#">Meridian Enterprise Server Clusters</a>.</p> <p>To learn more, see <i>Configure the Autodesk Inventor Rendering Module Options</i> in the <i>Meridian Enterprise Server Administrator's Guide</i>.</p>
Native Microstation renderer	<ul style="list-style-type: none"> <li>• Microstation installation</li> <li>• Publisher must run in interactive mode</li> <li>• Additional license</li> </ul>	<p>The license agreement of an application may prohibit using a centrally deployed and/or automated installation to generate output available to multiple users.</p> <p>The additional license is included in the Enterprise subscription plan.</p> <p>Interactive mode requires an account to be constantly logged into the server to run Publisher. Learn more about this topic in <a href="#">Meridian Enterprise Server Clusters</a>.</p>

Rendering Module	Additional Requirements	Notes
Native Office renderer	<ul style="list-style-type: none"> <li>• Microsoft Office installation</li> <li>• Publisher must run in interactive mode</li> <li>• Additional license</li> </ul>	<p>The license agreement of an application may prohibit using a centrally deployed and/or automated installation to generate output available to multiple users.</p> <p>The additional license is included in the Enterprise subscription plan.</p> <p>Interactive mode requires an account to be constantly logged into the server to run Publisher. Learn more about this topic in <a href="#">Meridian Enterprise Server Clusters</a>.</p> <p>To learn more, see <i>Configure the Microsoft Office Rendering Module Options</i> in the <i>Meridian Enterprise Server Administrator's Guide</i>.</p>
Native Revit renderer	<ul style="list-style-type: none"> <li>• Revit installation</li> <li>• Publisher must run in interactive mode</li> <li>• Additional license</li> </ul>	<p>The license agreement of an application may prohibit using a centrally deployed and/or automated installation to generate output available to multiple users.</p> <p>The additional license is included in the Enterprise subscription plan.</p> <p>Interactive mode requires an account to be constantly logged into the server to run Publisher. Learn more about this topic in <a href="#">Meridian Enterprise Server Clusters</a>.</p> <p>To learn more, see <i>Configure the Autodesk Revit Rendering Module</i> in the <i>Meridian Enterprise Server Administrator's Guide</i>.</p>

Rendering Module	Additional Requirements	Notes
Native SolidWorks renderer	<ul style="list-style-type: none"> <li>• SolidWorks installation</li> <li>• Publisher must run in interactive mode</li> <li>• Additional license</li> </ul>	<p>The license agreement of an application may prohibit using a centrally deployed and/or automated installation to generate output available to multiple users.</p> <p>The additional license is included in the Enterprise subscription plan.</p> <p>Interactive mode requires an account to be constantly logged into the server to run Publisher. Learn more about this topic in <a href="#">Meridian Enterprise Server Clusters</a>.</p> <p>To learn more, see <i>Configure the Dassault Systèmes SolidWorks Rendering Module Options</i> in the <i>Meridian Enterprise Server Administrator's Guide</i>.</p>
PDFSharp	None	<p>To learn more, see <i>Configure the PDFsharp Rendering Module Options</i> in the <i>Meridian Enterprise Server Administrator's Guide</i>.</p>
Teigha	None	<p>There are two rendering modules, and they are applicable to different file types:</p> <ul style="list-style-type: none"> <li>• Teigha DGN Rendering Module</li> <li>• Teigha DWG Rendering Module</li> </ul> <p>To learn more, see <i>Configure the Teigha DGN Rendering Module Options</i> and <i>Configure the Teigha DWG Rendering Module Options</i> in the <i>Meridian Enterprise Server Administrator's Guide</i>.</p>

## Modules and File Extensions They Support

In the table below, each module is listed along with the file extensions it supports.

**Modules and File Extensions They Support**

Rendering Module	File Extension	Format	Comments
ACME CAD	dwf	Design Web Format File	AutoCAD - plain
ACME CAD	dwg	Autodesk AutoCAD drawing	AutoCAD - plain
ACME CAD	dxf	Drawing Exchange Format File	
Aspose	doc	MS Word 97-2003 Document	
Aspose	docx	MS Word Document	
Aspose	htm	Web Page	
Aspose	html	Web Page	
Aspose	jpeg	JPEG File Interchange Format	
Aspose	jpg	JPEG File Interchange Format	
Aspose	png	Portable Network Graphics Format	
Aspose	ppt	MS PowerPoint 97-2003 Presentation	
Aspose	pptx	MS PowerPoint Presentation	
Aspose	tif	Tagged Image File Format	
Aspose	tiff	Tagged Image File Format	

Rendering Module	File Extension	Format	Comments
Aspose	vsd	Visio 2003-2010 Drawing	
Aspose	vsdx	MS Visio Drawing	
Aspose	xls	MS Excel 97-2003 Workbook	
Aspose	xlsx	MS Excel Workbook	
AutoVue	bmp	Bitmap Image	Supported for rendition output
AutoVue	cel	MicroStation Cell Library File	AutoVue 3D Only
AutoVue	cg4	CALS Group IV Bitmap Graphics Format	
AutoVue	cit	Intergraph Format Image	
AutoVue	dgn	MicroStation Design File	
AutoVue	doc	MS Word 97-2003 Document	
AutoVue	docx	MS Word Document	
AutoVue	dwg	Autodesk AutoCAD drawing	
AutoVue	dxf	Drawing Exchange Format File	
AutoVue	fax	CALS Raster Graphic	
AutoVue	gif	Graphics Interchange Format	
AutoVue	gp4	CCITT Group 4 Fax	
AutoVue	ipn	Autodesk Inventor Presentation File	AutoVue 3D Only
AutoVue	ipt	Autodesk Inventor Part File	AutoVue 3D Only

Rendering Module	File Extension	Format	Comments
AutoVue	jpg	JPEG File Interchange Format	
AutoVue	mil	Group 4 Fax	
AutoVue	msg	MS Outlook Mail Message	
AutoVue	pdf	Portable Document Format File	Supported for rendition output
AutoVue	png	Portable Network Graphics Format	
AutoVue	ppt	MS PowerPoint 97-2003 Presentation	
AutoVue	pptx	MS PowerPoint Presentation	
AutoVue	rlc	Run Length Coding	
AutoVue	rtf	Rich Text Format File	
AutoVue	sldasm	SolidWorks Assembly File	AutoVue 3D Only
AutoVue	slddrw	SolidWorks Drawing File	
AutoVue	sldprt	SolidWorks Part File	AutoVue 3D Only
AutoVue	tif	Tagged Image File Format	Supported for rendition output. Uncompressed, PackBits, FAX III, and FAX IV sub-formats.
AutoVue	txt	Plain Text File	
AutoVue	vsd	Visio 2003-2010 Drawing	
AutoVue	wmf	Windows Metafile	
AutoVue	xls	MS Excel 97-2003 Workbook	
AutoVue	xlsm	MS Excel Macro-Enabled Workbook	



Rendering Module	File Extension	Format	Comments
AutoVue	xlsx	MS Excel Workbook	
AutoVue	xlt	MS Excel 97-2003 Template	
AutoVue	xltm	MS Excel Macro-Enabled Template	
AutoVue	xltx	MS Excel Template	
Custom Render Engine	Other formats		
Forge	dgn	MicroStation Design File	
Forge	dwf	Design Web Format File	AutoCAD - plain
Forge	dwg	Autodesk AutoCAD drawing	AutoCAD - plain
Forge	iam	Autodesk Inventor Assembly File	
Forge	idw	Autodesk Inventor Drawing File	
Forge	ipn	Autodesk Inventor Presentation File	
Forge	ipt	Autodesk Inventor Part File	
Forge	rvt	Revit Project File	
Forge	sldasm	SolidWorks Assembly File	
Forge	slddrw	SolidWorks Drawing File	
Native AutoCAD renderer	dwf	Design Web Format File	AutoCAD - plain
Native AutoCAD renderer	dwg	Autodesk AutoCAD drawing	AutoCAD - plain AutoCAD - verticals
Native Inventor renderer	dwg	Autodesk AutoCAD drawing	

Rendering Module	File Extension	Format	Comments
Native Inventor renderer	iam	Autodesk Inventor Assembly File	
Native Inventor renderer	idw	Autodesk Inventor Drawing File	
Native Inventor renderer	ipn	Autodesk Inventor Presentation File	
Native Inventor renderer	ipt	Autodesk Inventor Part File	
Native Microstation renderer	dgn	MicroStation Design File	
Native Office renderer	doc	MS Word 97-2003 Document	
Native Office renderer	docx	MS Word Document	
Native Office renderer	ppt	MS PowerPoint 97-2003 Presentation	
Native Office renderer	pptx	MS PowerPoint Presentation	
Native Office renderer	vsd	Visio 2003-2010 Drawing	
Native Office renderer	vsdx	MS Visio Drawing	
Native Office renderer	xls	MS Excel 97-2003 Workbook	
Native Office renderer	xlsx	MS Excel Workbook	
Native Revit renderer	rvt	Revit Project File	
Native SolidWorks renderer	sldasm	SolidWorks Assembly File	
Native SolidWorks renderer	slddrw	SolidWorks Drawing File	
PDFSharp	jpeg	JPEG File Interchange Format	
PDFSharp	jpg	JPEG File Interchange Format	

Rendering Module	File Extension	Format	Comments
PDFSharp	png	Portable Network Graphics Format	
PDFSharp	tif	Tagged Image File Format	
PDFSharp	tiff	Tagged Image File Format	
Teigha	dgn	MicroStation Design File	Teigha DGN module only.
Teigha	dwf	Design Web Format File	AutoCAD - plain Teigha DWG module only.
Teigha	dwg	Autodesk AutoCAD drawing	AutoCAD - plain Teigha DWG module only.
Teigha	dxf	Drawing Exchange Format File	Teigha DWG module only.

## File Extensions and Modules That Support Them

In the table below, each file extension is listed along with the modules that support it.

**File Extensions and Modules That Support Them**

File Extension	Format	Rendering Module	Comments
bmp	Bitmap Image	AutoVue	Supported for rendition output
cel	MicroStation Cell Library File	AutoVue	AutoVue 3D only
cg4	CALS Group IV Bitmap Graphics Format	AutoVue	
cit	Intergraph Format Image	AutoVue	
dgn	MicroStation Design File	AutoVue	
dgn	MicroStation Design File	Forge	
dgn	MicroStation Design File	Native Microstation renderer	
dgn	MicroStation Design File	Teigha	Teigha DGN module only.
doc	MS Word 97-2003 Document	Aspose	
doc	MS Word 97-2003 Document	AutoVue	
doc	MS Word 97-2003 Document	Native Office renderer	
docx	MS Word Document	Aspose	
docx	MS Word Document	AutoVue	
docx	MS Word Document	Native Office renderer	

File Extension	Format	Rendering Module	Comments
dwf	Design Web Format File	ACME CAD	AutoCAD - plain ACME CAD license required.
dwf	Design Web Format File	Forge	AutoCAD - plain
dwf	Design Web Format File	Native AutoCAD renderer	AutoCAD - plain
dwf	Design Web Format File	Teigha	AutoCAD - plain Teigha DWG module only.
dwg	Autodesk AutoCAD drawing	ACME CAD	AutoCAD - plain ACME CAD license required.
dwg	Autodesk AutoCAD drawing	AutoVue	
dwg	Autodesk AutoCAD drawing	Forge	AutoCAD - plain
dwg	Autodesk AutoCAD drawing	Native AutoCAD renderer	AutoCAD - plain AutoCAD - verticals
dwg	Autodesk AutoCAD drawing	Native Inventor renderer	
dwg	Autodesk AutoCAD drawing	Teigha	AutoCAD - plain Teigha DWG module only.
dxf	Drawing Exchange Format File	ACME CAD	ACME CAD license required.
dxf	Drawing Exchange Format File	AutoVue	
dxf	Drawing Exchange Format File	Teigha	Teigha DWG module only.
fax	CALS Raster Graphic	AutoVue	
gif	Graphics Interchange Format	AutoVue	

File Extension	Format	Rendering Module	Comments
gp4	CCITT Group 4 Fax	AutoVue	
htm	Web Page	Aspose	
html	Web Page	Aspose	
iam	Autodesk Inventor Assembly File	Forge	
iam	Autodesk Inventor Assembly File	Native Inventor renderer	
idw	Autodesk Inventor Drawing File	Forge	
idw	Autodesk Inventor Drawing File	Native Inventor renderer	
ipn	Autodesk Inventor Presentation File	AutoVue	AutoVue 3D only
ipn	Autodesk Inventor Presentation File	Forge	
ipn	Autodesk Inventor Presentation File	Native Inventor renderer	
ipt	Autodesk Inventor Part File	AutoVue	AutoVue 3D only
ipt	Autodesk Inventor Part File	Forge	
ipt	Autodesk Inventor Part File	Native Inventor renderer	
jpeg	JPEG File Interchange Format	Aspose	
jpeg	JPEG File Interchange Format	PDFSharp	
jpg	JPEG File Interchange Format	Aspose	
jpg	JPEG File Interchange Format	AutoVue	
jpg	JPEG File Interchange Format	PDFSharp	

File Extension	Format	Rendering Module	Comments
mil	Group 4 Fax	AutoVue	
msg	MS Outlook Mail Message	AutoVue	
Other formats		Custom Render Engine	
pdf	Portable Document Format File	AutoVue	Supported for rendition output
png	Portable Network Graphics Format	Aspose	
png	Portable Network Graphics Format	AutoVue	
png	Portable Network Graphics Format	PDFSharp	
ppt	MS PowerPoint 97-2003 Presentation	Aspose	
ppt	MS PowerPoint 97-2003 Presentation	AutoVue	
ppt	MS PowerPoint 97-2003 Presentation	Native Office renderer	
pptx	MS PowerPoint Presentation	Aspose	
pptx	MS PowerPoint Presentation	AutoVue	
pptx	MS PowerPoint Presentation	Native Office renderer	
rlc	Run Length Coding	AutoVue	
rtf	Rich Text Format File	AutoVue	
rvt	Revit Project File	Forge	
rvt	Revit Project File	Native Revit renderer	
sldasm	SolidWorks Assembly File	AutoVue	AutoVue 3D only

File Extension	Format	Rendering Module	Comments
sldasm	SolidWorks Assembly File	Forge	
sldasm	SolidWorks Assembly File	Native SolidWorks renderer	
slddrw	SolidWorks Drawing File	AutoVue	
slddrw	SolidWorks Drawing File	Forge	
slddrw	SolidWorks Drawing File	Native SolidWorks renderer	
sldprt	SolidWorks Part File	AutoVue	AutoVue 3D only
tif	Tagged Image File Format	Aspose	
tif	Tagged Image File Format	AutoVue	Supported for rendition output. Uncompressed, PackBits, FAX III, and FAX IV sub-formats.
tif	Tagged Image File Format	PDFSharp	
tiff	Tagged Image File Format	Aspose	
tiff	Tagged Image File Format	PDFSharp	
txt	Plain Text File	AutoVue	
vsd	Visio 2003-2010 Drawing	Aspose	
vsd	Visio 2003-2010 Drawing	AutoVue	
vsd	Visio 2003-2010 Drawing	Native Office renderer	
vsdx	MS Visio Drawing	Aspose	
vsdx	MS Visio Drawing	Native Office renderer	
wmf	Windows Metafile	AutoVue	



File Extension	Format	Rendering Module	Comments
xls	MS Excel 97-2003 Workbook	Aspose	
xls	MS Excel 97-2003 Workbook	AutoVue	
xls	MS Excel 97-2003 Workbook	Native Office renderer	
xlsm	MS Excel Macro-Enabled Workbook	AutoVue	
xlt	MS Excel 97-2003 Template	AutoVue	
xltm	MS Excel Macro-Enabled Template	AutoVue	
xltx	MS Excel Template	AutoVue	
xslx	MS Excel Workbook	Aspose	
xslx	MS Excel Workbook	AutoVue	
xslx	MS Excel Workbook	Native Office renderer	

## Brava! Desktop Supported File Formats

The Brava! viewer supports the file following file formats when integrated with Accruent products. This list is a subset of the [supported formats](#) listed on the IGC website.

### Supported file formats

Format	Version	Extension
Adobe Acrobat		pdf
AutoCAD drawing	Up to 2014	dwg
AutoCAD Slide		sld
Autodesk Inventor drawing		idw
CADKEY		prt
CALS Type II		cal
CCITT Group 4		cit
CompuServe GIF		gif
Computer Graphics Metafile		cgm
dBASE		dbf
Drawing Exchange Format	Up to 2014	dxf
Drawing Web Format	Up to 2014	dwf
HPGL		plt
JPEG		jpg
Microsoft Excel	Up to 2013	xls, xlsx
Microsoft PowerPoint		ppt
Microsoft Visio	Up to 2013	vsd
Microsoft Word	Up to 2013	doc, docx
MicroStation drawing	Version 8.11, including XM, V8i	dgn
Paintbrush		pcx
Portable Network Graphics		png

Format	Version	Extension
Rich Text Format		rtf
SolidWorks drawing (2D)	Versions 97 - 2011	slddrw
Tagged Image File Format		tif
Targa		tga
Text	Unicode & ASCII	txt
Windows 3.1 Write		wri
Windows bitmap		bmp
Windows Icon		ico
Windows metafile		wmf, emf
WordPerfect		wpd, wp6, w51

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**Accruent, LLC**

11500 Alterra Parkway

Suite 110

Austin, TX 78758

[www.accruent.com](http://www.accruent.com)