



BLUECIELO MERIDIAN ENTERPRISE 2015

Supported Software

Reference



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CONTENTS

Legal Notice	i
Contents	ii
1 Introduction	1
1.1 Legend	1
1.2 Getting technical support	2
1.3 Current support life cycle status	2
2 Operating systems	4
3 Remote access systems	6
4 Authoring applications	7
4.1 AutoCAD family applications	8
5 Email applications	12
6 Web client applications	13
7 Database management systems	14
8 Languages	16
9 Oracle AutoVue	17
10 Third-party viewers	19
11 Meridian Asset Management Module	21
12 Meridian Advanced Project Workflow Module	22
13 Meridian Email Manager	23
14 BlueCielo Explorer	24
15 Meridian FDA Module	25
16 Meridian Global Collaboration Framework	26
17 BlueCielo Publisher rendering applications	27
18 BlueCielo Publisher system links	29
19 Meridian Transmittal Management Module	30
Appendix A: System requirements cross-references	31
Appendix B: AutoVue rendering module supported formats	32
Appendix C: Brava! desktop supported file formats	34



1 INTRODUCTION

This document lists the supported applications and features of the BlueCielo Meridian Enterprise product suite for release 2015. 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 BlueCielo ECM Solutions [Technical Library](#). We publish this document to enable customers to plan for deploying BlueCielo 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 BlueCielo Meridian Enterprise product suite:

This document details the operating systems, database management systems, and client applications supported by BlueCielo Meridian Enterprise:

- BlueCielo Meridian Enterprise
- Meridian Advanced Project Workflow Module
- Meridian Asset Management Module
- Meridian Email Manager
- BlueCielo Explorer
- Meridian FDA Module
- Meridian Global Collaboration Framework
- BlueCielo Publisher
- Meridian Transmittal Management Module

Note Beginning with release 2014, Meridian Enterprise, Meridian Explorer, BlueCielo Publisher, and Meridian Global Collaboration Framework 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 BlueCielo product. Moreover, some applications, versions, or combinations might be compatible with BlueCielo products but have not been tested by BlueCielo and are therefore not supported. In all cases, technical support from BlueCielo is only provided as described in "Getting technical support" on page 2.

Unless specifically stated otherwise, this policy applies to all BlueCielo customers unless superseded by a different written and signed agreement between BlueCielo ECM Solutions and the customer.

Some BlueCielo 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 BlueCielo products. BlueCielo ECM Solutions is not responsible for the installation, operation, and licensing of third-party software.

1.1 Legend

The following typographical combinations are used in the tables in this document.



Legend

Convention	Description
✓	Tested and supported combination.
✗	Unsupported combination. Known to have limitations or cause problems.
Number	See notes at the end of each section.

1.2 Getting technical support

Technical support for BlueCielo 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 BlueCielo software before contacting outside sources of support. If your company works with a BlueCielo Partner, that partner is your second source of support. BlueCielo Partners are responsible for providing technical support to their customers in order to maintain their status as BlueCielo Partners. BlueCielo will assist the partner company, if necessary, to help resolve your problem. If your company is a direct BlueCielo customer, your authorized contacts may communicate directly with BlueCielo to resolve your problem.

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

- Online Issue Registration System – Around the clock support issue entry, update, and status.
- Knowledge base – Continuously updated problem solutions, service packs, hotfixes, and how-to articles about advanced techniques.
- FTP server – Downloadable versions of all BlueCielo products and an upload area for files to assist with problem resolution.
- Email notifications – Immediate alerts to support issue status changes and new or changed knowledge base articles.
- Telephone support – Direct access to highly qualified software support engineers with extensive experience in BlueCielo products.
- BlueCielo customer forum – Online user-led discussions about BlueCielo products.

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

1.3 Current support life cycle status

The following table indicates the new life cycle status of supported versions as of the release date of version 2015. These statuses apply to the products listed in “Introduction” on page 1 and also to minor releases and service packs.

Expected future status changes are estimates only. 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	Full Support	End of Life Announced	End of Life Initiated	End of Life
2015	✓	July 1, 2016	July 1, 2017	July 1, 2018
2014		✓	July 1, 2016	July 1, 2017
2013			✓	July 1, 2016
2012				✓



2 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 BlueCielo to only support current Windows versions because testing and supporting BlueCielo products with specific Windows versions requires a considerable amount of time and resources. BlueCielo 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 BlueCielo. In that phase, it is not possible to get support from BlueCielo other than through the BlueCielo knowledge base.

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 BlueCielo.

Support for Microsoft service packs is not addressed in this policy. For each version of BlueCielo 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 BlueCielo product version.

Unless otherwise specified, the listed operating systems are supported by BlueCielo 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.
- BlueCielo ECM Solutions 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. 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 *BlueCielo Meridian Enterprise Administrator's Guide*.
- While BlueCielo 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 BlueCielo 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. BlueCielo 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 BlueCielo Publisher is compatible with. When installed together with Meridian Explorer,



we recommend that BlueCielo 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 BlueCielo 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.

Warning 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.

Supported operating systems

Operating System	Meridian Enterprise	Meridian Explorer	BlueCielo Publisher
Client (32-bit & 64-bit)			
Windows 10	✓	✓	✓
Windows 8, 8.1	✓	✓	✓
Windows 7	✓	✓	✓
Windows Vista with SP2	✓	✗	✗
iOS 6 and higher ²	✗	✓	✗
Client & Server (64-bit only)			
Windows Server 2012 R2	✓	✓	✓
Windows Server 2012 (incl. Core Edition)	✓	✓	✓
Windows Server 2008 R2	✓	✓	✓
Windows Server 2008 with SP1, SP2	✓	✓	✓
Microsoft Hyper-V	✓	✓	✓
VMware Workstation ¹	✓	✓	✓
VMware ESX Server	✓	✓	✓

Notes

1. Running the Meridian server software with VMware is conditionally supported for all versions of VMware including VMware ESX.
2. Supported on the iPad only when viewing the special iPad website of Meridian Explorer. Also see [BlueCielo Meridian Explorer](#) on the iTunes website.



3 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 Citrix Delivery Center 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.

Following is a list of remote access systems for which Meridian Enterprise has been specifically tested or certified.

Remote access systems

Version	Description
Citrix XenApp 7.5	Certified Citrix Ready Also see the Citrix Marketplace
Citrix XenDesktop 7.5	
Citrix XenDesktop 7 App Edition	

For information about deploying Meridian Enterprise with remote access systems, see the *BlueCielo Meridian Enterprise Administrator's Guide*.



4 AUTHORING APPLICATIONS

The following table lists the document authoring application versions that are supported by specific application links in this release of BlueCielo 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" on page 17.
- Support for both 32-bit and 64-bit versions

Applications are tested extensively with each release of Meridian Enterprise. Typically, BlueCielo supports the latest three major versions of applications. BlueCielo 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

Application Version	Support
Autodesk Revit (Architecture, Structure, MEP)¹	
2016	✓
2015	✓
2014	✓
2013	✓
Autodesk Inventor and Inventor Professional	
2016	✓ ²
2015	✓ ²
2014	✓
2013 SP 1 – 2	✓
Bentley MicroStation	



Supported authoring applications (continued)

Application Version	Support
8.11 (V8i, SELECTseries 1, 2, 3)	✓
8.09 (V8 XM)	✓
8.05 (V8.5)	✓
8.01 (V8 2004)	✓
8.00 (V8)	✓
Microsoft Office⁴	
2016	✓
2013	✓
2010	✓
SolidWorks	
2016	✓ ³
2015 SP 1 – 4	✓ ³
2014 SP 1 – 3	✓ ³
2013 SP 1 – 4	✓

1. As of the date this document was published, viewing of this file type was not yet supported by Oracle AutoVue.
2. As of the date this document was published, viewing of this file type was not yet supported by Oracle AutoVue. We recommend Autodesk Inventor View instead.
3. As of the date this document was published, viewing of this file type was not yet supported by Oracle AutoVue. we recommend the eDrawings viewer instead. Only the first sheet of multi-sheet drawings will be shown.
4. As of the date this document was published, viewing the Visio file type was not yet supported by Oracle AutoVue.

4.1 AutoCAD family applications

The following table lists the Autodesk AutoCAD family application versions that are supported by specific application links in this release of BlueCielo Meridian Enterprise.

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.
- Viewing of the application's file formats in Meridian Enterprise is provided by "Oracle AutoVue" on page 17 or AutoVue 3D Professional.
- 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, BlueCielo supports the latest three major versions of applications. BlueCielo 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. 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 BlueCielo 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 BlueCielo ECM Solutions [Technical Library](#).

Supported AutoCAD family applications

Application Version	Support
AutoCAD	
2016 SP1	✓
2015	✓
2014	✓
2013 SP 1 – 2	✓
AutoCAD LT¹	
All versions	✗
AutoCAD Architecture	
2015	✓
2014	✓



**Supported AutoCAD
family applications (con-
tinued)**

Application Version	Support
2013 SP 1 – 2	✓
AutoCAD Civil 3D	
2016	✓
2015	✓
2014	✓
2013	✓
AutoCAD Electrical²	
2015	✓
2014	✓
2013 SP 1 – 2	✓
AutoCAD Map 3D	
2016	✓
2015	✓
2014	✓
2013 SP 1	✓
AutoCAD Mechanical	
2015	✓
2014	✓
2013 SP 1 – 2	✓
AutoCAD MEP	
2015	✓
2014	✓
2013 SP 1 – 2	✓
AutoCAD P&ID^{2,3}	
2016 ⁴	✓
2015 ⁴	✓
2014 ⁴	✓



Supported AutoCAD family applications (continued)

Application Version	Support
2013 SP 1 ⁴	✓
AutoCAD Plant 3D	
2016	✓
2015	✓
2014	✓
2013	✓
AutoCAD Raster Design	
2016	✓
2015	✓
2014	✓

Notes

1. AutoCAD LT does not support the Application Runtime Extension (ARX) technology upon which Meridian Enterprise AutoCAD link is based. Therefore, none of the AutoCAD link functionality normally available from within AutoCAD is supported for AutoCAD LT. However, link functionality (for example, property synchronization) executed from within the Meridian Enterprise clients does work with AutoCAD LT files.
2. Synchronization of project file references is also supported.
3. Synchronization of project file properties is also supported.
4. Supports Meridian Asset Management Module object tags.



5 EMAIL APPLICATIONS

Meridian Enterprise includes client-based application links for the following email client applications:

Microsoft Office Outlook

Version
Microsoft Office Outlook 2013
Microsoft Office Outlook 2010

IBM Lotus Notes

Version
IBM Lotus Notes 10.x
IBM Lotus Notes 9.x
IBM Lotus Notes 8.x



6 WEB CLIENT APPLICATIONS

The Meridian Enterprise web client applications require:

Supported web servers

Version	Meridian Enterprise	Meridian Explorer	BlueCielo Publisher
Internet Information Services 8.5	✓	✓	✓
Internet Information Services 8	✓	✓	✓
Internet Information Services 7.5	✓	✓	✓
Internet Information Services 7	✓	✓	✓
Internet Information Services 6	✓	✓	✓

Supported web browsers

Version	Meridian Enterprise	Meridian Explorer	BlueCielo Publisher
Internet Explorer 11	✓ ¹	✓ ³	✓
Internet Explorer 10	✓ ¹	✓ ³	✓
Internet Explorer 9	✓	✓ ³	✓
Mozilla Firefox	✗	✓ ²	✓
Google Chrome	✗	✓ ²	✓
Apple Safari	✗	✓ ^{2,4}	✓

Notes

1. On Windows 64-bit operating systems, Internet Explorer 10 and 11 open web pages in 32-bit processes only. This is for backward compatibility with ActiveX components. Therefore, Meridian Enterprise installs and runs 32-bit components, particularly for viewing documents.
2. Document content viewing is only supported with AutoVue Client/Server. The built-in PDF viewers in these browsers are not compatible with BlueCielo products.
3. Supported only in **Edge** document mode with the site added to the **Compatibility View** list. For information about possible workarounds, see "[How to fix browser detection on a BlueCielo Explorer web server](#)" in the BlueCielo knowledgebase.
4. The Apple iPad is supported by a dedicated Meridian Explorer website that can be created by a system administrator. Devices running iOS 7 & 8 are supported.



7 DATABASE MANAGEMENT SYSTEMS

BlueCielo Meridian Enterprise supports the following database management systems for external table and user databases on the server and for local workspace databases on the client PCs.

Supported versions of Microsoft SQL Server Compact Edition

Version ¹	2013	2014	2015
SQL Server Compact Edition 4.0	✗	✗	✓
SQL Server Compact Edition 3.5	✓	✓	✓

BlueCielo Meridian Enterprise supports the following database management systems for vault databases.

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

Version ¹	Meridian Enterprise	Meridian Explorer ³	BlueCielo Publisher
SQL Server 2014	✓	✓	✓
SQL Server 2012	✓	✓	✓
SQL Server 2008(SP0, SP1, SP2, R2)	✓	✓	✓
SQL Server 2005(SP0, SP1, SP2)	✗	✗	✓ ⁴

Supported versions of Oracle

Version ²	Meridian Enterprise	Meridian Explorer	BlueCielo Publisher
Oracle 12c Release 1 for Microsoft Windows	✓	✓	✓
Oracle 11g Release 2 for Microsoft Windows	✓	✓	✓
Oracle 11g Release 1 for Microsoft Windows	✓	✗	✓
Oracle 10g Release 2 (10.2) for Microsoft Windows	✓	✗	✓ ⁴
Oracle 10g Release 1 (10.1) for Linux x86	✓	✗	✗

Notes

1. The Express editions of SQL Server are supported for evaluation, development, and demonstration purposes only. BlueCielo does not test the Express editions for compatibility, performance, stability, or scalability. In a production environment, the Standard, Enterprise, or Datacenter edition of SQL Server must be used.
2. We assume that non-Windows versions of Oracle are compatible with the Windows versions (as pertains to Meridian Enterprise compatibility). BlueCielo supports non-Windows configurations, but does not test them. For more information on testing and supporting non-Windows versions, contact BlueCielo Technical Support.



The Oracle Text component is not installed by default, but is required for the Meridian Explorer full-text search feature.

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

3. 64-bit only

Case-sensitive collation is not supported.

The Full Text Search component is not installed by default, but recommended. The Full Text Search component is only included in SQL Server Express with Advanced Services.

Microsoft SQL Server 2008 R2 and higher 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.

4. Although there are no known issues, supported only for existing installations.



8 LANGUAGES

BlueCielo Meridian Enterprise supports the following languages.

Supported languages

Language	Meridian Enterprise ²	Meridian Explorer ¹	BlueCielo Publisher	Documentation
Brazilian Portuguese	✓	✓	✓	✗
Chinese (standard Mandarin)	✗	✓	✓	✗
English	✓	✓	✓	✓
Finnish	✓	✓	✓	✗
French	✓	✓	✓	✗
Dutch	✗	✓	✓	✗
German	✓	✓	✓	✗
Italian	✓	✓	✓	✗
Japanese	✓	✓	✓	✗
Korean	✓	✗	✗	✗
Polish	✓	✓	✗	✗
Russian	✓	✗	✗	✗
Spanish	✓	✓	✓	✗
Swedish	✓	✗	✗	✗

Notes

- BlueCielo ECM Solutions 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.
1. The Meridian Explorer mobile device website only supports the English language.
 2. Meridian Enterprise full-text search supports all of the same languages as Windows Search except Chinese.



9 ORACLE AUTOVUE

This release of Meridian Enterprise includes AutoVue 20.2.3 for 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 BlueCielo Publisher, see “AutoVue rendering module supported formats” on page 32.

The AutoVue 3D Professional Advanced components are also included and the additional cost licenses are available from BlueCielo ECM Solutions. A list of the additional file formats supported by AutoVue 3D Professional Advanced can be found at the link above.

Notes

- When AutoVue is installed as a desktop deployment, the version of the Java Runtime Environment that is included with AutoVue is installed by the Meridian Enterprise setup program in the `Cyco Shared\AutoVue\JRE` folder. That version 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).

- Legacy BlueCielo viewer redlines and AutoVue redlines are incompatible and cannot be used interchangeably for the same file formats. If BlueCielo 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 BlueCielo 64-bit client applications. The AutoVue Client/Server viewer can be configured in such cases.

The versions of Oracle AutoVue that are supported by the BlueCielo products that use it are listed in the following table. All version numbers represent both the AutoVue desktop version and AutoVue client/server version unless otherwise noted.

Supported versions of Oracle AutoVue

BlueCielo Product	AutoVue 20.2.0	AutoVue 20.2.1	AutoVue 20.2.2 ⁵	AutoVue 20.2.3 ⁵
Meridian Enterprise				
2015	✗	✓ ^{1,3}	✓ ²	✓ ²
2014 SP1	✗	✓ ^{1,3}	✓ ²	✓ ²
2014	✗	✓ ^{1,3}	✓ ²	✓ ²
2013 SP1	✗	✓ ^{1,3}	✓ ²	✓ ²
2013	✗	✓	✗	✗
Meridian Explorer/BlueCielo Publisher/Meridian Enterprise Server				
2014 SP1	✗	✗	✓	✓
2014	✗	✗	✓	✓



Supported versions of Oracle AutoVue (continued)

BlueCielo Product	AutoVue 20.2.0	AutoVue 20.2.1	AutoVue 20.2.2 ⁵	AutoVue 20.2.3 ⁵
2013	✗	✗	✓	✓
Java Virtual Machine				
Java Platform Standard Edition	6 update 26	7 update 5 ⁴ 6 update 31	7 update 11 and higher ⁴ 6 update 38	8 and higher 7 update 45 and higher

Notes

1. Desktop version only.
2. Client/server version only.
3. The latest version of AutoVue Desktop that was available when Meridian Enterprise was released.
4. 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.

5. Industry Foundation Classes (IFC) files generated by Autodesk Revit that contain encoded comments are not supported.

Meridian Enterprise and Meridian Enterprise Server support deployment of AutoVue Client/Server. For more information, see the *BlueCielo Meridian Enterprise Administrator's Guide* and the *BlueCielo Meridian Enterprise Server Administrator's Guide*.



10 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.

The following third-party viewers (not included) are supported by Meridian Enterprise in addition to Oracle AutoVue, which is included with Meridian Enterprise.

Supported third-party viewers

Viewer Name
Adobe Reader ⁴ & Adobe Reader DC
Autodesk CAD Overlay ESP format ¹
Autodesk DWF Viewer
Autodesk DWG TrueView ⁶
Autodesk Inventor View 2010 or later
Autodesk NavisWorks Freedom ¹
AutoVue 3D Professional Advanced ²
GTX RasterCAD format ¹
Hitachi Raster format ¹
IGC Brava! Desktop ⁵
Kodak Image Viewer
Microstation DGN format
Microsoft Internet Explorer
SolidWorks eDrawings 2009 or later
TopSolid"Viewer ³
TSL CADRaster format ¹

Notes

BlueCielo does not test all versions of the viewers listed in the preceding table. Version numbers that are shown indicate the versions that have been tested by BlueCielo. 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.

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

1. Can be detected by Meridian Enterprise if support for it is installed on the computer . This is done by importing a registry file located in C:\Program Files\BC-



Meridian\Program\Viewers as described in the *BlueCielo Meridian Enterprise User's Guide*.

2. Not supported on 64-bit Windows. Three dimensional viewing is available from BlueCielo ECM Solutions as an additional cost option for AutoVue Enterprise Visualization. Each version of Meridian Enterprise is distributed with and supports specific versions of AutoVue.
3. Available upon request from BlueCielo ECM Solutions Technical Support.
4. 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.
5. The following features are limited or not yet supported:
 - Redlines
 - Renditions and 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:
 - Install Brava in a location other than the `Program Files` (default) folder
 - The user runs PowerUser as an administrator of the PC
 - A system administrator grants 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” on page 34.

6. Through version 2014. Version 2015 can cause the viewer toolbar buttons to “stick” and requires pressing Esc to use other toolbar buttons.



11 MERIDIAN ASSET MANAGEMENT MODULE

The Meridian Asset Management Module versions listed in the following table are supported by the Meridian Enterprise versions indicated.

Supported versions of Meridian Enterprise

Module Version	2013	2014	2015
Asset Management Module 2015	✗	✗	✓
Asset Management Module 2014	✗	✓	✗
Asset Management Module 2013	✓	✗	✗

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 BlueCielo 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	2013	2014	2015
IBM Maximo 7	✓	✓	✓
SAP/PM all versions	1	1	1

Notes

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



12 MERIDIAN ADVANCED PROJECT WORKFLOW MODULE

The Meridian Advanced Project Workflow Module versions listed in the following table are supported by the Meridian Enterprise versions indicated.

Supported versions of Meridian Enterprise

Module Version	2013	2014	2015
Advanced Project Workflow Module 2015	✗	✗	✓
Advanced Project Workflow Module 2014	✗	✓	✗
Advanced Project Workflow Module 2013	✓	✗	✗



13 MERIDIAN EMAIL MANAGER

The Meridian Email Manager versions listed in the following table are supported by the BlueCielo Meridian Enterprise versions indicated.

Supported versions of Meridian Enterprise

Module Version	2013	2014	2015
Email Manager 2015	✗	✗	✓
Email Manager 2014	✗	✓	✗
Email Manager 2013	✓	✗	✗

Meridian Email Manager supports most Internet Message Access Protocol (IMAP) compatible email servers. It has been tested with:

- Microsoft Exchange Server 2003 or later
- IBM Lotus Notes Server 6.5.6 or later
- Google Mail



14 BLUECIELO EXPLORER

The BlueCielo Explorer versions listed in the following table are supported by the Meridian Enterprise versions indicated.

Supported versions of Meridian Enterprise

Module Version	2013	2014	2015
Explorer 2015	✓	✓	✓
Explorer 2014	✓	✓	✓
Explorer 2013	✓	✓	✓

BlueCielo Explorer includes support for the AutoVue Client/Server versions listed in “Oracle AutoVue” on page 17. 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](#).

The following languages are supported by the BlueCielo Explorer client application user interface.

Supported languages

Language
Deutsch
Dutch
English
Français
Italian
Japanin
Polska
Portugalin
Spanish
Suomalaisia



15 MERIDIAN FDA MODULE

The Meridian FDA Module versions listed in the following table are supported by the Meridian Enterprise versions indicated.

Supported versions of Meridian Enterprise

Module Version	2013	2014	2015
FDA Module 2012	✗	✗	✓
FDA Module 2014	✗	✓	✗
FDA Module 2013	✓	✗	✗

The Meridian FDA Module supports the following server operating systems:

- Microsoft Windows 2003 Server or higher

The Meridian FDA Module supports the following web servers:

- Microsoft Internet Information Services (IIS) 6.0 or higher



16 MERIDIAN GLOBAL COLLABORATION FRAMEWORK

The Meridian Global Collaboration Framework versions listed in the following table are supported by the Meridian Enterprise versions indicated.

Supported versions of Meridian Enterprise

Module Version	2013	2014	2015
Global Collaboration Framework 2015	✓	✓	✓
Global Collaboration Framework 2014	✓	✓	✓

The following applications are supported as publishing destinations by the Meridian GCF/SharePoint Module versions indicated.

Supported versions of Microsoft SharePoint Server

Application Version	2014	2015
SharePoint Server 2013 (Foundation, Standard, Enterprise Editions)	✗	✗
SharePoint Server 2010 (Foundation, Standard, Enterprise Editions)	✓	✓
SharePoint Server 2007 (Standard and Enterprise Editions)	✗	✗

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

Supported versions of BlueCielo Project Portal

Application Version	2013	2014	2015
BlueCielo Project Portal 2012 SP2	✓	✓	✓



17 BLUECIELO PUBLISHER RENDERING APPLICATIONS

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

Supported rendering applications

Application Version	2013	2014	2014 SP1	2015
Acme CAD Converter				
8.6.5	✗	✗	✓	✓
Autodesk AutoCAD⁵				
2016	✗	✗	✗	✓
2015	✗	✓	✓	✓
2014	✓	✓	✓	✓
2013	✓	✓	✓	✓
Autodesk Inventor⁴				
2016	✗	✓	✓	✓
2015	✗	✓	✓	✓
2014	✓	✓	✓	✓
2013	✓	✓	✓	✓
Microsoft Office				
Office 2016	✓	✓	✓	✓
Office 2013	✓	✓	✓	✓
Office 2010	✓	✓	✓	✓
Oracle AutoVue^{1, 6}				
20.2.3	✗	✗	✗	✓
20.2.2	✓	✓	✓	✓
20.1.1	✗	✗	✗	✗
Autodesk Revit				
2015	✗	✗	✓	✓
2014	✗	✗	✓	✓
2013	✗	✗	✓	✓
Dassault Systèmes SolidWorks⁴				



Supported rendering applications (continued)

Application Version	2013	2014	2014 SP1	2015
2015	✓	✓	✓	✓
2014	✓	✓	✓	✓
2013	✓	✓	✓	✓

Notes

1. Supports both 2D viewing and 3D rendering (with optional licenses)
2. Windows User Account Control (UAC) must be disabled.
3. Publisher 2012 SP5 or higher
4. Supported in interactive mode only
5. Only the basic AutoCAD edition is supported (not AutoCAD Civil 3D, for example). Only one AutoCAD version and edition is supported per Publisher computer
6. The Oracle AutoVue rendering module is limited in the input and output file formats and versions that it supports compared to those that the AutoVue viewer supports. For specific formats, see "AutoVue rendering module supported formats" on page 32.



18 BLUECIELO PUBLISHER SYSTEM LINKS

The following applications are supported as publishing sources or destinations by the BlueCielo Publisher versions indicated.

Supported document repositories

Application Version	2013	2014	2015	2016
Meridian Enterprise vault	✓	✓	✓	✓
Windows file system	✓	✓	✓	✓
Legacy system (custom Visual Basic publishing module wrapper)	✗	✗	✗	✗
SharePoint Server 2013 (Foundation, Standard, Enterprise Editions) ¹	✗	✓	✓	✓
SharePoint Server 2010 (Foundation, Standard, Enterprise Editions)	✓	✓	✓	✓
SharePoint Server 2007 (Standard and Enterprise Editions)	✓	✗	✗	✗
BlueCielo Project Portal (Kronodoc) 2014 and higher	✗	✓ ²	✓	✓
IBM FileNet Panagon Content Services (5.4 and 5.5)	✗	✗	✗	✗
IBM FileNet P8 (4.0)	✗	✗	✗	✗
EMC Documentum 6.5	✗	✗	✗	✓
OpenText LLiveLink	✗	✗	✗	✗

Notes

1. The SharePoint system link supports SharePoint Online only as a destination system and only using claims-based authentication. Active Directory authentication is not supported.
2. BlueCielo Publisher 2014 SP1 and higher



19 MERIDIAN TRANSMITTAL MANAGEMENT MODULE

The Meridian Transmittal Management Module versions in the following table are supported by the Meridian Enterprise versions indicated.

Supported versions of Meridian Enterprise

Module Version	2013	2014	2015
Transmittal Management Module 2015	✗	✗	✓
Transmittal Management Module 2014	✗	✓	✗
Transmittal Management Module 2013	✓	✗	✗

The Meridian Transmittal Management Module supports the following database management systems for its transmittal database:

Supported versions of Microsoft SQL Server

Version ¹
SQL Server 2008 (32-bit and 64-bit versions)
SQL Server 2005 (32-bit and 64-bit versions) (SP0, SP1, SP2)

Notes

- The Express editions of SQL Server are supported for evaluation, development, and demonstration purposes only. BlueCielo does not test the Express editions for compatibility, performance, stability, or scalability. In a production environment, the Standard, Enterprise, or Datacenter edition of SQL Server must be used.

Supported versions of Oracle

Version ²
Oracle 11g Release 1 for Microsoft Windows
Oracle 10g Release 2 (10.2) for Microsoft Windows
Oracle 10g Release 1 (10.1) for Linux x86

Notes

- Oracle Real Application Clusters (RAC) is supported.
- We assume that non-Windows versions of Oracle are compatible with the Windows versions (from Meridian Enterprise's point of view). BlueCielo supports non-Windows configurations, but does not test them. For more information on testing and supporting non-Windows versions, contact BlueCielo Technical Support.



APPENDIX A: SYSTEM REQUIREMENTS CROSS-REFERENCES

Certain BlueCielo 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	Reference
BlueCielo Meridian Enterprise	<i>BlueCielo Meridian Enterprise System Requirements</i>	Chapter 3: "About the installation requirements"
BlueCielo Meridian Explorer	<i>BlueCielo Meridian Enterprise Server Administrator's Guide</i>	Chapter 3: "Understanding the Meridian Enterprise Server system requirements"
BlueCielo Publisher	<i>BlueCielo Meridian Enterprise Server Administrator's Guide</i>	Chapter 3: "Understanding the Meridian Enterprise Server system requirements"
BlueCielo Meridian Asset Management Module	<i>BlueCielo Meridian Asset Management Module Administrator's Guide</i>	Section 5.1: "Understanding the system requirements"
BlueCielo Meridian Global Collaboration Framework	<i>BlueCielo Meridian Global Collaboration Framework Administrator's Guide</i>	Section 3.1: "Understanding the system requirements"



APPENDIX B: AUTOVUE RENDERING MODULE SUPPORTED FORMATS

The AutoVue rendering module supports the file following input file formats. Formats shown in **bold** text are supported for rendition output. This list is a subset of the Oracle AutoVue supported formats listed on the Oracle [web site](#). 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 BlueCielo ECM Solutions Technical Support.

Supported file formats

Format	Extension
Autodesk Inventor Part File ¹	ipt
Autodesk Inventor Presentation File ¹	ipn
Bitmap Image	bmp
CALS Group IV Bitmap Graphics Format	cg4
CALS Raster Graphic	fax
CCITT Group 4 Fax	gp4
Drawing Exchange Format File	dxf
Graphics Interchange Format	gif
Group 4 Fax	mil
Intergraph Format Image	cit
JPEG File Interchange Format	jpg
MicroStation Cell Library File ¹	cel
MicroStation Design File	dgn
MS Excel Workbook	xlsx
MS Excel 97-2003 Template	xlt
MS Excel 97-2003 Workbook	xls
MS Excel Macro-Enabled Template	xltm
MS Excel Macro-Enabled Workbook	xlsm
MS Excel Template	xltx
MS Outlook Mail Message	msg
MS PowerPoint Presentation	pptx
MS PowerPoint 97-2003 Presentation	ppt
MS Visio Drawing	vsd

**Supported file formats (continued)**

Format	Extension
MS Word Document	docx
MS Word 97-2003 Document	doc
Portable Document Format File	pdf
Plain Text File	txt
Portable Network Graphics Format	png
Rich Text Format File	rtf
Run Length Coding	rlc
SolidWorks Assembly File ¹	sldasm
SolidWorks Drawing File	slddrw
SolidWorks Part File ¹	sldprt
Tagged Image File Format²	tif
Windows Metafile	wmf

1. AutoVue 3D only
2. Uncompressed, PackBits, FAX III, and FAX IV sub-formats



APPENDIX C: BRAVA! DESKTOP SUPPORTED FILE FORMATS

The Brava! viewer supports the file following file formats when integrated with BlueCielo 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
Rich Text Format		rtf
SolidWorks drawing (2D)	Versions 97 - 2011	slddrw
Tagged Image File Format		tif
Targa		tga
Text	Unicode & ASCII	txt

**Supported file formats (continued)**

Format	Version	Extension
Windows 3.1 Write		wri
Windows bitmap		bmp
Windows Icon		ico
Windows metafile		wmf, emf
WordPerfect		wpd, wp6, w51