



## BLUECIELO MERIDIAN ENTERPRISE 2014 - WHAT'S NEW

Overview of the new features in the BlueCielo Meridian Enterprise 2014 product suite

White paper



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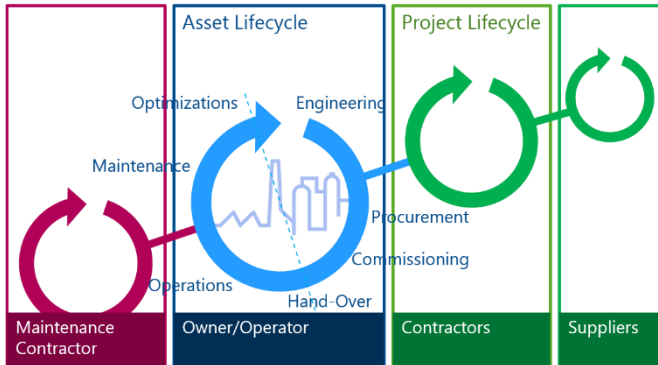
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## 1 INTRODUCTION

The BlueCielo Meridian Enterprise product suite consists of BlueCielo Meridian Enterprise 2014 and its modules. In this document, we briefly describe the highlights of this new release, which is generally available as of August 2014.



BlueCielo Meridian Enterprise is a versatile Engineering Content Management solution with a broad range of features, allowing various company types in multiple industries to optimize their business processes related to the creation, collaboration and distribution of engineering data. BlueCielo Meridian Enterprise is used as an Asset Information Management solution for owner/operators, as well as an Engineering Content Management solution for engineering contractors and equipment suppliers. This is possible through

the solution's many features, its great flexibility to be configured to specific user requirements and the availability of modules to address specific business needs.

With BlueCielo Meridian Enterprise, organizations can ensure that the latest revisions of the right documents are available to the right people. Fully CAD platform-independent, BlueCielo Meridian Enterprise provides flexible revision management, workflow support for projects and single documents, and a safe, secure environment for documents using a vault concept. In recent years, BlueCielo has expanded the solution to the enterprise level. This is reflected in the scalability of the solution as well as the possibilities for global collaboration. BlueCielo Meridian Enterprise allows working with both internal resources at various offices as well as external resources contributing to the projects.

The BlueCielo Meridian Enterprise 2014 release comes with several major functional enhancements and a large set of updates and improvements. New and enhanced functionality is described in this document for BlueCielo Meridian Enterprise and the various modules.

## 2 BLUECIELO MERIDIAN ENTERPRISE 2014

BlueCielo Meridian Enterprise 2014 (abbreviated to BlueCielo Meridian 2014 or Meridian 2014) comes with a new integrated setup, some major new features, and a variety of improvements with respect to usability, application integration, viewing and configurability.

The major new features and improvements made available in the 2014 release are:

- (CAD) Application integration enhancements
- Viewing improvements
- Usability improvements within the user access clients
- Support for multi-threading
- Configurability and customization enhancements
- Integrated Setup

The enhancements in BlueCielo Meridian Enterprise 2014 are described in more detail below. A more complete and detailed overview of changes can be found in the Release Notes distributed with the software.

### 2.1 Application Integration Enhancements

#### 2.1.1 Updated Application Support

The Office link now supports synchronizing document properties from the Windows (PowerUser) client to the Office 2007, 2010, 2013 applications (except for PowerPoint). Besides this improvement, the latest application versions are supported. A complete list of the supported operating systems, authoring applications, email applications, web client applications, database management systems, languages, viewers, and the BlueCielo Meridian versions supported by each version of the Meridian modules are provided in *BlueCielo Meridian Enterprise 2014 Supported Software*.

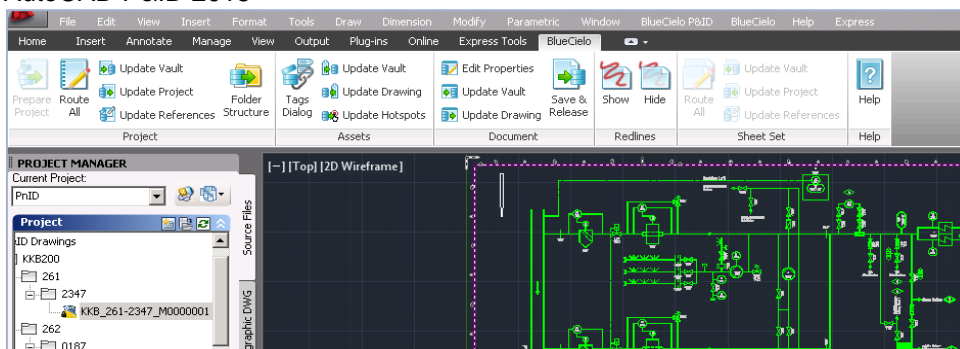
This document can be found in the Resource Center at our website:

<http://www.bluecieloecm.com/white-papers>.

#### 2.1.2 Updated CAD Support

One of the key capabilities of BlueCielo Meridian is CAD integration. Within each release, we support the latest versions of popular authoring applications with which Meridian integrates. The following CAD applications are now supported:

- AutoCAD 2015 (AutoCAD versions prior to 2010 are no longer supported)
- AutoCAD P&ID 2015



- In short, the AutoCAD P&ID link allows users to:
  - Synchronize drawing tags to and from asset objects in the vault
  - Synchronize (local or shared) workspace folder structures from the vault
  - Show the tags dialog box in AutoCAD P&ID for easy tag status review.

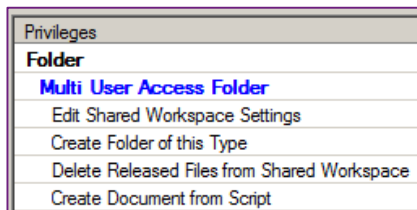
- As a further enhancement in the 2014 release, AutoCAD P&ID link can now be configured to search for specified project files and link them to the main project file so that they are copied to the local or shared workspace for use during engineering.
- AutoCAD Plant 3D 2015
- Autodesk Inventor 2015
- Autodesk Revit 2015
- SolidWorks 2014 SP1 and SP2
  - The SolidWorks link now synchronizes Meridian properties with the evaluated values of SolidWorks properties, instead of the static value or text expression.

See the full list of new CAD application versions supported by BlueCielo Meridian 2014 in the *BlueCielo Meridian Enterprise 2014 Supported Software*.

### 2.1.3 Shared Workspace

More and more, CAD applications use a database to manage the CAD data within multiple files. A project management shell is added to the application, for example, in AutoCAD P&ID and Civil 3D. To increase support for the overall engineering process within BC Meridian, while providing the CAD designer optimum use of the CAD application, we have introduced a new feature called shared workspaces.

Shared workspaces are ideal for CAD packages that allow multi-user access to files (e.g. Revit or databases) or have complex relationships not managed by BlueCielo Meridian (e.g. AutoCAD Civil 3D). In addition to local workspace, custom folder types configured in Meridian 2014 may now be associated with a network location outside the vault to act as a shared workspace. Files in progress through the CAD application can be placed on a shared network drive by redirecting parts of a local workspace.



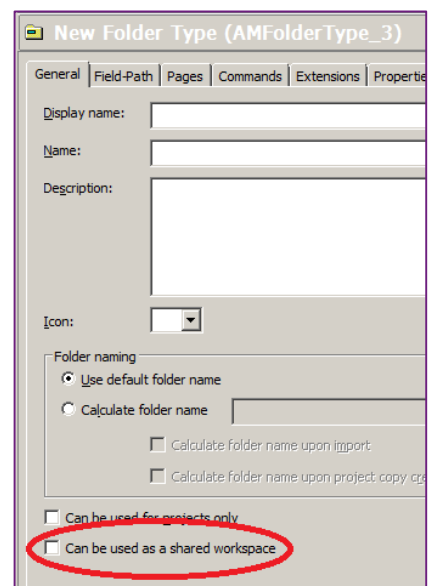
Existing vault documents are updated or synchronized:

- Manually within the client, on regular user operations requiring file content
- Automatically using a server based tool when the option **Synchronize automatically** is enabled

New vault documents are created:

- Manually when created inside client
- Automatically by the client **Sync Workspace** command if new files were created in the shared workspace folder
- Automatically by a server-based tool when the option **Allow automatic creation of new documents** is enabled.
- The document type is the first one that matches a configured file extension, or the default document type, if specified.

To use the Shared Workspace functionality, a separate BlueCielo Meridian Server license is required.



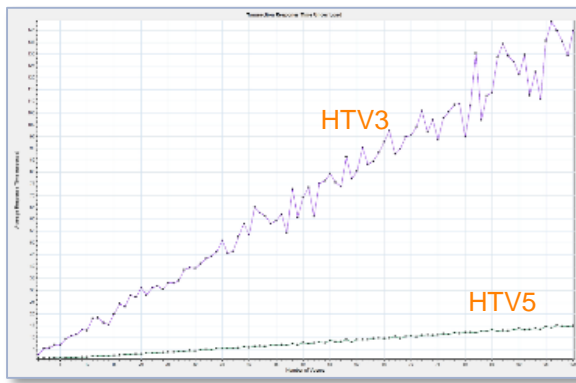
## 2.2 Viewer Improvements

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

- Oracle AutoVue Desktop Deployment 20.2.2 and Oracle AutoVue Client/Server Deployment 20.2.2 are the only viewers included in this release. The viewers are based on Java. AutoVue 2D Professional and AutoVue 3D Professional Advanced (based on Windows) have been discontinued by Oracle, Inc.
- Manual hotspot creation and editing are now supported in AutoVue Client/Server.

## 2.3 Support for Multi-threading (Hypertrieve 5)

We have introduced an update to the database engine named Hypertrieve 5. When enabled, multi-threaded read access to the data is performed. This means that multiple cores of the (64 bit) server can be used to handle calls to the Meridian database, which



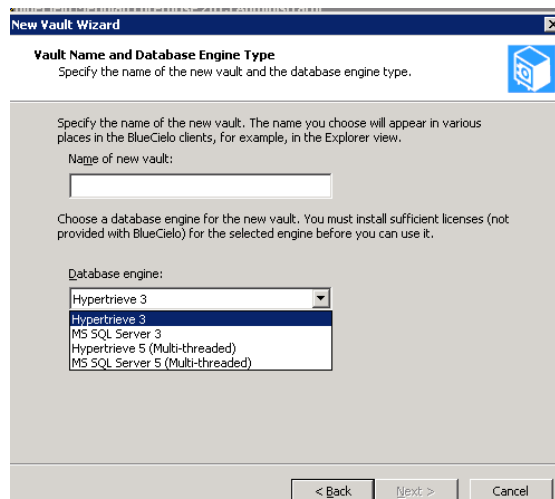
allows an increase in users and data supported by the vault. The graph shows the improvement of Hypertrieve 5 over Hypertrieve 3, where the average response time (vertical axis) is a result of the size of the vault and the number of concurrent users (horizontal axis). Overall, this results in a much faster response time and thus smoother behavior of BlueCielo Meridian even during very busy periods when many users are accessing the vault.

All three of the database engines (Hypertrieve, SQL Server and Oracle) have been programmed to take advantage of multi-threading on computers with multiple 64-bit CPUs and when BlueCielo Meridian Enterprise HyperCache is enabled. The new engines are not available for 32-bit computers or for older versions of BlueCielo Meridian.

The names of the new engines are:

- Hypertrieve 5
- MS SQL Server 5
- Oracle 5

Hypertrieve 5 is compatible with Hypertrieve 3 vaults and is optional for new vaults after upgrading to BlueCielo Meridian 2014. The new database engines can be selected when creating new vaults. Existing vaults are not upgraded automatically but can be migrated to the latest engine as described in the *BlueCielo Meridian Enterprise Administrator's Guide*.



## 2.4 Client Improvements

### 2.4.1 Windows Client / PowerUser Client

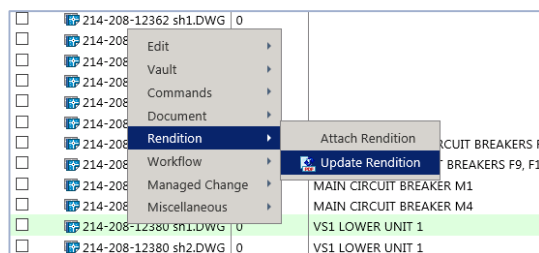
Office documents may include hyperlinks to other documents. When putting such a document under change, typically the document is placed within the local workspace. In the Meridian 2014 release, we now maintain these hyperlinks when the documents resides in a local workspace. This ensures the user has full use of the document content when making modifications.

Users can send an email from within the PowerUser client. If Microsoft Outlook is installed on the same PC, the shortcut to the document is automatically added to the message. The recipient can click the link to open the document in PowerUser and view the content with AutoVue.

Security roles are configured for access to Meridian 2014. To improve management of security role assignments, new **Export**, **Import**, and **Clear** buttons have been added to the **Assign Roles** dialog box in the PowerUser client. They allow you to either clear an existing security role or to export an existing role and to import its assignments as the basis for a newly created role.

### 2.4.2 Web Client

Besides the BlueCielo Meridian capabilities for Engineering Content Management, the Meridian 2014 Web Client supports the capabilities of the Asset Management Module, Advanced Project Workflow Module, and the FDA Module. New in the 2014 release is a tab that shows the related tags of a document or the related documents of a tag.



BlueCielo Meridian 2014 version also provides rendition support, allowing users to update a rendition (PDF version of the native document) from within the web client. To make the rendition, the BlueCielo Publisher is required.

Usability enhancements for the BlueCielo Meridian 2014 Web Client:

- Column filtering within the search dialog, allowing “search within search”
- Shift+click to select multiple items for batch operations
- The **References** dialog box includes a status icon and the revision number next to each document.

## 2.5 Configuration Improvements

To improve the BlueCielo Meridian environment to your specific business needs, we have included the following new configuration options within the 2014 release:

- The folder **Rename** privilege now controls editing folder properties.
- The **Message** text box of email notification definitions now accepts the Enter key to create a new line of text.
- Configuration branch security may now be applied to the Field-Path definition and script editing options in BlueCielo Meridian Enterprise Configurator.
- Custom folder properties can be included in the visibility filter of a workflow transition.
- A new document privilege named **Unlock from Project** has been added.
- A new option **Exclude hard-to-read characters** has been added to document type definitions. It can be enabled to skip the revision letters I (as in India) and O (as in Oscar) so that they are not mistaken for 1 (one) and 0 (zero) respectively.
- The revision number of a master document is now always updated from a project copy regardless of whether the BlueCielo Meridian Advanced Project Workflow Module is enabled and regardless of any other settings.
- A new application link setting **CheckBlankPropertiesAssigned** has been added to control the synchronization of empty properties. This setting overrides the client registry values of the same name and controls the behavior for all application links.

For more information about these improvements, see the *BlueCielo Meridian Enterprise Configuration Guide* or ask your BlueCielo Meridian consultant.

For even further alignment with your business needs, BlueCielo Meridian can be customized using VBScript. In the 2014 release we have added some new VBScript properties which are listed in the Release Notes and for which we refer to the *BlueCielo Meridian Enterprise VBScript API Reference Guide* or the *BlueCielo Meridian Enterprise .NET API Reference Guide*. You can also ask your authorized BlueCielo Meridian consultant about the possibilities when preparing to update your environment to Meridian 2014.

## 2.6 Single Setup for BlueCielo Meridian 2014 and Modules

Top optimize the efficiency of a global roll-out of Meridian 2014, we have enhanced our installation package by creating a single setup program for both Meridian and its modules, including BlueCielo Meridian Explorer and the BlueCielo Publisher. The setup program can be run on separate application servers to install different components:

- BlueCielo Meridian Enterprise 2014
  - Server setup (64 bit) for Hypertrieve, SQL Server and Oracle
  - Client setup, with multiple deployment options:
    - With or without CAD application integration
    - 2D or 3D viewer setup
    - Windows (32 bit or 64 bit) and Web Access deployment
- BlueCielo Meridian - Asset Management Module 2014
- BlueCielo Meridian - Advanced Project Workflow Module 2014
- BlueCielo Meridian - FDA Module 2014
- BlueCielo Meridian - Shared Workspace Server module 2014
- BlueCielo Meridian - Email Manager module 2014
- BlueCielo Meridian - Explorer module 2014
- BlueCielo Publisher 2014

Use of any of the above products depends on availability of the applicable licenses.

The BlueCielo Meridian Enterprise setup program now creates dedicated Internet Information Services application pools for the products that it installs: **BCMeridian** (Web Access), **BCWebService** (AutoVue Client/Server), **BCExtensibility** (audit log viewer and Meridian Web Client asset management), **BCEnterprise** (Meridian Enterprise Server).



The application pools are automatically assigned to the applications during installation with a specified user account.

Besides the single setup, the Meridian 2014 release also extends the capabilities of the Meridian Enterprise Server, which was first introduced in the 2013 release. The Meridian Enterprise Server 2014 allows central User Management across both the Meridian Explorer repositories and the Meridian vaults. Details about user management can be found in the *BlueCielo Meridian Enterprise Server Administrator Guide*.

## 2.7 Documentation updates

All documents are provided in English. Most guides are provided in both Adobe PDF and Microsoft HTML Help (.chm) formats. The Adobe PDF versions are provided in both A4 and LETTER sheet sizes for optimal printing and include indexes. The Microsoft HTML Help versions are context-sensitive when F1 is pressed within the client applications. Guides for browser-based products are also provided as web help (.html) sites that can be deployed within the firewall, complete with navigation and full-text search. BlueCielo-hosted, context-sensitive web help versions of all BlueCielo technical documentation is expected to be available in the near future. All documents have been updated in this release. Additional documentation is available for each BlueCieloMeridian module.

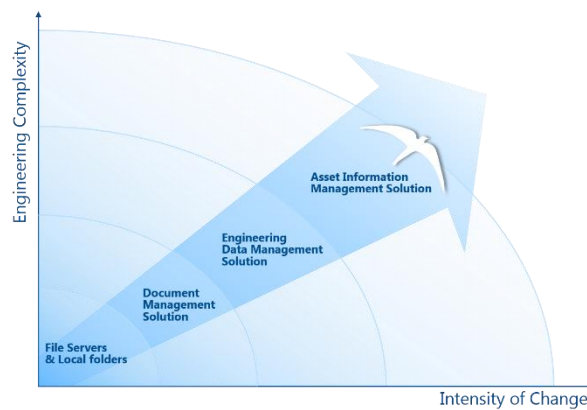
The following technical documentation, updated with the new features and bug fixes, is available for this Meridian Enterprise release:

- *BlueCielo Meridian Enterprise 2014 – What's New* (this document)
- *BlueCielo Meridian Enterprise 2014 Administrator's Guide*
  - A new appendix has been added that lists the warning and error IDs that can appear in the Windows event log.
- *BlueCielo Meridian Enterprise 2014 Configuration Guide*
- *BlueCielo Meridian Enterprise 2014 User's Guide*
- *BlueCielo Meridian Enterprise 2014 Developer's Guide*
- *BlueCielo Meridian Enterprise 2014 VBScript Reference Guide*
- *BlueCielo Meridian Connection API 2014 Reference Guide*
- *BlueCielo Meridian Enterprise 2014 Release Notes*
- *BlueCielo Meridian Enterprise 2013 Supported Software*
- *BlueCielo Meridian Enterprise 2014 .NET API Reference Guide*
- *BlueCielo Meridian Enterprise 2014 System Requirements*

### 3 BLUECIELO MERIDIAN 2014 - MODULES

BlueCielo Meridian Enterprise is a versatile solution with a broad range of features that allows companies in multiple industries to optimize their business processes related to the creation, collaboration and distribution of engineering data. Due to its great flexibility in configuration to specific user requirements, BlueCielo Meridian Enterprise can be used as a simple document management system or enhanced to an Engineering Content Management (EngCM) solution. As an EngCM solution, BlueCielo Meridian supports multiple processes ranging from master data management and extensive project control to collaboration with external contractors and suppliers. It can also be used for managing asset-related technical documentation through the addition of specialized modules, which further extend the solution into a full Asset Information Management solution for Owner/Operators.

Within large organizations, we see that some sites still work with paper archives while other sites are already interested in a full Asset Information Management Solution. The BlueCielo Meridian Enterprise Solution is highly adaptive and can be implemented to facilitate these various levels of maturity. These levels are reflected in this picture, where:



- “Engineering Complexity” refers to the amount of highly engineered assets (one hundred thousand plus assets), how rigorous the design process is, the product produced and the quantity of safety or regulatory requirements.
- “Intensity of Change” refers to the degree of change needed, whether the change is needed for innovation, technology, regulatory compliance, or for maintenance and control. For example, small plant modifications that are concurrently executed within medium size optimization projects that are phases within large capital projects, for which all the same documentation could be impacted.
- And the Z-axis, up and to the right, is where our customers live, with their combination of multiple concurrent small to large and complex engineering projects. Owner/Operators choose to work with our Asset Information Management solution in order to access the latest features in the core product combined with additional functionalities from modules like Advanced Project Workflow Module and the Asset Management Module.

In this chapter, we will give a brief introduction to the various modules, followed by a description of the new possibilities in the 2014 release. The purpose of this overview is to allow you to build a solution that fits your organizational needs and that meets new levels of operational excellence.

### 3.1 Advanced Project Workflow Module

Modifications to engineering content are typically done through modification projects. BlueCielo Meridian can be configured to allow quick changes for small plant modifications, but more extensive changes are done through Meridian projects. The BlueCielo Meridian Advanced Project Workflow Module enables the management of complex projects and fully supports the management of change processes by Owner/Operators who are faced with compliance with ever tighter regulations.

In BlueCielo Meridian 2014, we have added further configuration options to improve control over modification projects:

- A new command **Show master and project copies** has been added that delivers a complete overview of the related copies of the selected document.
- When making a project copy, the folder hierarchy is now shown in the **Select Project** dialog box, allowing quicker assignment of the document to the appropriate folder in the project.
- The module has a new option called **Show system properties** that can be enabled when configuring property assignments for workflow states, transitions, and interlocks.

Ask your authorized BlueCielo Meridian consultant for more details about these new possibilities when preparing to update your environment to Meridian 2014.

### 3.2 Asset Management Module

The Asset Management Module enables BlueCielo Meridian users to expand their Engineering Content Management solution into a full Asset Information Management (AIM) system. Within the AIM solution, based on the unique identification number of revenue-generating assets (tag numbers) and functional locations, all related documents are immediately made available to the users. Tag-document relationships allow users to find the documents either in the stand-alone BlueCielo Meridian Explorer Client or through integration with maintenance management systems such as Maximo, Ultimo, Datastream, SAP EAM (aka PM) or facility management systems like Famis, Archibus or others.

BlueCielo Meridian, when used alone, supports AutoCAD P&ID basic functionality. When used with the Asset Management Module, the AutoCAD P&ID link is further extended in functionality (see also the What's New white paper for the Meridian 2013 release).

In short, the enhanced AutoCAD P&ID link allows you to:

- Synchronize drawing tags to and from asset objects in the vault
- Synchronize (local or shared) workspace folder structures from the vault
- Show the **Tags** dialog box in AutoCAD P&ID for easy tag status review.

In the 2014 release, searching for assets (tag numbers) with the AutoCAD P&ID link has been made more user friendly. The asterisk character can be used as a wildcard character for searching for asset names in the AutoCAD P&ID link configuration. The Tag Synchronizer tool in the module setup has also been included in the 2014 release. This tool allows synchronization of assets within the maintenance management system to the BlueCielo Meridian vault.

### 3.3 Email Manager Module

BlueCielo Meridian Email Manager provides automated importing of emails to a vault via configurable rule sets. Email messages and their attachments can be automatically categorized and stored in the BlueCielo Meridian vault. The Email Manager is compatible with all email servers that support the common IMAP protocol, for example, Microsoft Exchange and IBM Lotus Notes. The 2014 release does not include any enhancements for this module.

### 3.4 Explorer Module

The BlueCielo Meridian Explorer allows large viewer communities to access released engineering and asset data from the BlueCielo Meridian vault in the modern web interface of the BlueCielo Meridian Read-Only Explorer Client. The client provides an extensive set of search and navigation features that can be configured to meet the requirements of specific user groups. The data in the Explorer repository, known as the Meridian Enterprise Data Library, also allows the use of common reporting tools like Microsoft Reporting Services and Crystal Reports since it is stored in standard SQL Server or Oracle databases.



The data made available to the users can be controlled through configuration of the Meridian Explorer server, which also allows the consolidation of data from multiple Meridian vaults into one enterprise repository. Data can also be synchronized to multiple remote Explorer repositories to provide an improved user experience with local data centers.



Asset information like tags, functional locations, and equipment linked to engineering content can be included to provide an asset-centric view on the engineering content, both during the construction phase as well as during operations and maintenance. This requires extension of the BlueCielo Meridian environment with the Asset Management Module. With an asset-centric BlueCielo Meridian Explorer repository, integration is possible with maintenance and facility management systems like IBM Maximo, SAP PM, INFOR (Datastream), FAMIS, and many others.

The addition of the Meridian Asset Management Module allows users to create comments (redlines and remarks) for documents. In the 2014 release, we have extended that to include assets. Comment-threads, also called discussions, have also been included in the 2014 release, allowing users to start a discussion and include other documents for referral as well as upload photos to explain situations to colleagues. Discussion can be stored and tracked in the audit log and shared with BlueCielo Meridian users. Comment-threads require a BlueCielo Meridian Enterprise Server 2014 license.

**COMMENTS**

Valve is closed.  
 Need new work-order to do repairs

SUBMIT
CANCEL
ATTACH

**edwin**  
 About 11 minutes ago  
 Revision: 1

✎ ✓ ✗

Please take a picture of the pump

**fred**  
 About 2 minutes ago  
 Revision: 1

✎ ✓ ✗

See photo of pump 7200-P-0101



PHOTO2.JPG

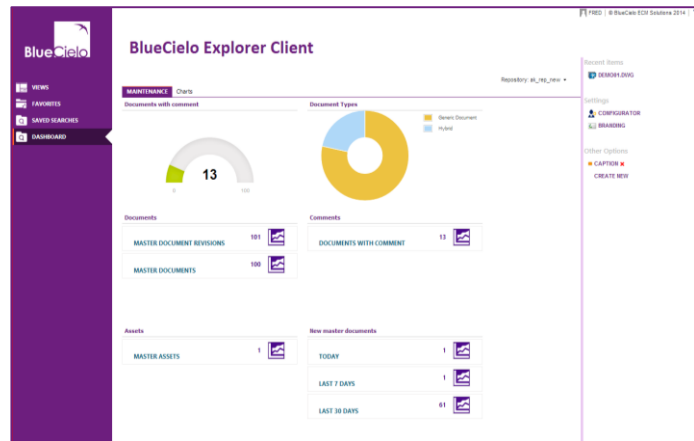
**edwin**  
 Less than a minute ago  
 Revision: 1

✎ ✓ ✗

For this pump close valve 7200HV161

CLOSE
✕

In the BlueCielo Meridian Explorer client we have introduced a default dashboard that shows data from the Explorer repository. For extensive reporting and dashboards, 3<sup>rd</sup> party reporting tools such as MS Reporting Services or Crystal Reports can be used. The default dashboard can be replaced with the dashboard of a 3<sup>rd</sup> party application.



The Meridian Explorer 2014 release offers the following additional enhancements:

- Previously only personal collections could be created for use within Explorer Touch (the iPad version of the Meridian Explorer client). In the 2014 release, collections can now also be made for other users, for example by a maintenance job planner, and stored as a shared collection for use by maintenance engineers going into the field to do the job.
- Specific actions of users working with the Meridian Explorer client are logged in the Audit trail. This allows BlueCielo Meridian users to see the actions of the Meridian Explorer users (including the extended comments functionality as mentioned above), thereby extending the full proof of control for regulatory compliance.
- Search results can be exported to an Excel worksheet containing the document URL.
- User-specific preferences are stored, including the preferred PDF viewer.
- The Meridian Explorer repository configuration – including the security settings – can be exported and imported.

### 3.5 FDA Module

The BlueCielo Meridian FDA Module adds configurable FDA 21 CFR Part 11 technical controls to the already powerful technical document management of BlueCielo Meridian. To manage GMP-controlled engineering documents, the module provides:

- Enhanced authenticated access control
- Event audit trail and reporting
- Electronic signature support for document & project workflows
- Electronic signatures manifested on Adobe PDF document renditions
- Document workflow status email notification and subscription
- Rendition watermarking

In the 2014 release, we have extended the electronic signature feature to prompt for a reason for approving documents within the workflow. A disclaimer message may also be shown, for example, to require the user to review the document before approval.

The screenshot shows a configuration dialog box titled "Use electronic signatures on workflow transitions". It contains several options and fields:

- Use electronic signatures on workflow transitions
- Show reason page
- Get reason from:
  - This lookup list: [Reasons] [New...]
  - This expression: [ ]
- Disclaimer:  
By signing this page, you agree that you have reviewed the associated document fo
- Remember user name for batches of electronic signatures

### 3.6 Global Collaboration Framework Module

The BlueCielo Meridian Global Collaboration Framework (GCF) allows geographically-separated engineering teams to set up a seamless exchange of content and global workflows to enable global engineering processes while at the same time retaining their own local area network environments and processes in BlueCielo Meridian. The latest version of the Meridian GCF module is 2012 SP3. To improve deployment of the GCF module, the GCF-related client components can now be deployed with Meridian 2014 from the setup program.

### 3.7 BlueCielo Publisher

The BlueCielo Publisher module offers the capability to render documents from various source content management systems and publish them into the same or another destination system. In the destination system, metadata can be published along with the optionally rendered file. If the properties in the destination system have different names, the properties can be mapped to the property names of the source system.

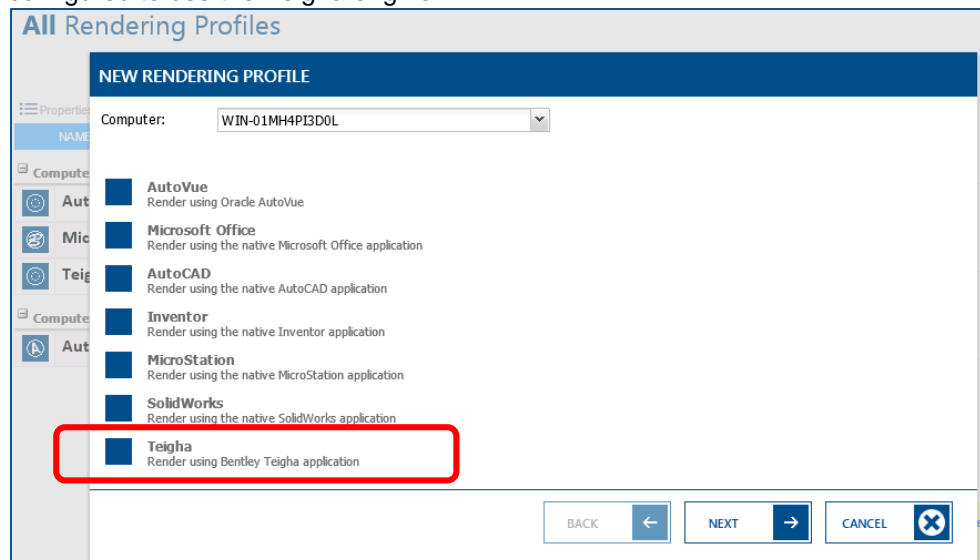
In the BlueCielo Publisher 2014 release, the following enhancements have been made:

- **Native AutoCAD 2015 rendering module**

The BlueCielo Publisher can render documents using the native application. In the 2014 release, AutoCAD 2015 is supported by the Publisher rendering engine for native applications.

- **New MicroStation rendering module based on Teigha libraries**

In the 2014 release, we introduced a new rendering engine for MicroStation based on the Teigha libraries from the Open Design Alliance. Rendering using native MicroStation is no longer permitted according to the MicroStation license agreement. This means that future versions (starting with 2014 SP1) will not ship with the native rendering engine for MicroStation and new rendering jobs must be configured to use the Teigha engine.





### ■ Email notification

There are two new options, **Notify submitter when publishing a document has succeeded** and **Notify submitter when publishing a document has failed**. The messages for failed publishing jobs now contain details about each item in the job.

### ■ Publisher for File System

MS Excel no longer needs to be installed on the server to configure a publishing job with an Excel spreadsheet as the metadata source.

### ■ MS SharePoint 2013 support

The SharePoint system link now supports both MS SharePoint 2010 and MS SharePoint 2013.

### ■ Warning message

A confirmation dialog box is now shown when you are about to delete a rendering profile that is used by a publishing job or a publishing job that has pending documents.

### ■ Easier cluster support

The name of a cluster node may now be specified during publishing job creation.

### ■ Batch support for publishing jobs

A new option **Batch size** has been added to publishing jobs. It specifies the maximum number of documents to publish per run of the job. When a publishing job includes more documents than the batch size, the current job run will be truncated to one batch of this size and the remaining documents will be published in separate batches by each scheduled run of the job until the entire job is completed.

The screenshot shows the 'Options [M] to [M]' configuration page in the BlueCielo Meridian Administration Console. The page is divided into several sections:

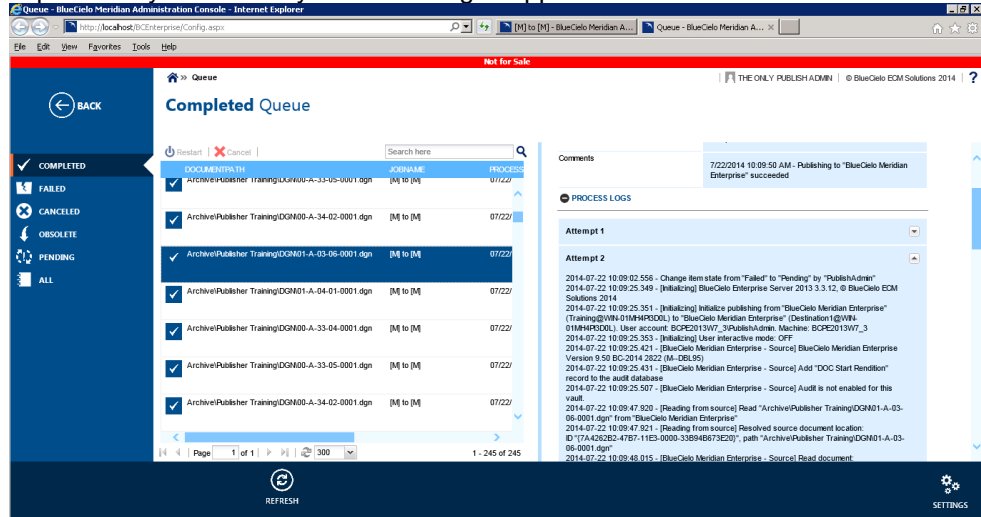
- GENERAL:**
  - Timeout:** 60 (The amount of time the system will wait for a specific publishing or rendering task to complete.)
  - Number of retries if publishing fails:** 0
  - Batch size:** 0 (The maximum number of documents that are published in a batch (if unlimited).)
  - Publish new documents immediately:**  Run job immediately when a new document has been registered.
  - Publish restarted documents immediately:**  Run job immediately when a registered document has been restarted.
  - Enable Meridian script events:**  Publisher will invoke Meridian script events in the source and destination vaults (if applicable).
- DESTINATION FILE NAME:**
  - Use property value from source document:** Not selected (Source file name will be used). Options: SELECT, CLEAR.

At the bottom of the page, there are two buttons: **SAVE** and **UNDO**.



### Queue grouped by job attempt

If multiple attempts were made to publish a document, the data that is shown for the publishing job in the **PROCESS LOGS** list is now grouped by each attempt. The data for each attempt is collapsible and expandable and the last attempt is expanded by default. Any error messages appear in red text.



### File extension missing

New rendering options have been added to publishing jobs that allow a pre-existing Adobe PDF rendition template file to be published for documents with specified file extensions or that have no file extension.

## 4 NEW MODULE - BLUECIELO MERIDIAN PROJECT PORTAL

BlueCielo Meridian Project Portal is the only MS SharePoint-based portal that offers full collaboration with the entire supplier network without giving direct access to the internal master data, project-related documentation, and workflows. This guarantees data consistency and compliance while minimizing costs related to the handover of critical engineering content.

The MS SharePoint-based BlueCielo Meridian Project Portal fully integrates external resources in the project and document workflows relating to change projects or new plant construction projects. Within the MS SharePoint environment, Document Controllers manage document exchange with external companies who need access to the distributed transmittal packages. After acknowledgement of the



transmittal, the external companies can participate in the project, while the Meridian Project Portal controls data consistency and completeness for the Document Controller upon submission of the delivered work.

### Key Capabilities

- Project setup based on templates
- Full document and distribution control
- Use of supplier master document lists
- Work packages and document package delivery
- Transmittal management and acknowledgement
- Document delivery status follow-up
- Data consistency and completeness control
- Master data management and handover

The BlueCielo Meridian Project Portal requires MS SharePoint 2013 (MS SharePoint 2010 is possible but 2013 is preferred) and a Meridian Enterprise Server License. See also the next chapter about licensing.

## 5 BLUECIELO MERIDIAN 2014 - NEW LICENSES

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With every major release, we update our license offerings for the latest releases of our software and any new modules. The license code for Meridian 2014 ends with 95 (like M—PURALP001-95, the Meridian 2013 license codes ended with 94). This is relevant with respect to the required authorization keys. When implementing Meridian 2014, the new license keys must be installed in the BlueCielo license server and the matching authorization keys entered in the license server. The new license keys are backwards compatible, which means that with the new authorization codes, earlier releases of Meridian (2013, 2012, 2011 and 2010) will also work. License codes will be provided after a software maintenance contract is activated.

Along with the release of BlueCielo Meridian Enterprise 2014, we have made some changes to our licenses and included some new licenses on the pricelist:

- BC [M] Explorer Client License  
This license allows use of the mobile device-optimized client website. Effectively, the user is allowed to use both the full Meridian Explorer client in a PC web browser as well as the iPad-compatible version. In the latter case, the license becomes a named user license.
- BC [M] Explorer Mobile - Named End User License  
This license can be used by users who are granted access to the Meridian Explorer repository via the iPad website only.
- BC [M] Project Portal (For MS SharePoint, on-site deployment)  
This module requires a server license and separate, named user licenses. The server license includes 20 named end user licenses. If more users need access, single named user licenses can be purchased separately. For the integrated use of the Meridian Project Portal with a Meridian environment, the BC [M] Enterprise Server License is required
- BC [M] Enterprise Server License  
This license allows connection between a Meridian environment and the MS SharePoint server farm where the Meridian Project Portal is installed. The Meridian Enterprise Server License also includes:
  - Meridian Explorer Server license
  - BlueCielo Publisher license for Meridian
  - Discussion functionality for BC Meridian Explorer
- BC [M] Shared Workspace Server License  
This server license is required per Meridian application server and allows mapping of CAD application-specific network folders to BlueCielo Meridian vault folders.

For more details about the licenses and use of their capabilities within your organization, please contact your BlueCielo Meridian representative.



## BLUECIELO ECM SOLUTIONS

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Owner/Operators act in a dynamic and globalizing market in pursuit of the highest possible profitability. Both internal and external factors change the circumstances constantly, requiring plant managers to take appropriate action. The convergence of these market dynamics makes it hard for organizations to maintain crucial asset information as-built to reach the highest possible profitability.

BlueCielo provides the leading software solution to discover, monitor and protect asset information throughout the asset lifecycle. Our solutions provide a single point of truth for asset-related data to ensure that accurate, up-to-date information is always easily accessible. BlueCielo's solutions reduce costs, improve efficiency and increase data quality, enabling our customers to maximize profitability and demonstrate regulatory compliance by measurably reducing risk.

BlueCielo is an independent global organization which has built the largest share of successful customer deployments worldwide over the past 30 years. Our Professional Services team has unparalleled expertise within the field of Asset Information Management and our solutions contribute daily to the revenue of the largest global enterprises.

The company is headquartered in The Netherlands and has offices across the United States, Brazil and Europe, as well as an international network of partners that ensures local service and support for our software solution BlueCielo Meridian Enterprise. BlueCielo is an official partner of Autodesk, IBM, Microsoft, SolidWorks and Oracle.

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