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1 Introduction

BC Teamwork 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 of engineering data. With BlueCielo Teamwork, organizations can ensure that the latest revisions of the right documents are available to the right people. Fully CAD platform-independent, BlueCielo Teamwork provides flexible revision management, workflow support for projects and single documents, and a safe, secure environment for documents using a vault concept.

The BlueCielo Teamwork 2012 release comes with several major functional enhancements and a plethora of updates and improvements. New and enhanced functionality is described in this document for the BlueCielo Teamwork product.

2 BlueCielo Teamwork 2012

BlueCielo Teamwork 2012 comes with several major new features, various look-and-feel improvements, and a variety of smaller improvements with respect to usability, application integration, viewing, search, configurability, and technology. The main enhancements in BC Teamwork 2012 (abbreviated to BC Teamwork 2012) 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 Viewing

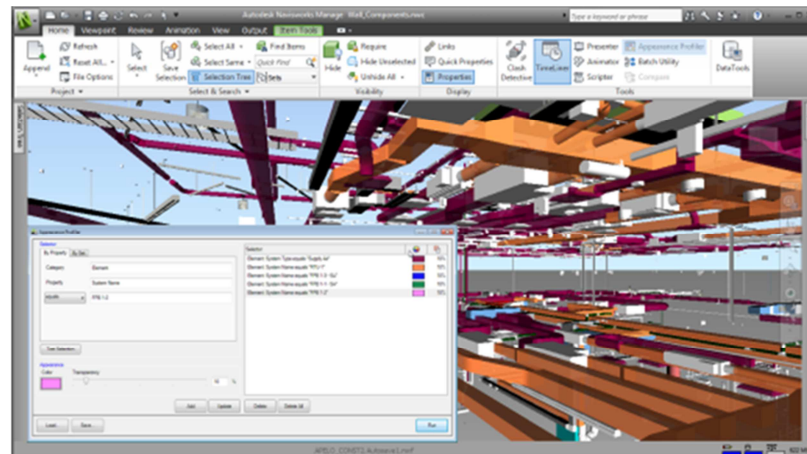
2.1.1 AutoVue 2D Professional 20.1.1

AutoVue version 20.1.1 is included with this release of Teamwork. Among others, new formats supported are:

- AutoCAD 2011, 2012
- AutoCAD Mechanical 2011, 2012
- Inventor 2011, 2012
- SolidWorks 2011

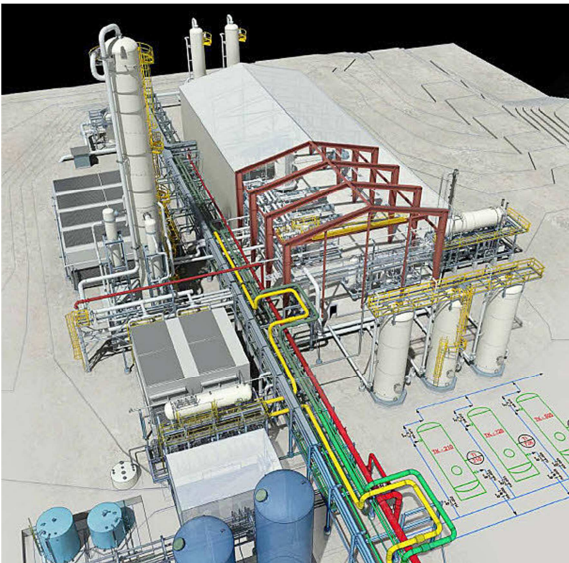
2.1.2 Navisworks Freedom 2011 support

The Navisworks Freedom viewer is now supported by the BlueCielo viewer and can be configured as the default viewer for Navisworks files.

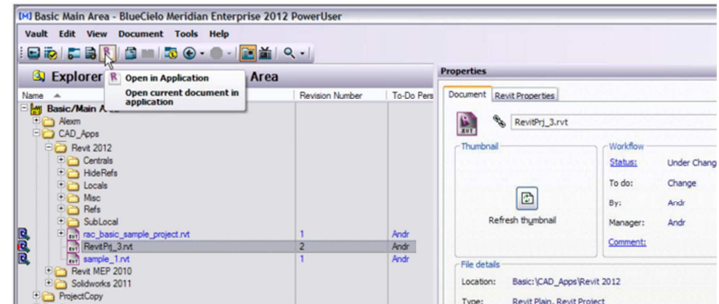


2.2 Autodesk Revit

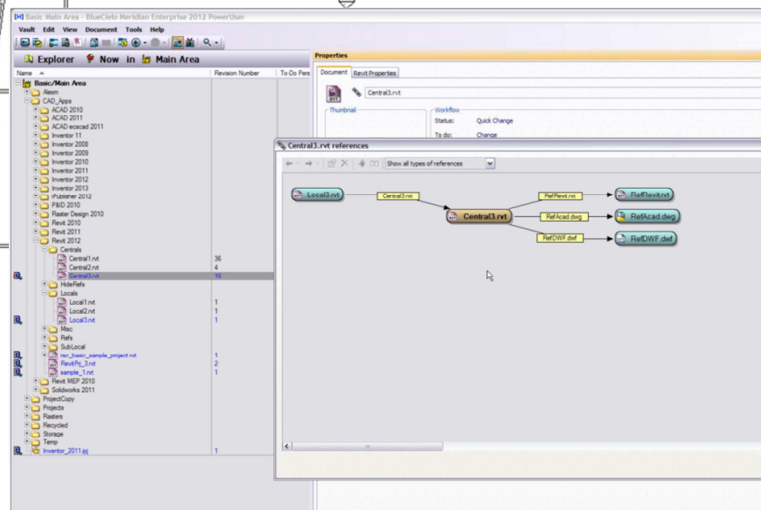
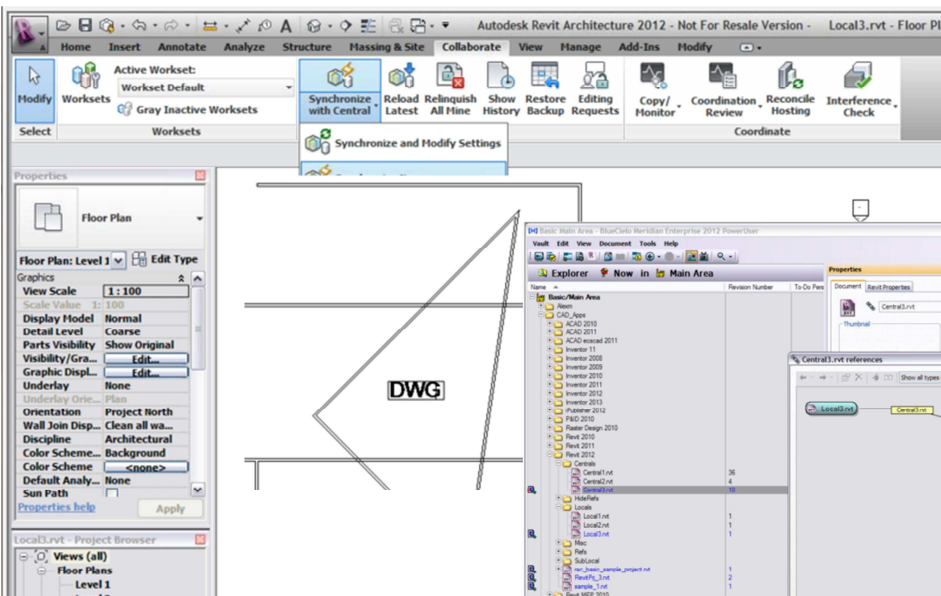
BC Teamwork 2012 extends support for managing Revit models in a Teamwork vault.



File management for Revit models has been improved. In Teamwork 2012, synchronization between Revit models can be managed within the vault and integrated with workflow and version management. The history data generated by Revit can now be managed in the Teamwork local workspace (LWS) to avoid unnecessary overhead in the vault. Teamwork 2012 can be configured to manage retention of Revit history data in conjunction with workflow in the vault.



This release also adds **management of Revit model hierarchies**. When work in a large project is distributed over a hierarchy of Revit models (e.g. per project team, within each team per discipline, and then a model for each engineer), Teamwork can track which Revit worksets are being worked on in the individual models, and manage the synchronization of updates through the model hierarchy. This enables efficient division of labor while maintaining overview and control of the entire project.

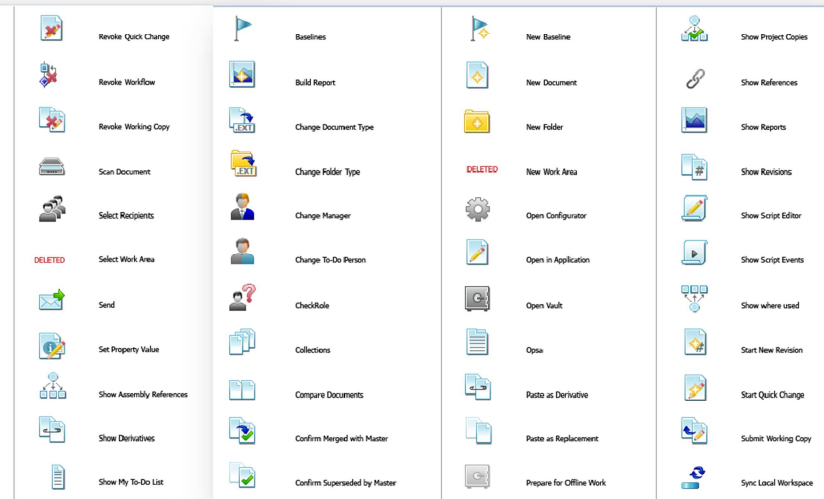
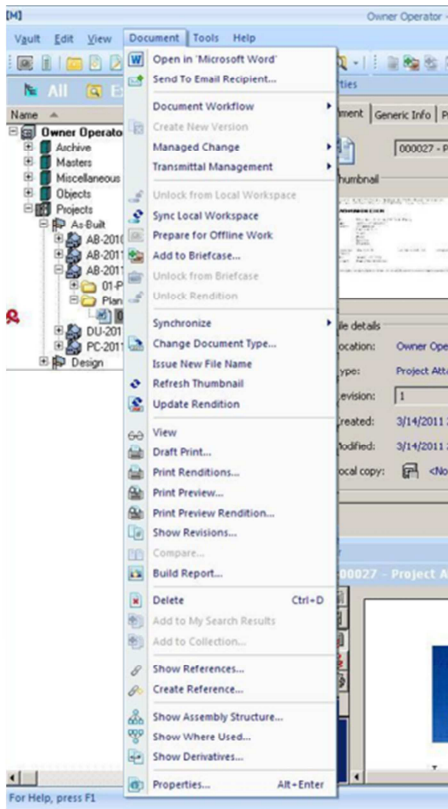


Finally, Teamwork 2012 adds the **management of references** created in the Revit model (with the exception of references to point clouds). This brings the advantages of BC **[M]** reference management to Revit models and avoids losing track of data and relations that are essential for the integrity of the model.

2.3 Usability

2.3.1 New icons

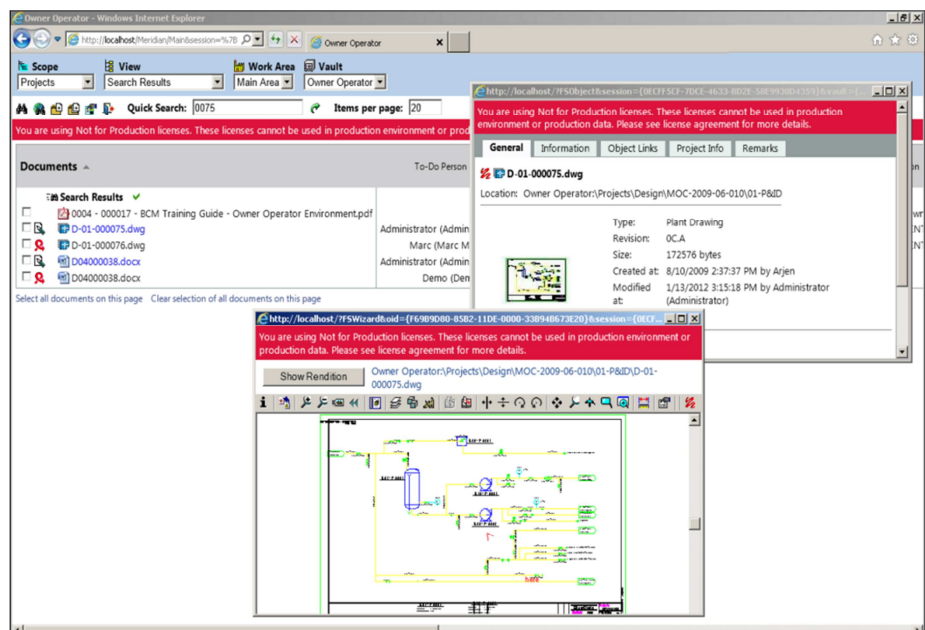
A more contemporary set of icons has been created for the PowerUser, Office Client, and Web Access. All icons have been redesigned for consistency, clarity, and intuitiveness.



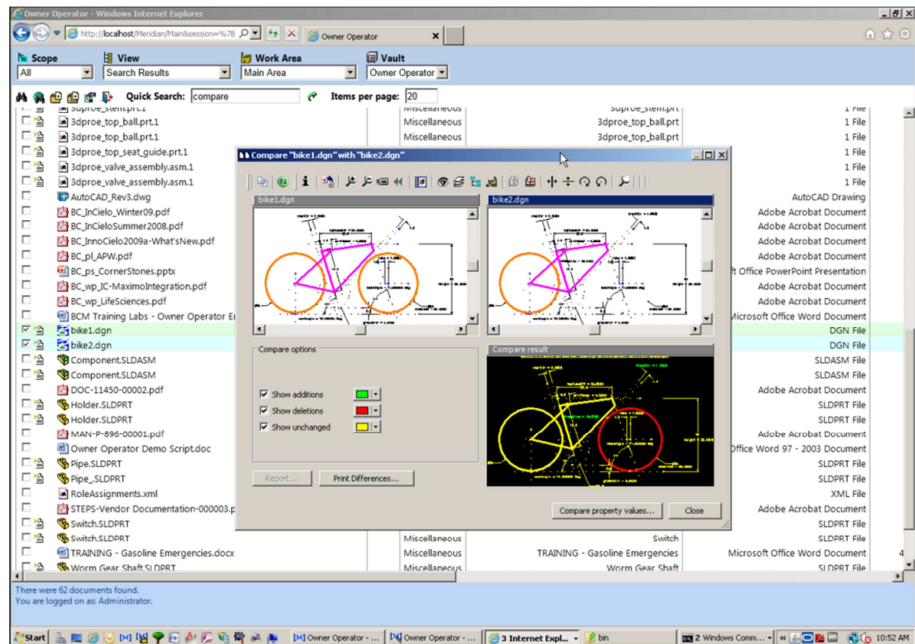
2.3.2 Web client enhancements

Various usability enhancements have been made to the BC TeamWork and Web Client:

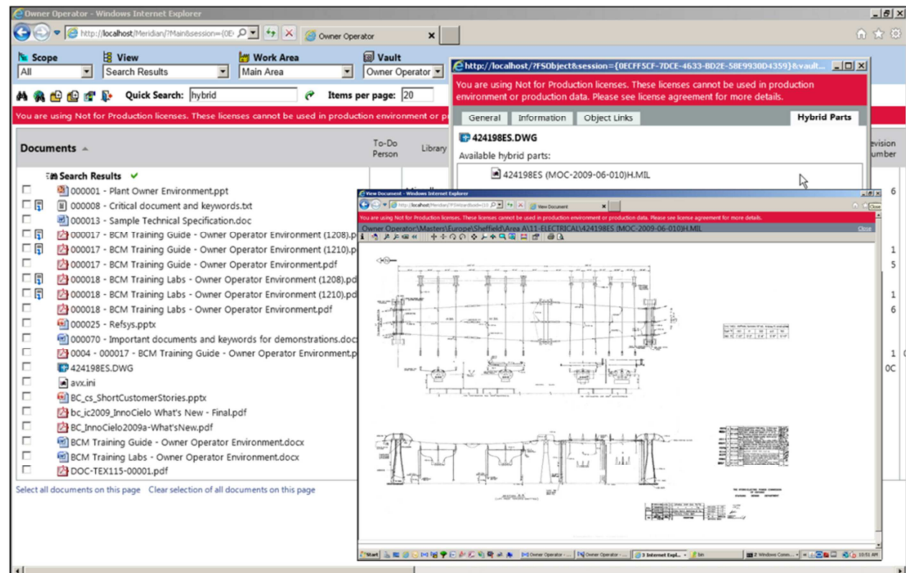
- The look-and-feel of the web client has been optimized to look and function more like the BC TeamWork. One of the most important changes in that respect is the introduction of floating windows for properties and the viewer.



- The Compare dialog available in the BC TeamWork has been made available in the web client. It provides a visual comparison in the viewer of two documents or two revisions of a document. It also provides a dialog to compare the documents' properties.



- A default scope can be set when publishing a vault. Web Access users are not aware that they are actually seeing a subset of the vault's contents and capabilities.
- Internet Explorer version 9 is now also supported while IE versions older than release 6 are out of support.
- Hybrid Support is added



2.3.3 Data Import Tool

The Data Import Tool has been enhanced with the following features:

- All imported documents can be assigned a specified document type.
- Specifying values for properties that are linked to lookup lists is made easier by the display of the existing lookup list values.
- Folders created during import now raise the BeforeNewFolder and AfterNewFolder events
- It is possible to skip documents that have already been imported during a previous execution of the document import tool
- The document import tool does no longer import documents that are out of the current scope.

The screenshot shows a dialog box for the Data Import Tool with the following sections:

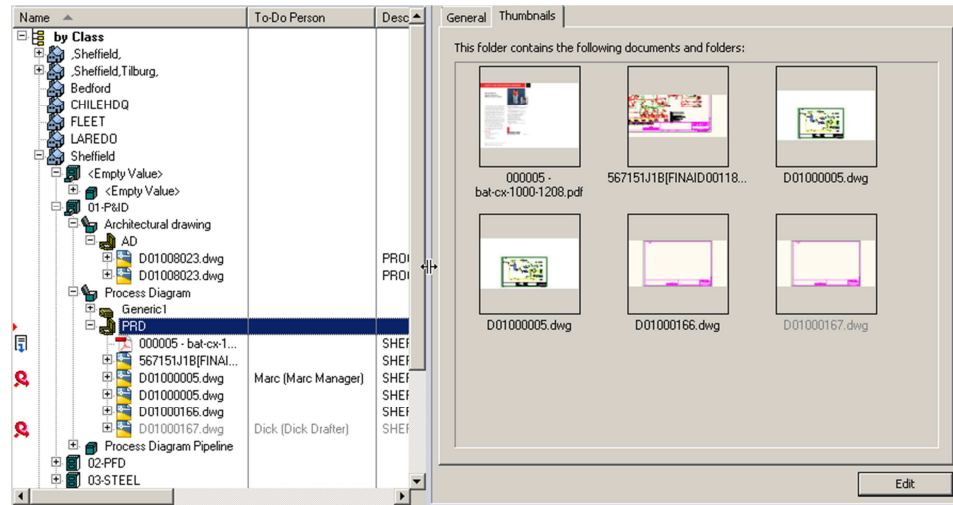
- Destination folder:** Select a destination folder to import documents into: [\]
- Missing Files:** Create an Empty Document if file to import doesn't exist
- Hybrid mapping:** Import hybrid components as parts of the hybrid document type
Database field that identifies parts of a hybrid document (should contain the same value for all parts): []
- Title block fields:** During import of the database, the Document Import Tool can attempt to read data from a title block in the AutoCAD drawings. If enabled, this will overwrite the data from the database fields. Import title block data
- X-Ref table:** After import of the database, the Document Import Tool can attempt to resolve any X-Refs stored in drawings. Resolve references
- Document type field:** From database field [] Fixed type for all documents []
- Rendition path field:** Add the rendition file to the document
Database field that contains path to the rendition file: []

2.3.4 Last destination folder is remembered

With various commands (e.g. Import Document, Create Project Copy, Copy Document, and Copy with References) a folder selection dialog is shown to the user. All clients now save the last selected folder for each operation and use this as the default for the next operation.

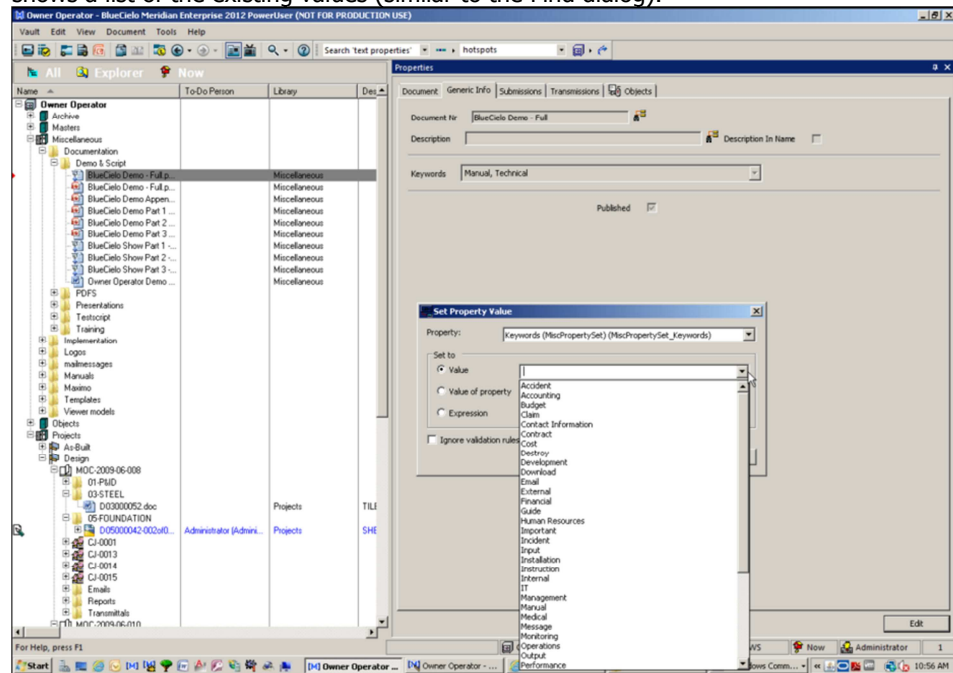
2.3.5 Thumbnails in folders

Thumbnails of documents in a folder are now shown in each navigation view.



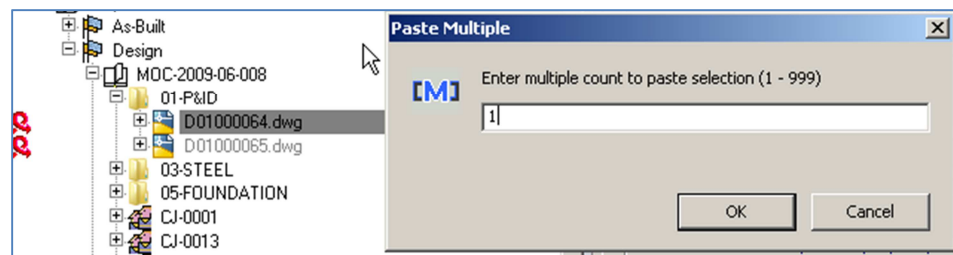
2.3.6 Lookup lists in Set Property Value dialog

For properties that are linked to a lookup list, the Set Property Value command now shows a list of the existing values (similar to the Find dialog).



2.3.7 Replicate documents (Paste Multiple)

A new command Paste Multiple has been added to the Edit menu. It allows the user to make multiple replicas of a document copied from inside or outside of the vault.



2.4 Application integration

2.4.1 Updated CAD support

One of the primary goals of each release is to support the latest versions of popular authoring applications with which BC Teamwork integrates.

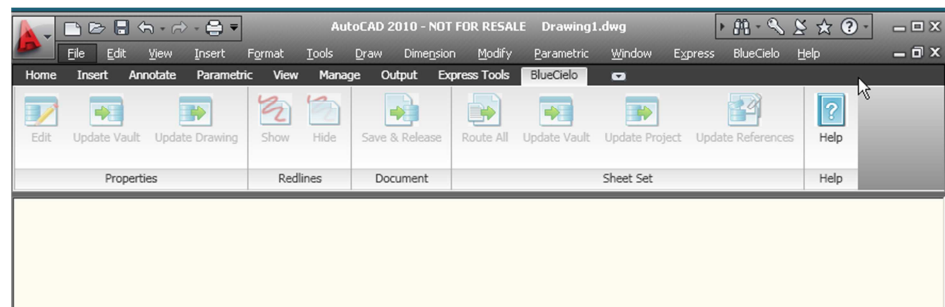
The latest versions of the following CAD applications are supported:

- AutoCAD 2012 family
- Autodesk Revit 2012
- SolidWorks 2011, 2012 (Note: SolidWorks 2012 drawings cannot yet be viewed in the AutoVue viewer)

A complete list of the supported operating systems, authoring applications, email applications, web client applications, database management systems, languages, viewers, and the BC Teamwork versions supported by each version of the BC Teamwork modules are provided in *BlueCielo Teamwork 2012 Supported Applications*.

2.4.2 Ribbons in CAD applications

The AutoCAD, Inventor, MicroStation, and SolidWorks links now provide a BlueCielo ribbon that can be used instead of the classic menu items.



2.4.3 Microsoft Outlook link

The Outlook link allows users to store emails in the BC Teamwork vault. The following enhancements have been implemented:

- It is now possible to minimize the user interactions by configuring the client so that the destination selection dialogs are skipped.
- You can configure the client to save email and attachments as a single file in .msg format.
- If an email has multiple attachments, then properties set for the first attachment can also be applied to the other attachments, avoiding duplicate data entry.
- When an email is dragged from Outlook to the BC TeamWork client, email properties (such as From, To, and Subject) are now automatically synchronized to document properties as determined by email settings (this was already the case except for drag-and-drop).

2.4.4 Lotus Notes link optimizations

The Lotus Notes link now provides the same level of functionality as the Microsoft Outlook link. Besides the added features, the scripting possibilities have also been extended, allowing more flexibility for the import of emails and their attachments.

2.4.5 Savable search column filters

It is now possible to save the search column filter settings in the BC Teamwork Client.



2.5 Configurability

2.5.1 Wizard pages for commands

Custom property pages have been available for documents and folders in prior versions. This release allows them to all be applied to custom commands. This enables easier prompting for property values that are required for the command to process.

2.5.2 Centralized Outlook link settings

The Outlook link settings that were previously configurable by each user have been centralized on the Email Settings page in Teamwork Configurator.

2.5.3 Import of Active Directory groups

The screenshot shows the 'Active Directory User Synchronizer' window. It features several input fields and buttons for configuration. The 'AD server' field is set to '10.0.1.1', 'AD admin' is 'Administrator', and 'Password' is masked with dots. There are dropdown menus for 'AD groups' and 'Meridian groups', with a 'Filter' button next to the 'AD groups' dropdown. Below these are buttons for 'Get Groups', 'Add Mapping', and 'Delete Mapping'. A table titled 'Mapped groups' has two columns: 'Active Directory Group' and 'Meridian Group'. Below the table are radio buttons for 'Synchronize user accounts' with options 'Always' (selected), 'Primary account only', and 'Never'. There are also checkboxes for 'Update properties only if the user is a group member' (checked) and 'Rename duplicate Meridian user accounts' (unchecked). At the bottom are 'Synchronize' and 'Exit' buttons.

A tool is included with Teamwork that enables groups to be copied from the Microsoft Active Directory and imported into the BC Teamwork 2012 user Database. The tool can be configured to map Active Directory properties to the BC Teamwork directory.

2.6 Technology, installation & deployment

BlueCielo strives to continually improve the technological foundation upon which BC Teamwork is built. This release incorporates the improvements described in the following sections.

2.6.1 BlueCielo File System driver (AMFS)

The BlueCielo File System driver (AMFS) will not be updated with new functionality and will be discontinued in a future Teamwork release (as yet undetermined). Customers currently using AMFS are recommended to migrate to local workspace (LWS) or centralized workspace (CWS).

2.6.2 Certified for Windows Server 2008 R2

After its release, BC Teamwork 2011 was certified for Windows Server 2008 R2 by Microsoft. This certification identifies hardware and software solutions that meet Microsoft standards for compatibility and recommended practices with the Windows Server 2008 R2 operating system. Solutions that have earned the certification take advantage of top-performing technologies, such as 64-bit and virtualization.

BC Teamwork 2011 has been tested by a third party test vendor. Microsoft periodically reviews the certified solutions for compliance with these standards.

For more information about this certification, see the [Windows Server catalog web site](#).



2.7 Documentation updates

The following technical documentation is available for this Teamwork release:

- *BlueCielo Teamwork 2012 – What's New* (this document)
- *BlueCielo Teamwork 2012 Administrator's Guide*
- *BlueCielo Teamwork 2012 Configuration Guide*
- *BlueCielo Teamwork 2012 User's Guide*
- **NEW!** *BlueCielo Teamwork 2012 VBScript Reference Guide* (formerly included in the *BlueCielo Teamwork Configuration Guide*)
- *BlueCielo Teamwork 2012 Release Notes*
- *BlueCielo Teamwork 2012 Supported Applications* (now includes the life cycle support policy and status formerly published in *BlueCielo Products Life Cycle Support Policy*)

Documents are available either as Microsoft HTML Help (.CHM) online Help files or as printable Adobe PDF files and most documents are available in both formats. All documents have been updated, revised, and expanded in this release.



3 BlueCielo ECM Solutions

BlueCielo ECM Solutions is a world leader in sophisticated software solutions in Asset Information Management (AIM) and Engineering Content Management (ECM) for owner/operators, and engineering document control for engineering, procurement and construction projects (EPC, AEC).

With over 300,000 satisfied users worldwide, BlueCielo's independent AIM and ECM solutions integrate with virtually all mainstream document management systems, enterprise content management systems and operational business control systems, such as for maintenance, engineering and project management. For more information, please visit www.bluecieloecm.com.

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