



MERIDIAN
ENTERPRISE

BlueCielo Meridian 2016 - What's New



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Introduction

BlueCielo Meridian software connects maintenance and engineering, supports concurrent engineering and improves data handover. Our software enables full design integrity, ensures proof of control, helps globally dispersed project teams to collaborate, unites your organization's expertise, retains knowledge during transition and protect your valuable data in a secure, safe environment.

Growing organizational needs

As market complexity has evolved, so too have the systems that support engineering information management. In order to achieve operational excellence, a company's systems must match their business process needs. BlueCielo Meridian can support current practices and enable future growth, through the product levels offered; Meridian Base, Standard and Plus. In this eBook you will find the new profitability improving features organized by these 3 product levels.



MERIDIAN BASE

Drawing Management at its finest

Create, search, view and maintain CAD files, renditions and references in a single Drawing Management solution that connects departments.



Meridian Base 2016

Meridian Base offers a fully CAD platform independent solution for engineering drawing management. Version control, revision management and document workflows are provided in a safe, secure environment using a vault concept. The software provides role-based secure access through single sign on. Meridian Base is available in multiple languages and offers integration with CAD, Office and email applications.

Targeted products for user groups

Our software includes a set of products to help different groups of users in your company to do their daily work. These products help authors using Meridian Power and consumers using Meridian Explorer to efficiently control and manage engineering drawings and documents within your business processes.

In Meridian 2016 we provide web based usability improvements and new features to further optimize your drawing management related business processes.

Enhanced Power web client

Ribbons

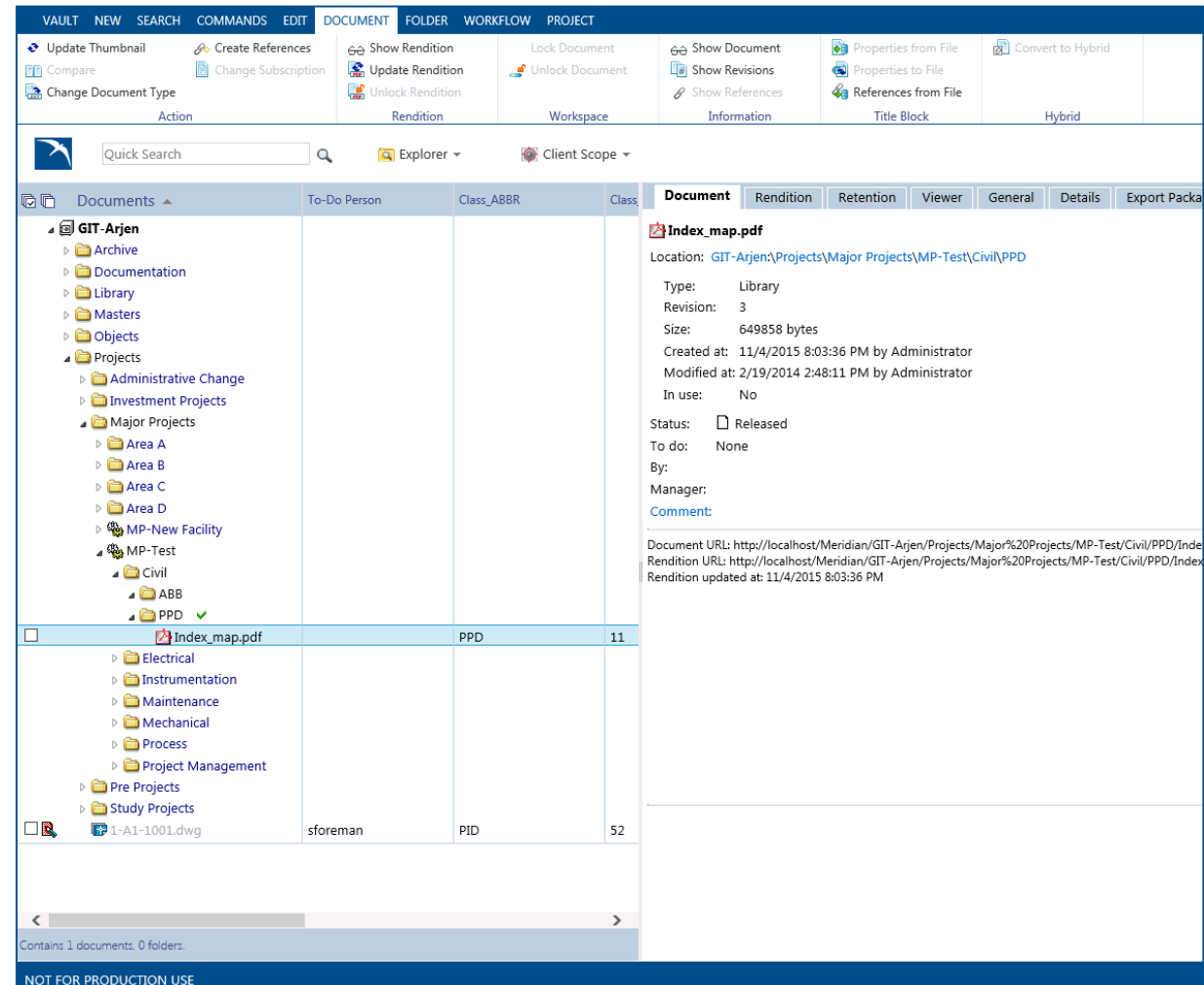
In Meridian 2016 we have continued to improve the usability of the web access client. All functionality is accessible through the newly introduced ribbons. The ribbons can be locked in screen or automatically hidden for more navigation space through the vault contents.

Improved navigation bar

The navigation bar allows to quickly browse through the vault contents. The improved navigation bar shows the documents selected within the entire navigation view folder structure.

Full functionality in web

All major user functionality provided in the Windows Power client is now made available within the web client. Some administrator specific functionalities still require a Windows Power client.



Application Integration



AUTODESK
AUTOCAD



INVENTOR



 Bentley
MicroStation

 SolidWorks

Latest releases supported

Meridian provides integration with many applications. A full overview is provided in the Meridian 2016 Supported Software reference document, which also gives an overview of the supported operating systems and viewers. In Meridian 2016 the latest applications are supported, including:

- AutoCAD 2016 (including Civil 3D, Map 3D, P&ID, and Plant 3D)
- Inventor 2016
- SolidWorks 2016

New iFilter for DGN and DWG

In earlier Meridian releases we used various ways to extract text strings from drawings and make them available for full text indexing. In the 2016 release we introduce a new iFilter for full text indexing of DGN and DWG files.

Rendition support

New render engines

Besides the new configuration functionality for mapping render engines to file formats, we also introduced the following new engines for PDF conversion:

- Revit, RVT file format
- AutoCAD, DWG file format
- Alternative for native AutoCAD render engine
- Micorstation, DGN file format

Raster documents

For Meridian 2016 we have included a new render engine to convert common raster file formats into PDF.

The image shows two overlapping configuration panels. The top panel is titled 'Output Teigha DWG' and contains sections for 'OPTIONS', 'PAGE SETUP', and 'OTHER OPTIONS'. The bottom panel is titled 'General PDFsharp' and contains an 'INPUT EXTENSIONS' table.

Output Teigha DWG

OPTIONS

Use job advanced rendering settings

PAGE SETUP

Paper size: [Dropdown]

Orientation: Portrait Landscape

Color: [Dropdown]

Layouts to export: [Dropdown]

OTHER OPTIONS

Embedded fonts

Type as geometry

Text as geometry

Use simple geometry optimization

Reduce file size (reduce file size)

General PDFsharp

Name	Computer	Input extensions
INPUT EXTENSIONS		
Image Files		
<input checked="" type="checkbox"/>	bmp	Bitmap Image File
<input checked="" type="checkbox"/>	gif	Graphics Interchange Format File
<input checked="" type="checkbox"/>	jpg	Joint Photographic Experts Group File
<input checked="" type="checkbox"/>	jpeg	Joint Photographic Experts Group File
<input checked="" type="checkbox"/>	png	Portable Network Graphics File
<input checked="" type="checkbox"/>	tif	Tagged Image File Format File
<input checked="" type="checkbox"/>	tiff	Tagged Image File Format File
<input checked="" type="checkbox"/>	wmf	Windows Metafile File
<input checked="" type="checkbox"/>	emf	Enhanced Metafile File
<input checked="" type="checkbox"/>	ico	Windows Icon File



MERIDIAN STANDARD

Collaborative Engineering Made Easy

Concurrent engineering for seamless data handovers and easy audits with a single Engineering Information Management solution.



Meridian Standard 2016

Meridian Standard provides powerful and flexible Engineering Information Management for the entire enterprise. In addition to managing engineering drawings and documents, Meridian Standard supports project workflows, collaboration with external contractors and compliance with internal and external regulations. The software can be deployed for multiple locations to ensure optimal user performance and support your organization's future growth.

Collaborative Engineering Made Easy

In addition to the new features listed for Meridian Base, we have further simplified the data exchange for concurrent engineering tasks in the 2016 release of Meridian Standard. The Export packages have been complemented with Import packages. The combination of the two is the basis for integration with our new Meridian360 Portal enabling collaboration in the cloud with contractors and suppliers.

Export Packages

Mass data export

In Meridian 2015 we introduced the Export packages. If granted the rights to do so, users can create export packages. Export packages are collections of documents extended with a destination, an audit trail and revision awareness.

An existing collection can be converted into a package and made accessible to specific users.

An export package can be created in Explorer and made available to non-Meridian users by publishing the package as a ZIP file to a file server, FTP server or HTTP server (website). This requires a "BlueCielo Publisher for File System" license.

For each document the Power (web) user can see in which package the document has been added.

The screenshot shows the Meridian 2015 software interface. The top navigation bar includes a search bar, 'Folders', 'Client Scope', and a user profile 'ArjenB'. The main area is divided into a left pane showing a folder structure under 'GIT-Arjen' and a right pane showing 'Export packages containing this document:'. The right pane contains a table with the following data:

Name	Type	Status	Description	Created	Job	Recipient
2015-ACD documents	Package	Open	Alexm	7/28/2015 1:59:06 PM	Sent to ZIP	Alexm
Ken's Public Collection-Package	Package	Closed	Descritpoin	6/19/2015 7:29:19 PM	Export to Meridian360	aaaa
My package for you	Package	Pending	My folder	5/26/2015 10:59:57 AM	Export to Meridian360	Arjen
test15	Package	Open		12/4/2015 8:06:42 PM		

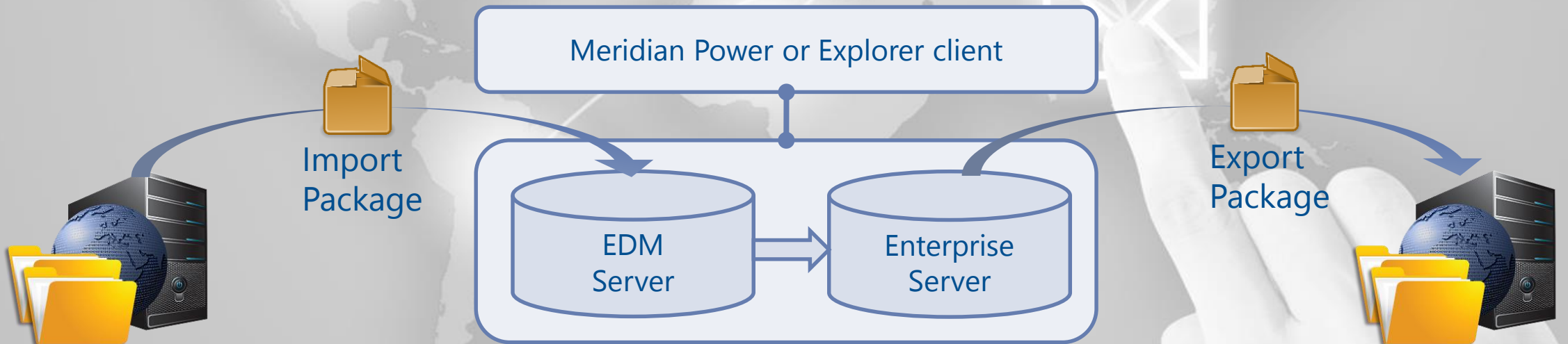
Below the table are links for 'See all packages' and 'New Package'.

Import Packages

Completing the concept

For data exchange with third parties, import of large sets of documents is required. Import packages first enter into the Work in Progress environment by use of Meridian Power (either windows or web version).

At import, data validation rules can be applied for properties, references and completeness. Export packages are created through Meridian Enterprise Server. Import & Export can be done through file transfer (email), FTP, HTTP and our new Meridian360 Portal.



Explorer Mobile

Multiple view support

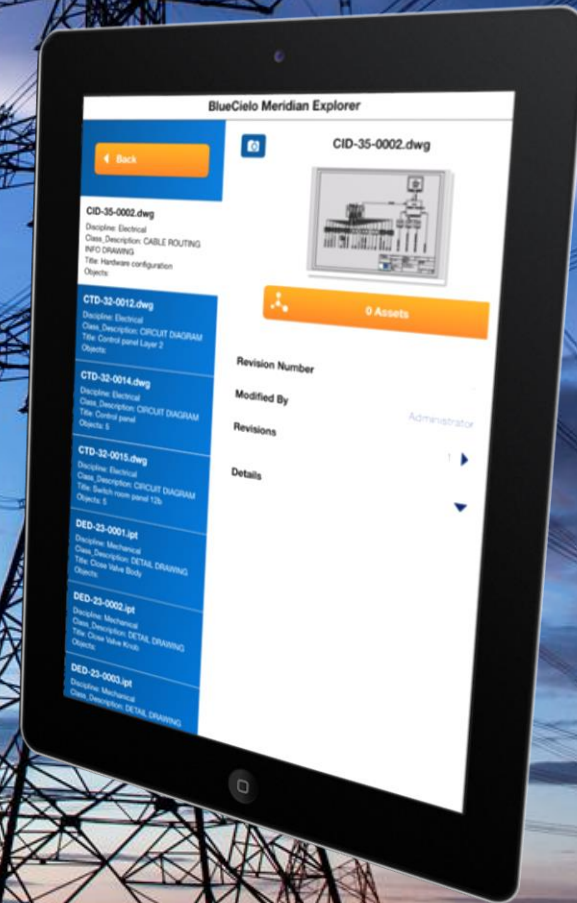
From a list of multiple views, the user can select the preferred view for browsing through the Explorer repository. Multiple views can be assigned to specific user groups, controlling the accessibility of the information.

Improved search

Depending on the configured view, multiple properties can be used for finding the content and in addition, values of lookup lists can be filtered based on wildcard input.

Improved commenting

Commenting was available in previous releases of the Explorer Mobile app. In the 1.1 version we now provide direct access to existing comments and enable users to continue contribution to them.

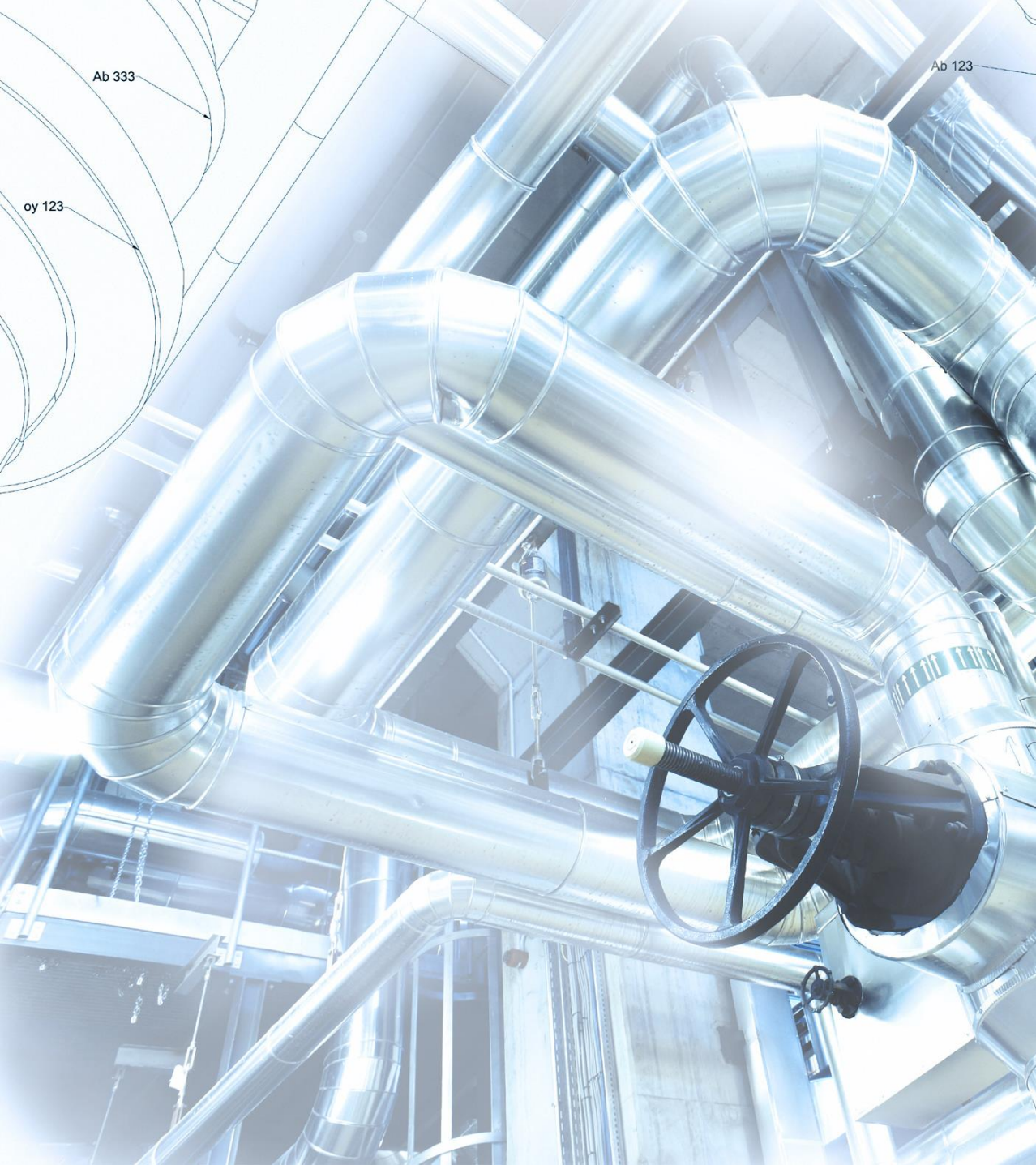




MERIDIAN PLUS

Maintain Asset Data Integrity

Increase your return on assets with a full solution for Asset Lifecycle Information Management in highly regulated environments.



Meridian Plus 2016

Meridian Plus manages your engineering information throughout the entire asset lifecycle. All asset-related data is stored in a single point of truth and from there is made available to the extended enterprise. This allows operations & maintenance to work safely and efficiently, while engineering executes plant modification projects. Collaboration with internal and external stakeholders is managed through the same system, so that engineering processes are harmonized and regulatory compliance is assured.

Maintain Asset Data Integrity

Instead of uploading or linking documents manually against each asset in your EAM solutions, integration with Meridian Plus reduces the effort for managing tag-doc relationships. In this way Operations & Maintenance is always working with up-to-date technical asset information.

In Meridian 2016 we provide a SAP certified integration and further extension of the file formats we provide automatic and manual tag extraction for.

Tag extraction for DGN files

Introduction

Assets, such as pumps, valves, vessels, process lines, etc. are represented on many documents and drawings. To ensure all documents are shown when searching by asset tag number, the tag-doc relation must be established. This is simplified through tag extraction. The document is scanned for all tag numbers and checked against existing tag numbers in the database and if the reference exists.

Tag extraction can be done as a background process, or by the user. The user interface helps to easily manage all tag-doc relations during plant modification projects.

Support for DGN files

For AutoCAD (DWG) we already scanned for tag numbers in the blocks used in the drawing. In Meridian 2016 we include this advanced approach for Microstation DGN files. If tags do not exist in the vault, they can be created.

The screenshot shows a 'Viewer' window displaying a drawing with various equipment tags. A 'Drawing Tags' dialog box is open, showing a table of extracted tags and their status relative to a vault. The table has columns for Object Nr., Type, Status, Inserted, and Linked. The 'Status' column indicates whether a matching object exists in the vault. The 'Linked' column shows if a link has been established. The 'Object' column lists the vault object name if one exists.

Object Nr.	Type	Status	Inserted	Linked	Object
PREF_INS002_PSV-621...	INSTRUM_6211	No matching obje...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PREF_INS002_PSV-622...	INSTRUM_6221	No matching obje...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PREF_INS002_PSV-623...	INSTRUM_6231	No matching obje...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PREF_INS002_PSV-624...	INSTRUM_6241	No matching obje...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PREF_INS002_PSV-630...	INSTRUM_6302	No matching obje...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PRF_Chemical_6201-TI...	INSTRUM_INS0...	No matching obje...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PRF_Chemical_6211-TI...	INSTRUM_INS0...	No matching obje...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PRF_Chemical_6221-TI...	INSTRUM_INS0...	No matching obje...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PRF_Chemical_6231-TI...	INSTRUM_INS0...	No matching obje...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PRF_Chemical_6241-TI...	INSTRUM_INS0...	No matching obje...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
▶ PRF_Chemical_6201-AT...	INSTRUM_INS0...	No matching obje...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Chemical_6302-TV	INSTRUM_INS0...	No matching obje...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Chemical_6242-TW	INSTRUM_INS0...	No matching obje...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	tag (20).object
Chemical_6232-TW	INSTRUM_INS0...	No matching obje...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	tag (21).object
Chemical_6222-TW	INSTRUM_INS0...	No matching obje...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	tag (22).object
Chemical_6212-TW	INSTRUM_INS0...	No matching obje...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	tag (23).object
Chemical_9565-PG	INSTRUM_INS0...	No matching obje...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	tag (24).object
Chemical_6201-AT	INSTRUM_INS0...	No matching obje...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Buttons in the dialog: Refresh, Update Hotspots, New Object, Properties, Create Link, Remove Link, Close.

Checkboxes: Compare tag types

SAP® Certified

Integration with SAP Applications

Within the theme “Maintenance & Engineering Connected” we have made now a SAP certified integration.

The integration is initially for SAP EAM, enabling direct synchronization of asset tags with the Meridian platform. Instead of uploading or linking documents manually against each asset in your SAP solutions, the integrated solution with Meridian, reduces the effort for initial upload.

After release of a new version of the documents, the links do not have to be created again. In this way Operations & Maintenance is always working with up-to-date technical asset information, made available through the Explorer Plus client or Explorer Mobile app.

The screenshot displays the BlueCielo SAP Connector application. The main window shows a data table with columns: FUNCTIONAL_LOCATION, AUTHGRP, OBJECTTYPE, INVENTORY, OBJ_SIZE, EQUIPMENT, AUTHGRP, OBJECTTYPE, INVENTORY, OBJ_SIZE. The table contains various asset identifiers like 1034-LABS-001, 1171, 1171-ADMI, 1171-PRD, 1171-PRD-001, 1171-PRD-002, 1171-PRD-003, 1171-RZHT, 1172, 1177, 1177-ADMI, 1177-ADMI-001, 1177-ADMI-002, 1177-ADMI-003, 1177-PRD, 1177-PRD-001, 1177-PRD-002, 1177-PRD-003, 1177-RZHT, 2141, and 3301. The EQUIPMENT column lists TEW-09 through TEW-15.

A 'Settings' dialog box is open in the foreground, containing the following sections:

- Export Parameters**
 - Incremental update: **False**
 - LastSuccessfulExport: 11/17/2015 5:22 PM
- Filtering**
 - Export Functional Locations: **True**
 - Export Equipment: **True**
 - Date modified after: **1/1/1900**
 - Functional location starts with: (empty)
 - Extra conditions: (empty)
- Source SAP System**
 - Application server: **52.7.193.86**
 - System number: **00**
 - System ID: **BC1**
 - Client: **800**
 - Language: **en**
 - User name: **idadmin**
 - Password: **••••**
 - Confirm password: **••••**
 - Pool Size: **1**
- Target Database**
 - ExportDBFileName: **c:\DD\SAPExport.mdb**

At the bottom of the dialog box, there is an 'Application server' section with the text: 'URL or IP address of the source SAP application server'. The dialog box has 'OK' and 'Cancel' buttons at the bottom right.



MERIDIAN ENTERPRISE

BlueCielo Meridian 2016 – Features mapped to modules

This section is for customers who started working with the Meridian software before the 2015 release.

Module Mapping

Module	Base	Standard	Plus
Meridian Power	Enhanced Web client with Ribbons Application integration, support for latest releases New iFilter for DWG & DGN		
Meridian Explorer	✓	Explorer Mobile 1.1	
Publisher	New render engines Support for rendering raster files		
Explorer	✓	Export & Import Packages For file transfer, FTP, HTTP and M360 Portal	
Advanced Project Workflow		✓	✓
Shared Workspace		✓	✓
GCF		✓	✓
FDA			✓
Asset Management			DGN Tag extraction, SAP Certified
Server	Base Server* Single Server	Enterprise Server Multi-Server Capability	

*The Base Server is not eligible for server extension licenses.

✓ = Functionality is provided for that product level, but no major improvements or enhancements have been made in the Meridian 2016 release.

In Meridian 2015 we introduced the product levels Base, Standard and Plus. In earlier releases we worked with modules.

In Meridian 2016 we have introduced over 100+ new features and enhancements besides more than 300 other improvements to Meridian and related modules. In this document only the new key capabilities have been highlighted.

In this table we give an overview of the new features of Meridian 2016 and in which Meridian module they have been implemented.

About BlueCielo

Owner Operators act on a dynamic and globalizing market in pursuit of the highest possible profitability. Both internal and external factors change the circumstances constantly, requiring the plant manager to take appropriate action. BlueCielo delivers software to maintain asset data integrity and creates new efficiencies throughout the entire asset lifecycle, enabling our customers to demonstrate regulatory compliance while measurably reducing risk.

As an independent global player, BlueCielo has built the largest share of proven worldwide successful customer deployments in the past 30 years. Through our focus and commitment, we have built unparalleled expertise within the field of Engineering Information Management and Asset Lifecycle Information Management, contributing daily to the revenue of the largest global enterprises. BlueCielo is an official partner of Autodesk, IBM, Microsoft, Oracle and SAP.

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