

BlueCielo Meridian Enterprise for Oil & Gas



A Platform for Engineering Content Management

white paper

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Executive Summary

The globalization and open market economy in the oil & gas industry are causing challenges for owner operators and Engineering Procurement and Construction (EPC) contractors. Merger and acquisitions are taken place between oil & gas companies. Other oil & gas companies are unbundled and split up in distributors and producers.

At the same time the oil & gas sector is facing strict legal and environmental regulations and increased demand for plant safety and economic efficiency. Oil & gas companies face the challenge to improve their operational excellence while lowering environmental impact.

In today's engineering practice EPC contractors are not just responsible for the Engineering, Procurement & Construction of new or revised assets, but also get the assignment to maintain the assets for a longer period of time. The responsibility of EPC contractors shifts from asset provider to service provider. The as-built assets become the as-serviced assets. In analogy to this paradigm shift EPC contractors become Integrated Service Contractors (ISC).

BlueCielo provides a number of solutions to address above mentioned business challenges in the oil & gas industry. The foundation of the overall solution is based on BlueCielo Meridian Enterprise. BlueCielo Meridian Enterprise is BlueCielo's engineering content management (ECM) platform. An increasing number of BlueCielo modules are available on top of the ECM platform. For asset information management the Asset Management Module (AMM) is available. The BlueCielo Publisher Framework (IPF) provides enhanced functionality for rendering and publishing documents. The Global Collaboration Framework (GCF) is used for project collaboration and enables information exchange between BlueCielo Vaults. The Advanced Project Workflow (APW) module provides a collaborative project environment for asset owners and EPC contractors.

Several user interfaces are available to support different type of users and roles in an organization. Engineering disciplines for instance are working with the BlueCielo Power User, while other types of users are more into web based ECM clients.

BlueCielo optimizes your business processes related to the creation, collaboration and distribution of engineering content in order to:

- Meet governmental safety, health and environmental regulations
- Provide real-time access to engineering content from all locations
- Maintain a complete and up-to-date as-built situation
- Enable complete revision and status control of all engineering content
- Streamline document and project workflow processes

BlueCielo has recognized expertise in engineering content management for the oil & gas industry. In the oil & gas industry best practices have been implemented in modules to achieve the follow benefits at BlueCielo customers:

- Integrated Engineering and Maintenance
- Global Cross-Discipline Project Workflow
- Automated Transmittal Process with Contractors
- Engineering Content Published to Enterprise

Introduction

The globalization and open market economy in the oil & gas industry are causing challenges for asset owners and operators and engineering procurement and construction (EPC) companies. Oil & gas companies are acquired and merged into larger oil & gas organizations. Other oil & gas companies are unbundled and split up in distributors and producers.

At the same time the oil & gas sector is facing strict legal and environmental regulations and increased demand for plant safety and economic efficiency. Oil & gas companies face the challenge to improve their operational excellence while lowering environmental impact.

Purpose

This whitepaper will address key challenges of the oil & gas industry i.e. how to optimize business processes in maintenance management in operations and engineering projects. Furthermore this whitepaper will elaborate on key areas where BlueCielo can improve operational excellence and lower environmental impact. This whitepaper has been published to envision the solution of BlueCielo for the oil & gas industry.

Oil & Gas Challenges

The value of oil & gas is determined by supply and demand. With a rising demand in the Far East and less supply in North America and Western Europe the balance of supply and demand is changing. Furthermore, climate changes and government regulations demand a health and safety environment for operational assets.

To comply with government regulations and provide higher return on investment, oil & gas companies are finding new ways to explore, develop and produce oil & gas resources. An example is the increased demand for Floating Production, Storage, and Offloading (FPSO) vessels. Unlike offshore production platforms, FPSO's can be undocked and moved to a safe harbor in case a major hurricane like Katrina causes destruction in an oil & gas producing area like the Gulf Coast.

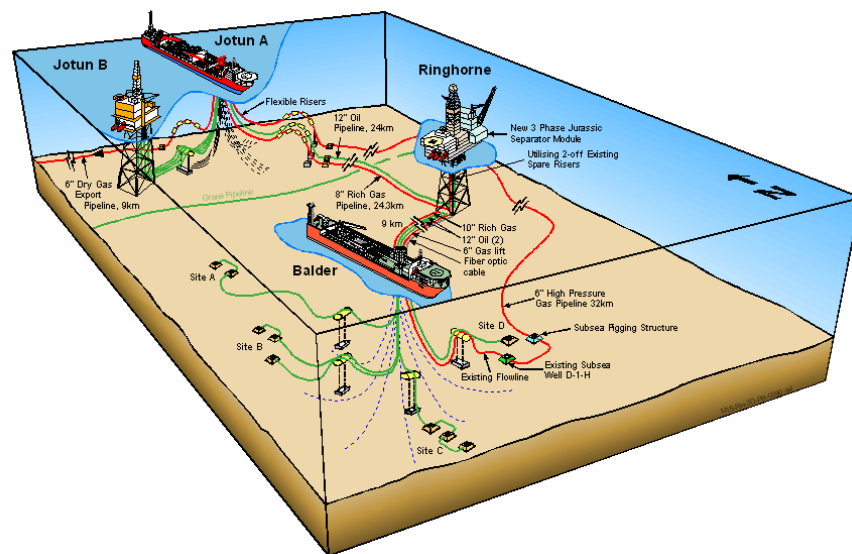


Figure 1: Oil & Gas Value Chain, Source Exxon Mobile

The FPSO vessel is moved into position above the oil & gas field and moored to a location using a turret, buoy, tower, or spread mooring system. Oil and gas lines are connected to the FPSO vessel and the field is operational. In case of an emergency the FPSO vessel is disconnected and moved to a safe harbor. The FPSO vessel is operated

by its owner i.e. the oil and gas company. Engineering, construction, and build are often executed using an Engineering, Procurement and Construction (EPC) contractor. A document transmittal process is needed to exchange engineering content.

In today's engineering practice EPC contractors are not just responsible for the Engineering, Procurement & Construction of new or revised assets, but also have the assignment to maintain the assets for a longer period of time. The responsibility of EPC contractors shifts from asset provider to service provider. The as-built assets become the as-serviced assets. In analogy to this movement EPC contractors become Integrated Service Contractors (ISC's). The ISC needs to manage engineering content and assets for engineering projects and as-built environment.

Oil & Gas Asset Lifecycle

The oil & gas asset lifecycle can be divided in operations & maintenance and engineering & construction. In the asset lifecycle picture below this is indicated with a dotted line. The operations & maintenance process is about efficiency and keeping the license to operate. Downtime minimization by using intelligent maintenance processes is necessary to provide operational excellence. Operational excellence can be improved by connecting maintenance asset to engineering content (2). The engineering & construction process is about cost, time and resources in a collaborative project environment (3). Keeping control over allocated budget is necessary to manage the engineering process efficiently. Multiple disciplines need to work closely together during engineering & construction. Engineering, procurement & construction is often contracted to external companies (4). These companies need to have a document transmittal process in place to exchange engineering content and correspondence. At the end of the engineering & construction phase the as-built engineering content has to be delivered to the asset owner (5)..

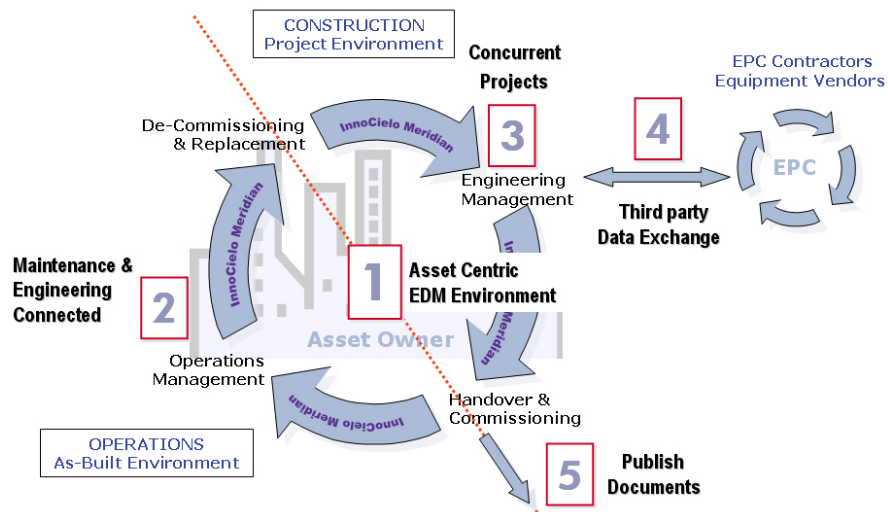


Figure 2: BlueCielo ECM Environment

Another area to emphasize in the oil & gas industry is the safety and health environment. Governmental organizations and authorized bodies demand asset owners to operate according to safety and health regulations. An inspection process needs to be in place in order to keep the license to operate. A safety and health environment has to be guaranteed in both operations and engineering environments. Operations determine the inspection interval of all the assets and provide regulatory authorities with a complete overview of the inspection management reports at any moment in time. New and revised assets from engineering are disclosed with inspection reports. Inspection reports are published to authorized bodies to provide an audit trail.

Business Requirements

For oil & gas owners and operators, a number of business challenges related to the creation, collaboration and distribution of engineering content have been identified to

increase plant safety, economic efficiency and compliance to environmental and legal regulations.

1.1 Single source of asset information

One of the key requirements in the oil & gas industry is the ability to provide and manage the as-built environment. In order to do so the relation between assets and engineering content has to be managed. The asset-content relationship enables intuitive content search and reduces as-built costs by keeping the engineering content consistent with the actual situation. A consist as-built environment is required to execute vital processes and to preserve your license to operate.

In an average facility there are thousands of assets which are identified by a unique number like tag number, functional location number or KKS number. These numbers are usually managed in Maintenance Management or similar systems. Such systems lack engineering data management functionalities and thus are unsuitable to manage the hundreds of thousands technical documents and their relations to assets. As such documents are not only related to physical assets but also to combinations of assets or activities, a more appropriate term is "object-document" relations. The object-document relation needs to be up-to-date to provide a consistent as-built environment.

1.2 Maintain as-built engineering content

A daily challenge for utility owners is the operational excellence of revenue generating assets. The assets are managed in a so called as-built structure. The location of the assets in the as-built structure is identified with a tag or object. Engineering content, like maintenance orders, vendor details, spare parts and inspection data is related to the tag or object. The challenge for utility companies is to maintain the as-built relationship between tag, object and engineering content.

Engineering content also has to be integrated with existing Maintenance Management Systems, to bridge the gap between Maintenance and Engineering. Maintenance engineers need to search and retrieve technical documentation from within their present Maintenance Management System, such as when accessing a work order, equipment or job-plan, or to make remarks about existing engineering content.

1.3 Global, cross-discipline workflow

Globalization and open market economy has caused a paradigm shift for global oil & gas companies with local and/or outsourced engineering teams. The paradigm shift has changed the nature of engineering from on-shore to near-shore and off-shore practices. Today engineering content needs to be exchanged simultaneously between dispersed engineering teams across the globe. The engineering content varies from html/xml documents to 2D/3D CAD assemblies. To enable concurrent engineering a global collaboration and workflow framework is required to exchange engineering content across the globe.

1.4 Manage document transmittals

Engineering projects are usually outsourced to contractors. From plant owner perspective the project management process consists of the steps as indicated in the workflow schema. After the project environment is created, the requirements data must be sent to the selected contractors.

The contractors will do their engineering work and when that is done the asset owner will receive the engineering content for review. In the review the delivered content might be approved or rejected. When the content is not approved it might cause impact on the engineering job of the other contractors in the same project or it might have impact on other projects. Managing risk, cost, time and



resource is a major challenge in engineering projects.

1.5 Make engineering content available to the enterprise

Engineering content is in continuous change. Documents are created, updated, reviewed, released, revised and deleted. At certain points in their lifecycle, engineering documents and reports must be handed over to other departments in the organization, or outside the organization. In many companies this is a cumbersome, manual or unstructured process.

Engineering documents may be created in AutoCAD DWG (or another) format, but released engineering documents may need to be made accessible in the document management system in PDF or DWF format for viewing purposes. As part of the release process, engineering documents must be converted into easily accessible formats and stored in systems where other people can retrieve the information, replacing outdated copies.

BlueCielo Meridian Enterprise

BlueCielo provides a number of solutions that increase the efficiency of organizations in the oil & gas industry. The foundation of the overall solution is based on BlueCielo Meridian Enterprise. BlueCielo Meridian Enterprise is BlueCielo's engineering content management (ECM) platform. An increasing number of BlueCielo modules are available on top of the ECM platform. The following functional modules are available today: Asset Management module (AMM), Publisher Framework, Global Collaboration Framework (GCF) and Advanced Project Workflow.

Several user interfaces are available to support different type of users and roles in an organization. Engineering disciplines for instance are working with the Power User, while other types of users are more into web based ECM clients.

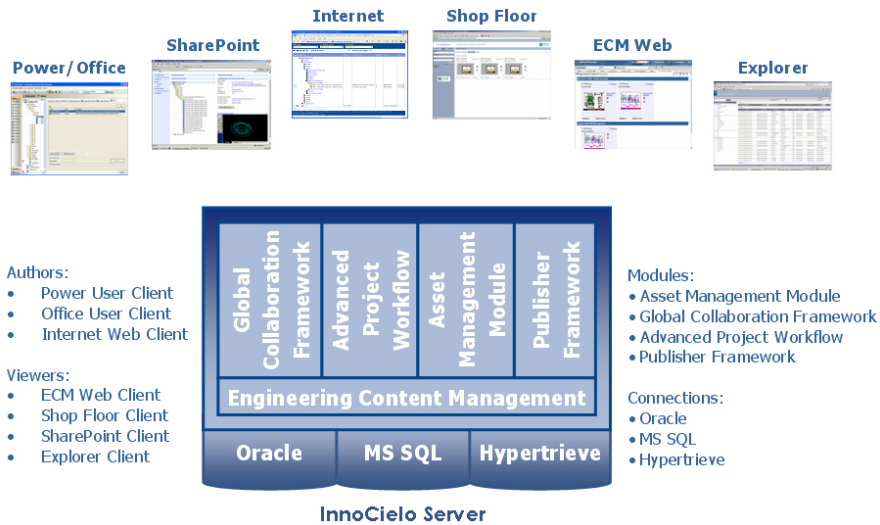


Figure 3: BlueCielo Clients and Modules

1.1 Asset-Centric EDM environment

The main objectives of BlueCielo Meridian Enterprise are asset-centric storage, version management and the retrieval of engineering content. This applies to the full lifecycle of engineering content and is part of the engineers every day primary work processes. Embedded security guarantees that only authorized users can edit and modify drawings.

BlueCielo Meridian Enterprise is especially designed for managing drawings. The integration with 2D and 3D CAD applications, including AutoCAD, MicroStation, Autodesk Inventor, SolidWorks and others, is a major core feature of the software. Engineers can

focus on their primary job, while engineering content is managed in an asset-centric environment.

Asset-centric storage prevents the loss of documents and a knowledge drain within the organization. Extensive search options are available to quickly find and retrieve engineering content. This results in an improvement in efficiency in your company.

To streamline business processes, advanced document workflow capabilities are available in BlueCielo Meridian Enterprise. The approval and release process can be configured according to the company quality standards. Inter-disciplinary checks can be part of the quality procedure. Advanced document workflow also enables flexible revision schemes on document types to provide intermediate document versions. Electronic approval and sign off for all engineering content further improves efficiency.

1.2 Maintenance and Engineering connected

The BlueCielo Asset Management module (AMM) provides the best practice for managing objects and documents and the relationship between them. This additional functionality is specifically developed for the chemical process industry. A link between objects and documents ('tag-doc' relation) allows you to find the complete set of documents quickly for a specific asset. The completeness and as-built status of the set of documentation can be determined without any delay and action can be taken if there are any discrepancies. The 'tag-doc' relation can be used to identify the documents that belong to a particular asset and, in addition, to identify which assets are described by a given document.

By establishing the relation between objects and documents the maintenance department will have the right, up-to-date documents immediately available through the maintenance management system without losing time searching. The information from the engineering content management system is immediately at hand because work orders relate to particular assets (or functional locations).

The documents released by Engineering (standard operating procedures, P&IDs, drawings, work instructions, data sheets, etc.) are presented in a web browser with thumbnails, supplemented by metadata such as the document name, version and status ('Under Change' or 'As-Built').

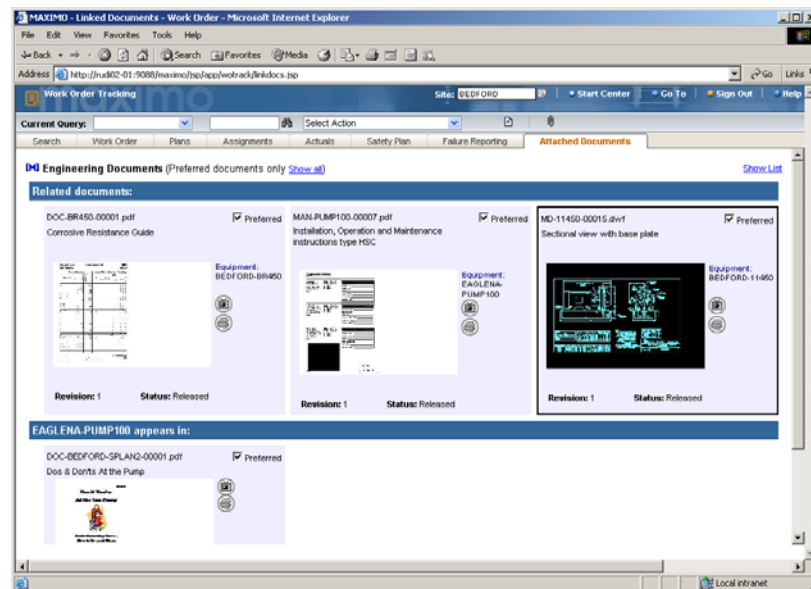


Figure 4: Work orders are available in BlueCielo Meridian Enterprise for Maximo users.

The maintenance engineers can study the documents in detail from within the maintenance management system using the embedded BlueCielo Viewer. Any comments about the document can be filled in, if necessary along with redlining on the document.

The comments and redlining go straight to BlueCielo Meridian Enterprise and are entered on the 'To-Do' list for the engineering department. As soon as Engineering processes the document, the status changes and Maintenance is provided immediate feedback when that same document is viewed within the maintenance management system.

The integration of maintenance management systems and BlueCielo Meridian Enterprise is possible for the most common systems, like Maximo, SAP PM and DataStream. This results in an ongoing improvement of the reliability of the available data which leads to efficiency improvements and shorter production stops.

1.36.3 Collaborative project workflow

Improvement proposals can emerge from day-to-day maintenance work. These may result in new projects. The appropriate documents can be collected using the area codes and tag numbers. The BlueCielo Advanced Project Workflow module provides the ability to establish a project environment and manage work in progress engineering content in a project environment. Current documents are available for maintenance and operations in the as-built environment, while reference documents are derived in the project environment. The picture below shows a document in the as-built environment, with a reference document in the project environment.

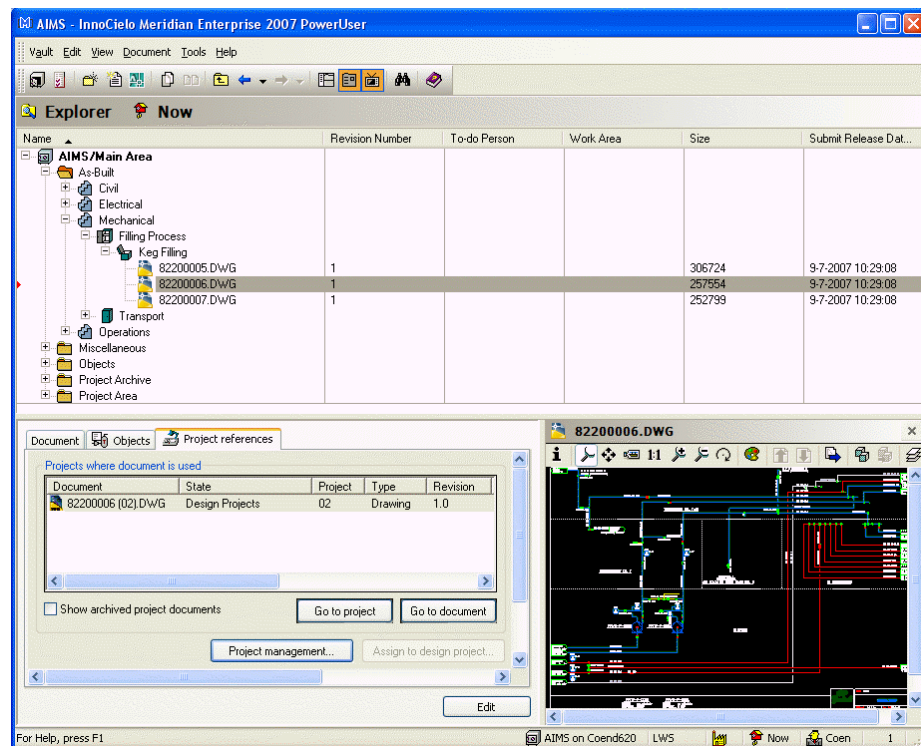


Figure 5: as-built document with project reference

A complication is that some documents are required in several projects at the same time. This is no problem using BlueCielo Advanced Project Workflow. When a document in a project moves to an as-built project, this document must be compared with the latest released version in the as-built environment. The standard compare functionality provides good support for this handover to the main area. There is also an automatic indicator showing whether all documents are available in accordance with statutory or quality requirements. The combination of these two features results in a high level of reliability for the total set of as-built documents for future maintenance work on the new part of the installation.

When documents are assigned to an as-built project, the new versions should be made available for the entire organization. The staff working on other projects in which the document in question is used can be notified (by email) that there is a new version.

Documents are selected on the basis of the tag numbers when establishing a project environment. Only authorized project staff can access the project folder. During the project, new tag numbers can be used that will have to be activated in the maintenance management system. By this system the right documents are immediately available to the maintenance engineers. This results in a seamless handover of checked sets of documents from the project environment to the as-built environment.

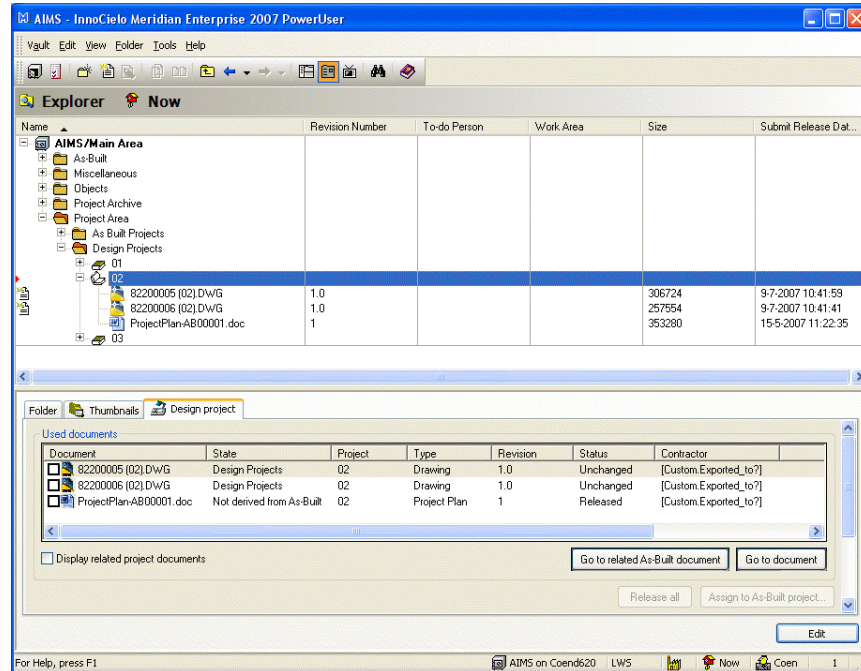


Figure 6: Design Project Workflow

On top of the Advanced Document Workflow, the Advanced Project Workflow module will provide functionality to handle:

- Due dates and progress reporting
- Configurable distribution and notification rules
- Workflow schema for compliancy
- Parallel review support
- History and change logging
- Audit log per document set and per document
- Extensive commenting facility for audit trail
- Work pack management
 - Containers (container types, with their own properties and workflows)
 - Project Management
 - Concurrent projects
- Expedite workflow to meet deadlines
- Notification on document update to other projects at project closing

The BlueCielo Advanced Project Workflow module provides the following additional benefits:

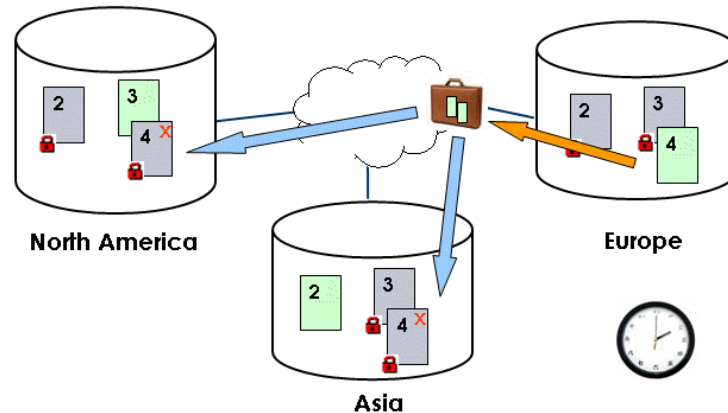
- Reduced project throughput time
- Improved design quality
- Manageable project deadlines
- Traceable bottlenecks
- Parallel project execution
- Improved business processes, embodied in an automated system to achieve regulatory compliance
- Accurate document distribution with less effort
- Support for settlement of legal issues by audit trail

1.4 Collaboration and automated document transmittals

Multiple sub-contractors are working on the same project. The BlueCielo Open BriefCase provides a unique way to support document transmittals for sub-contractors. Every contractor gets its own BriefCase. Based on document selection the documents are placed in the contractors' BriefCase. The documents in the BriefCase are either marked as locked or as reference and sent to the contractor. The contractor works on the updates and may eventually add other documents to the BriefCase. The marked documents are revised, and sent back. After comparison, the revised documents are used to update the original revision.

A more advanced way to automate the document transmittal process is provided by the BlueCielo Collaborative Framework. Using the Global Collaboration Framework engineering content like document transmittals can be exchanged between dispersed engineering locations on scheduled time intervals and on demand.

The picture below shows the concept of the Global Collaboration Framework. At all sites, documentation can be enlisted for other sites. Once enlisted the other sites get scheduled updates of files that have been changed. Document ownership starts at the site where the document is created, however can travel along the project lifecycle. For example a sub contractor can handover documents to the main contractor and the main contractor can handover documents at the commissioning of the asset. People in the organization can be informed by email about the arrival of new document versions.



The global collaboration framework can also be used in a single project to support document transmittal with external partners. The collaborative framework is in this case used to automate document transmittals between client, contractor and sub contractors. The transmittal history states exactly what has been sent, when, and whom. Some documents will be made available for editing, with others only being available for information purposes. The external partners can then adjust the documents with their own engineering system. The adjusted and added documents (including contractor documentation) are returned to the main contractor. The updated information is automatically updated in the as-built project of the main contractor. The workflow capabilities can be used to verify and release incoming documents in the as-built environment. In this way, it is easy to compare the incoming documents with the original documents. After approval, they can be passed on into the internal authorization process.

1.5 Publishing to the enterprise

Engineering content is in continuous change. Documents are created, updated, reviewed, released, revised and deleted. At certain points in their lifecycle engineering documents must be handed over to other departments in the organization, or outside the organization. In many companies this is a cumbersome, manual or unstructured process. In this process, engineering documents must be converted into easily accessible formats and stored in systems where other people can retrieve the information, replacing outdated copies.

The BlueCielo Publisher module makes it possible to automate such processes, triggered by predefined document lifecycle events, time schedules or on an ad-hoc basis. BlueCielo Publisher is frequently used in scenarios where the engineering data managed by BlueCielo Meridian has to be made available to a wider audience in the native file format or in an alternative file format such as PDF or DWF. The BlueCielo Publisher module provides an out-of-the-box publishing solution supporting several standard configurations, and also offers the possibility to add rendering or publishing components to create a fully customized publishing solution.

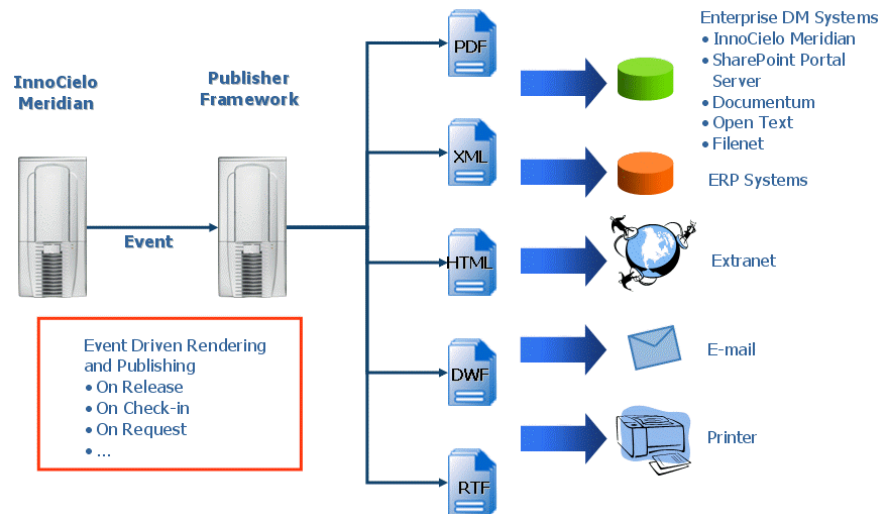


Figure 7: Publish Engineering Content

Business Benefits

Working with BlueCielo Meridian Enterprise provides your organization benefits in various areas. The main objectives of an Engineering Content Management System are central storage, version management and the retrieval of drawings and technical documents. This does not only apply during the creation and change of documents, but also when documents have been released and the rest of the organization wants to use them within their every day primary work processes.

Central storage with a clear overview of who is working on which version of a document, provides numerous benefits for an organization. Central storage prevents the loss of documents and a knowledge drain within the organization. When there are large numbers of documents, BlueCielo Meridian Enterprise also supplies extensive search options so that they can be located quickly. This results in an improvement in efficiency in your company.

Document security, approval and workflow options are available in BlueCielo Meridian Enterprise. Authorized users can modify or view drawings. The approval processes are configured in BlueCielo Meridian Enterprise to comply with your company's quality standards. Document approval with inter-disciplinary checks are part the BlueCielo Advanced Document Workflow capabilities. Advanced Document Workflow also enables flexible revisioning schemes on document types to provide intermediate document versions. Efficiency is further improved by electronic approval and sign off for all engineering content.

BlueCielo Meridian Enterprise features integration with the major CAD design software tools (e.g. AutoCAD, Autodesk Inventor, MicroStation and SolidWorks), authoring tools (e.g. Microsoft Office), facility management systems (e.g. ARCHIBUS/FM), and enterprise asset management systems (e.g. SAP PM, IBM MAXIMO and DataStream). The integration with asset management includes web based references to engineering content in BlueCielo Meridian Enterprise.

The BlueCielo Asset Management module manages the asset-documents relation. Managing assets, objects, tags, and engineering content from a single application brings efficiency to the organization, because the connection between the assets and the content is maintained only from a single location and the consistency is secured from both engineering and operations.

The BlueCielo Advanced Project Workflow module enables seamless engineering content handover between operations and engineering. Engineering content is taken from the as-built environment and referenced in the project environment. Once the project is finished the documents are released for the as-built project. The Advanced Project Workflow module improves the workflow throughput time between as-built and engineering projects and improves consistency of the engineering content in both as-built and project environment.

BlueCielo optimizes your business processes related to the creation, collaboration and distribution of engineering content in order to:

- Meet governmental safety, health and environmental regulations
- Provide real-time access to engineering content from all locations
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BlueCielo has recognized expertise in engineering content management for the oil & gas industry. In the oil & gas industry, best practices have been implemented in modules to achieve the following benefits at BlueCielo customers:

- Integrated Engineering and Maintenance
- Global Cross-Discipline Project Workflow
- Automated Transmittal Process with Contractors
- Engineering Content Published to the Enterprise



Customer Use Case

ExxonMobil in Norway is the fourth largest oil and gas producer with more than 20 gas and oil fields in production, and a 10% stake in the Norwegian infrastructure for gas transportation and treatment. ExxonMobil is the largest international producer and investor on the Norwegian continental shelf and operates the Balder, Jotun, Ringhorne, and Sigyn fields. Production in 2004 was about 440,000 barrels oil equivalent per day, which is equivalent to about 10% of the total Norwegian production. This amount represents about 10% of ExxonMobil's production worldwide.

ExxonMobil has over the years been a substantial investor on the Norwegian continental shelf. In 2004 the company invested NOK 4.8 billion, and over the last 15 years the company has invested close to NOK 6 billion on average per year in Norway. ExxonMobil intends to be a long-term player on the Norwegian continental shelf.

Challenges

The comprehensive engineering documentation challenges that an oil and gas company like ExxonMobil has to deal with include:

- Safety, health and environment (SH&E) regulations of the Norwegian government must be met.
- All technical documentation must be real-time and easily accessible, from all onshore and offshore locations while at the same time the many contractors and suppliers must be able to access the appropriate documents.
- While maintaining a complete and up-to-date as-built situation of all locations ExxonMobil must have complete control of all documents that are under revision, either internally or outside with contractors.
- Immediate, complete and up-to-date document availability for maintenance purposes.

Partnership

Back in the 1990s, BlueCielo ECM Solutions was the preferred supplier of Engineering Content Management (ECM) solutions for ExxonMobil worldwide. So when in 1996 ExxonMobil in Norway needed an ECM system, AutoManager WorkFlow (now discontinued) from BlueCielo was the obvious choice. After seven years of successful operation, ExxonMobil decided in 2003 that it was time to take advantage of the next generation of ECM software. BlueCielo was still the preferred ECM supplier and in order to meet ExxonMobil's extensive requirements, BlueCielo's flagship product, BlueCielo Meridian Enterprise (formerly AutoManager Meridian) was chosen as the new ECM system.

BlueCielo's long-standing Norwegian solution partner KTB Consultants AS has been the ECM supplier for ExxonMobil since 1996. Eirik Fjelde, regional manager and responsible for document management solutions at KTB Consultants AS, says, "Already in 2003 BlueCielo Meridian Enterprise represented a breakthrough in functionality and was it perfectly capable of fulfilling the high demands of the offshore oil and gas market."

Although BlueCielo Meridian Enterprise is already several years in operation, ExxonMobil, together with KTB Consultants AS, continues to expand the use and functionality of their BlueCielo Meridian Enterprise ECM system.

In order to meet all these challenges ExxonMobil had to take the management of its engineering documentation to a higher level. Just managing the engineering processes would not be sufficient and ExxonMobil took, with the help of KTB Consultants AS, their ECM solution to the enterprise level.

Solution

Today, BlueCielo Meridian Enterprise system manages approximately 120,000 technical documents regarding all offshore installations, including all sub sea installations and the topside installations being the platforms JotunB and Ringhorne and the floating processing units JotunA and Balder.



Benefits

ExxonMobil's Facilities, Exploration and Production departments have direct access to all documentation. Using a satellite link, each offshore facility has immediate access to the documentation as well. And finally external parties, like contractors, can request documentation via a Citrix connection. In this way a total of nearly 1,250 people have 24/7 access to the documentation. "It is extremely important that all parties work in one system," says Per Skarung, implementation facility manager at ExxonMobil Norway. "Only in this way all locations whether they are onshore, offshore, supplier, contractor or my own office can be guaranteed fast and easy access so that document availability is never an issue."

In the ECM system documents are automatically named, stored and easily retrieved according to an engineering numbering system which is based on the NORSOK standard. As part of the management of change functionality, extensive logging functionality is built in so that audits are never an issue. For maintenance purposes, BlueCielo Meridian Enterprise is integrated with applicable engineering databases. In addition, a special non-document-centric user interface is available so that maintenance staff, either onshore or offshore, only needs to know an equipment tag number to retrieve all relevant documentation with only a click of the button.

Throughout the entire implementation process of BlueCielo Meridian Enterprise, it was an ongoing requirement that all customization on top of BlueCielo Meridian Enterprise should not take away anything of the system's built-in user-friendliness. Proof that the final solution is very user-friendly is illustrated by the fact that new offshore staff only need one hour of training before they can use the ECM system.



Taking EDM to the Enterprise

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 capital-intensive owner/operators and engineering, procurement and construction or architectural (EPC/AEC) projects. With over 300,000 satisfied users worldwide, BlueCielo's independent AIM and ECM solutions integrate with virtually all mainstream document or content management systems and operational business control systems. The company is headquartered in the Netherlands and has offices in America, Brazil, Finland, Germany, Russia and the UK, together with an international network of well-established solution partners, ensuring global service and support for its best-of-breed software solutions BlueCielo Meridian Enterprise, BlueCielo ImandrA, BlueCielo Kronodoc, BlueCielo ProjectForce and BlueCielo TeamWork. One of the first to develop software to manage engineering data, BlueCielo has been a software technology pioneer since 1983, with unparalleled knowledge in the field of ECM. For more information, please visit www.bluecieloecm.com.

Questions?

For further information on this subject or about BlueCielo, please feel free to contact us by phone, email info@bluecieloecm.com or visit our websites.

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