

Integrating Maximo with InnoCielo Meridian Enterprise



Maintenance & Engineering Connected: Immediate Access to Technical Asset Information

white paper

Table of Contents

| | | |
|----------|--|----------|
| 1 | Executive Summary | 3 |
| 2 | Introduction to BlueCielo and ECM | 3 |
| 3 | ECM for Strategic Asset Management | 3 |
| 4 | The Integrated Solution | 4 |
| 4.1 | Maintenance and Engineering Connected | 4 |
| 4.2 | Increasing Accuracy, Efficiency and Communication | 4 |
| 4.3 | Optimizing Capital Projects | 5 |
| 4.4 | Communicating Equipment and Work Order Data | 5 |
| 5 | Key Benefits of InnoCielo Meridian Enterprise with Maximo | 5 |
| 5.1 | Increased Productivity | 5 |
| 5.2 | Decreased Costs | 6 |
| 5.3 | Improved Accuracy | 6 |
| 5.4 | Enhanced Revenue | 6 |
| 6 | Concluding Thoughts | 6 |
| 7 | BlueCielo ECM Solutions | 7 |
| 8 | Questions? | 7 |
| 9 | Contact Info | 7 |

1 Executive Summary

Combining the world-leading engineering content management solutions of BlueCielo ECM Solutions (formerly Cyco Software) with MRO Software's flagship strategic asset management solution, Maximo, customers can substantially increase their access to all essential, asset-related technical data for improved efficiency, cost reductions and enhanced asset management.

2 Introduction to BlueCielo and ECM

BlueCielo, a worldwide leader in Engineering Content Management (ECM), and MRO Software, the leading provider of Strategic Asset Management (SAM) solutions have partnered to offer Maximo customers the proven benefits of a best-in-breed integrated content management solution.

BlueCielo develops and markets ECM solutions that reduce time to market for manufacturers and reduce maintenance cost for asset owners. BlueCielo's enterprise ECM solution, InnoCielo Meridian Enterprise (formerly AutoManager Meridian), assures that the latest revisions of the right documents are available to the right people, every time.

Alongside flexible revision management, InnoCielo Meridian Enterprise offers workflow support for both projects and single document types. Users can compare revisions and reinstate previous revisions, and 'as-built' documentation is separated from 'under revision' data. InnoCielo Meridian Enterprise is fully CAD platform-independent, with bidirectional links offered for popular CAD platforms including AutoCAD, Microstation, SolidWorks, Mechanical Desktop, Autodesk Inventor and more.

BlueCielo ECM solutions are proven to help companies speed time-to-market, reduce costs, increase quality control, and improve interdepartmental and supplier communications.

What is ECM?

Engineering Content Management (ECM) provides full management of all asset-related technical information, like drawings, specifications, calculations, simulations, regulations and bill of materials (BOMs), throughout the entire lifecycle of the respective assets.

3 ECM for Strategic Asset Management

Strategic asset management (SAM) maximizes the performance of fixed, physical or capital assets that have a direct and significant impact on achieving corporate objectives. SAM solutions enable companies to manage the lifecycle of strategic assets from planning, procurement and deployment to tracking, maintenance and retirement.

Effective strategic asset management is an integrated, enterprise-wide undertaking. From production assets found in discrete or process manufacturing, facilities and fleet assets to hardware and software IT assets, companies exist as an interconnected system of assets.

As strategic asset management involves many different assets and departments across the entire corporation, however, the complex process often results in a number of common challenges: multiple and outdated versions of documents are stored in several places; no quick and secure access to the right documentation; loss of accuracy; time and effort wasted in searching for missing documentation. In turn, these challenges can result in wrong spare parts in stock due to outdated documentation, incorrect information sent to external parties, jeopardized confidentiality and security, unplanned process downtime, and even accidents due to wrong maintenance procedures.

In response to these issues, MRO Software has further enhanced its world-class asset management solution, Maximo, through the creation of an integrated solution with the ECM market leader, BlueCielo's InnoCielo Meridian Enterprise.

4 The Integrated Solution

The integration between Maximo and InnoCielo Meridian Enterprise enables the maintenance data management functionality of Maximo to connect with the content management capabilities of InnoCielo Meridian Enterprise. The seamless integration between the two products creates a synergistic environment where users can maximize the combined strength of both products.

4.1 Maintenance and Engineering Connected

The entire lifecycle of a manufacturing plant facility can be properly documented and managed – right from the engineering phase onwards – to help ensure optimum performance and maintenance, replacing the typical situation wherein plant owners receive little to no engineering data during a plant handover.

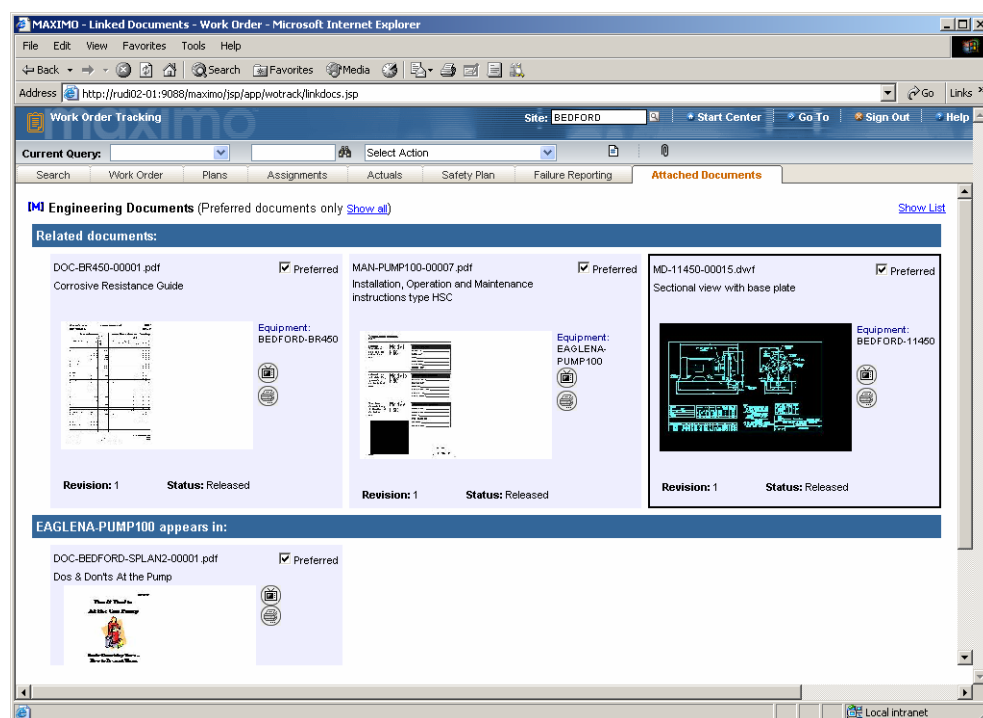


Figure 1 Equipment- or location-related engineering content managed in the secure environment of InnoCielo Meridian Enterprise

Users will see the revision and current status of the document as well as the document itself, via BlueCielo's viewer technology. Users can redline drawings and add comments based on the performed maintenance tasks. Interdepartmental communications are greatly enhanced as the engineering department is immediately notified of comments and provided with the remarks. All this, without having to leave the familiar Maximo environment.

4.2 Increasing Accuracy, Efficiency and Communication

When a maintenance engineer searches in Maximo for a piece of equipment, specifically linked documents will be attached. It is up to an archive manager to ensure that the latest revisions of the documents have been properly named, located and uploaded. With the InnoCielo Meridian Enterprise integration, Maximo users will have an automatically updated overview of relevant technical documentation as well as links to critical related information, such as work orders, performance data, and costs.

4.3 Optimizing Capital Projects

The Maximo user can easily assign all related equipment and locations to a Capital Project. When the work order for the capital project has been created, it will appear on the “to do” list of the engineering group. After approval, the project is created within InnoCielo Meridian Enterprise and all necessary documents are clearly delineated by project and subcontractor. During the lifetime of the capital project the Maximo users work with the current as-built information. Only after a certain stage has been reached in the project will the Maximo users will see the new version of the documentation.

4.4 Communicating Equipment and Work Order Data

All equipment- and location-related work orders are accessible by InnoCielo Meridian Enterprise users, ensuring that important work order histories and related information are available for better informed engineering decisions.

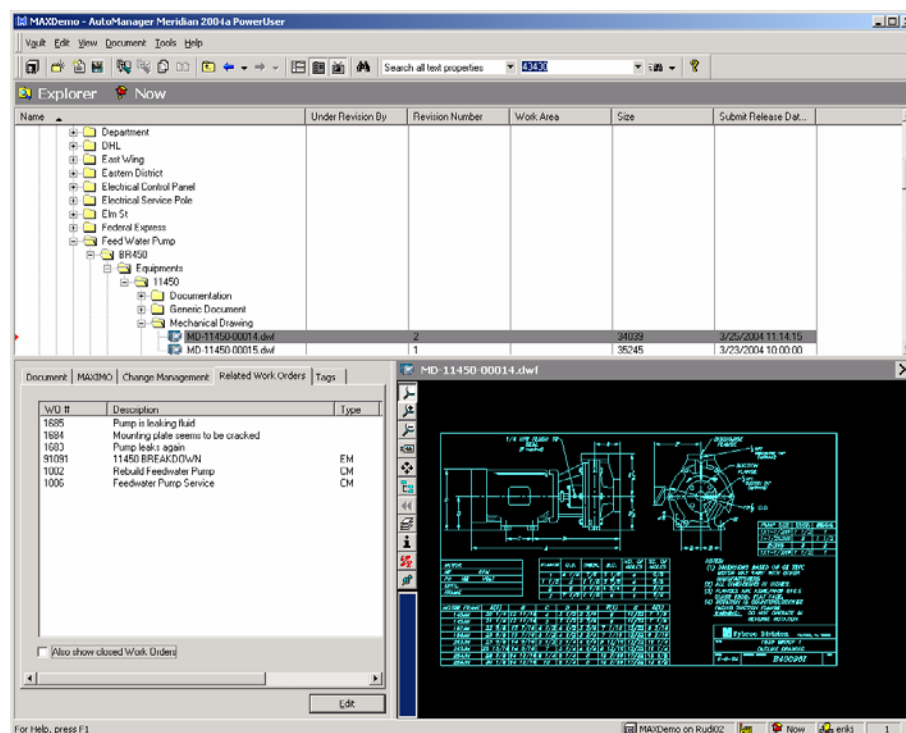


Figure 2 Work order-related data from Maximo available for Engineering within the InnoCielo Meridian Enterprise environment

5 Key Benefits of InnoCielo Meridian Enterprise with Maximo

By leveraging InnoCielo Meridian Enterprise, Maximo customers can substantially enhance access to all essential asset-related data during any phase of the asset lifecycle. From as early as the engineering phase, Maximo customers using InnoCielo Meridian Enterprise can experience a further increase in efficiency, productivity, quality and security as well as a reduction in maintenance and engineering costs across the entire organization from planning, purchasing and engineering to maintenance, construction and general management.

5.1 Increased Productivity

Easy to use and easy to implement, InnoCielo Meridian Enterprise helps customers to save time, decrease effort and eliminate the frustration associated with searching for missing or elusive documents. The return on investment associated with reduced search time and efficiency improvements has been proven to amount to 15 per cent or more, in many cases. Collaboration and communication between departments are also greatly improved, with InnoCielo Meridian Enterprise's efficient revision management.

5.2 Decreased Costs

The reduction in time spent searching for documents also translates into cost savings as human resources can be more effectively utilized in more productive ways. Printing, copying, paper and reproduction costs can be markedly reduced as accurately stored documentation and proper revision control eliminates the need for excess paper printouts. Significant cost savings can also be gained from the improved ability to purchase early in the engineering phase and the reduction of wrong spare parts ordered due to reliance on inaccurate or outdated documents.

5.3 Improved Accuracy

With InnoCielo Meridian Enterprise in place across the organization, accuracy improves in virtually every department. Purchasing is able to ensure that purchase requisitions and orders are based on the correct specifications. Construction is assured of access to the latest, approved versions. Maintenance can both reduce administration errors as well as ensure that the right spare parts are available with up-to-date documentation. Planning can import data per tag number and create BOMs with references to all documentation. Plus, legal requirements are maintained to quality standards and risks are mitigated due to reduced equipment failure and correspondingly fewer accidents.

"Pharmacia has saved a significant amount of money and increased document security by using InnoCielo Meridian Enterprise." – Franco Zambra, Systems & Automation Manager, Pharmacia/Pfizer, Italy

5.4 Enhanced Revenue

InnoCielo Meridian Enterprise enables reduced process downtime, increased product quality and faster time to market, all leading to increased production and enhanced revenue.

6 Concluding Thoughts

BlueCielo and MRO Software have now brought together their world-class solutions to enable Maximo customers to optimize their asset performance. The complexities of strategic asset management have been further reduced through the easy and ready access to accurate engineering content.

The seamless integration between Maximo and InnoCielo Meridian Enterprise enables customers to leverage powerful engineering content management along with their maintenance data management for increased productivity, improved accuracy and decreased costs.

With a rapidly growing base of joint customers, more and more companies are discovering that the InnoCielo Meridian Enterprise-Maximo integrated solution enables them to fully leverage the benefits of flexible, easy-to-use content management that provides a fast return on investment.



Taking EDM to the Enterprise

7 BlueCielo ECM Solutions

BlueCielo ECM Solutions (formerly Cyco Software) provides Engineering Content Management (ECM) solutions for multiple vertical industries, including utilities, oil & gas, petrochemical, pharmaceutical, government, transportation and process and discrete manufacturing. BlueCielo has over two decades of industry experience with more than 275,000 users in 50+ countries worldwide. The company has offices in the USA, UK, Russia, Germany, and The Netherlands and an extensive global network of established partners. BlueCielo ensures a high level of service and support on a truly worldwide scale for its leading software solutions InnoCielo Meridian Enterprise and InnoCielo Teamwork (formerly AutoManager Meridian and AutoManager TeamWork).

8 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.

9 Contact Info

Corporate Headquarters BlueCielo
Handelskade 49
2288 BA Rijswijk
The Netherlands
T +31 70 413 37 00
F +31 70 413 37 01
info@bluecieloecm.com
www.bluecieloecm.com

Americas
2400 Lake Park Drive
Suite 450
Atlanta, GA 30080
U.S.A.
Toll-Free 800 323 29 26
T +1 404 634 33 02
F +1 404 633 46 04
info@bluecieloecm.com
www.bluecieloecm.com

Europe, Asia, Pacific Rim,
Middle East, Africa
Handelskade 49
2288 BA Rijswijk
The Netherlands
T +31 70 413 37 00
F +31 70 413 37 01
info@bluecieloecm.com
Benelux: www.bluecielo.nl

DACH
Essener Strasse 5
46047 Oberhausen
Germany
T +49 208 305 85 00
F +49 208 305 85 025
info@bluecieloecm.com
www.bluecielo.de

United Kingdom, Ireland
Empress Business Centre
380 Chester Road
Manchester
M16 9EA
United Kingdom
T +44 161 877 55 79
F +44 161 877 55 80
info@bluecieloecm.com
www.bluecielo.co.uk

Russia, Russia and CIS countries
Korolev Street 6
249030 Obninsk
Kaluga region,
Russia
T +7 (48439) 63079
F +7 (48439) 65095
info@bluecielo.ru
www.bluecielo.ru

Copyright BlueCielo ECM Solutions. All rights reserved. BlueCielo, InnoCielo, Cyco and AutoManager are registered trademarks of BlueCielo ECM Solutions. All other brand names, product names, or trademarks belong to their respective holders.