

Enterprise Digital Rights Management (EDRM) for Bentley ProjectWise

OVERVIEW



Infrastructure design projects are complex, and data often needs to be shared internally with a global workforce and externally with engineering and construction partners and suppliers. Unfortunately, leakage of such critical and proprietary data is on the rise and can impact a company's business, compliance readiness, and competitiveness. A survey of leading executives indicates that the mishandling by insiders, suppliers, and partners is the leading cause of data breaches. NextLabs Enterprise Digital Rights Management (EDRM) for Bentley ProjectWise automatically extends security and control to files within and downloaded from ProjectWise to achieve end-to-end protection of CAD, BIM, geospatial and project data on the move.

THE SOLUTION

EDRM for Bentley ProjectWise is an integrated solution that automatically encrypts files before they can be shared with employees, suppliers, or partners. The encrypted wrapper includes security labels from ProjectWise that are used to determine the rights of users to access the data. Authorized users can open, view, and even modify the protected files using the native MicroStation and AutoCAD application. Data owners get full visibility into how their data is being shared, accessed, and used.

The EDRM solution provides the following key capabilities:

- Automated rights protection encrypts and tags valuable files managed in ProjectWise.
- Access and usage controls over files, such as limiting access, printing, copying, screen capture, and enforcing time-based rights.
- Grant user permissions based on existing ProjectWise user-lists.
- Support DGN and DWG in addition to other common file types including Office and PDF.
- Native integration with ProjectWise, MicroStation, and AutoCAD in managed mode.
- Support ProjectWise Web Gateway.
- Protected DGN and DWG files work consistently with ProjectWise, MicroStation, and AutoCAD functionality, including shared workspace, title blocks, references, and so on.
- Index protected DGN and DWG files with metadata contents and thumbnail image.
- Secure rendition job generated PDF files consistently.
- Secure viewing from any device with a HTML 5 browser.
- Monitoring and reporting of data use to get full visibility on usage and sharing of critical data.

THE RESULTS

Using EDRM for ProjectWise, companies can:

1. Automatically protect critical project data files in ProjectWise.
2. Extend ProjectWise security to project data files downloaded and shared with partners.
3. Control and log the access and usage of project data shared with employees, partners, and suppliers.
4. Eliminate manual security procedures that impede engineering project collaboration.

SOLUTION COMPONENTS

The EDRM solution is comprised of multiple integrated components selected and deployed according to a company's specific requirements. The complete solution allows companies to securely share product data both internally with global employees and externally with collaborative partners and suppliers. The components include:

Rights Manager for ProjectWise

Rights Manager for ProjectWise automatically protects sensitive files according to ProjectWise data classification and security. It integrates ProjectWise and the NextLabs Rights Management Server to protect (tag and encrypt) files before data is shared.

NextLabs SkyDRM Server with Web App

The NextLabs SkyDRM Server provides two functions. First, it applies rights protection, and secondly, it enables the secure viewing of protected documents from any device via a HTML 5 web browser. Available either on-premises or in the cloud, secure viewing is well-suited for use cases where product data needs to be shared with external users who are unable to install client side software or where users prefer to view the shared documents from mobile devices.

NextLabs SkyDRM Desktop with MicroStation and AutoCAD Integration

The NextLabs SkyDRM Desktop provides secure access, viewing, and editing of protected files using native applications.

Unlike other rights management products, which only support a handful of file formats and applications, the NextLabs product is built to support any file format and application, allowing customers to protect architecture, engineering, and construction data stored in CAD, BIM, geospatial and project files. For Bentley ProjectWise customers, native support for MicroStation, AutoCAD, and MS Office file formats is available making it well-suited for collaborative engineering project use cases. The NextLabs SkyDRM Desktop also works completely offline, making it well-suited for mobile users in the field that need offline access to project data.

Centralized Management and Reporting

EDRM for ProjectWise is built on the NextLabs Control Center, the industry-leading dynamic authorization policy enforcement platform for central management, policy control, and activity

analytics. You can now have one set of policies for all ProjectWise data with centralized visibility to quickly highlight unusual access patterns or behavior - to prevent breaches, misuse, and violations.

SUPPORT INFORMATION	
Supported File Types in Viewer	Microsoft Word, Microsoft PowerPoint, Microsoft Excel, Microsoft Visio, Adobe PDF, Source code (java, cpp, xml, html, etc.), Picture file (jpg, png, tif, bmp, etc.), CAD (MicroStation, AutoCAD, SolidWorks, Creo, CATIA, Parasolid, NX, Solid Edge, Siemens JT), SAP Visual Enterprise (Web Viewer only), Common CAD formats (dgn, dwg, igs, iges, stp, stl, step, etc.)
Supported Controls	View (Access Control), Edit, Print, Re-Share, Save As (Make a Local Copy), Extract (Make a Decrypted Copy), Watermark, Expiration
Server Platforms	Docker CE, RHEL, CentOS, Windows
Client Platforms	Web, iOS, Windows
Supported Identity Providers	Azure AD, Active Directory (AD), Okta, Active Directory Federation Services (ADFS), OneLogin, PingOne, SAML IdP, OAuth IdP, etc.
Supported Cloud and SaaS Apps	Google Drive, OneDrive, SharePoint Online, SharePoint On-Premises, Box, Dropbox
RMX for CAD and Authoring Tools	Microsoft Office, Bentley MicroStation, Autodesk AutoCAD, Siemens NX, PTC Creo, CATIA, SolidWorks.
RMX for Enterprise Applications	Bentley ProjectWise, SharePoint, Siemens Teamcenter, SAP ERP.

ABOUT NEXTLABS

NextLabs®, Inc. provides data-centric security software to protect business critical data and applications. Our patented dynamic authorization technology and industry leading attribute-based policy platform helps enterprises identify and protect sensitive data, monitor and control access to the data, and prevent regulatory violations – whether in the cloud or on premises. The software automates enforcement of security controls and compliance policies to enable secure information sharing across the extended enterprise. NextLabs has some of the largest global enterprises as customers and has strategic relationships with industry leaders such as SAP, Siemens, Microsoft, Amazon, and IBM. For more information on NextLabs, please visit <http://www.nextlabs.com>.

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