# WHY REDEYE OUTPERFORMS SHAREPOINT FOR MANAGING ENGINEERING DOCUMENTS

*Unlock the full potential of your operations teams with superior document management, featuring version control, mobile access, secure and compliant workflows, and quick document discovery.*

## DOCUMENT MANAGEMENT MAKE OR BREAK FOR ASSET-HEAVY INDUSTRIES

In asset-heavy industries, where precision and seamless collaboration are non-negotiable, efficient document and data management is critical to project success. Yet, many organizations still rely on legacy Document Management Systems (DMS)—platforms that were never designed to address the unique demands of engineering teams. The result? Inefficiencies, confusion, and unnecessary complexity that hinder progress and performance.

In reality, you need a solution designed for the modern challenges of engineering document management—something that cuts costs and admin time while making the lives of your engineers and contractors easier. You need a fit-for-purpose tool that does exactly what you need today but with the ability to scale as required in the future. **You need RedEye.**

This guide offers a detailed analysis of RedEye's capabilities and a side-by-side comparison to SharePoint. Explore how RedEye modernizes workflows, overcomes limitations of legacy systems, and drives operational efficiency for your organization.

## ABOUT REDEYE

**RedEye is the ultimate solution for managing engineering documents designed to meet the needs of companies of all sizes, from single-site operators to large and complex multi-site projects.**

As a collaborative platform, it provides a single source of truth, enabling unlimited users to access, annotate, and share files in formats like CAD, PDF, and more. RedEye's advanced search, powered by rich metadata, GIS, and GPS, delivers fast, accurate results—no matter the dataset size. With ISO27001 compliance, version control, and audit trails, RedEye ensures document security and integrity. It streamlines workflows, enforces compliance, and supports teams on iOS and Android, providing seamless access to critical information, whether online or offline: efficiency and security, all in one platform.

## ASSESSMENT & EVALUATION

Over the last five years, Kinsmen Group has conducted extensive research and assessments across multiple sectors, evaluating thousands of employees and departments focused on engineering document management (EDM). This research has provided deep insights into the core capabilities required to effectively manage technical and engineering documents.

Through this research, the Kinsmen Group identified 27 critical capabilities fundamental for a professional EDMS. These capabilities have been grouped into key functional areas—Operations & Maintenance, Capital Projects, and Engineering & Drafting—and each capability has been scored on a scale from 0 to 5, with 5 representing the highest level of performance.

The scores below reflect Kinsmen's evaluation of RedEye and SharePoint based on a standard configuration without special coding or development, ensuring an objective comparison of out-of-the-box functionality.

## REDEYE ENSURES

**Efficient Management:**
Collaborate on documents and drawings from any device, enhancing team efficiency

**Seamless Integration:**
With an open API, RedEye complements your existing software ecosystem, keeping stakeholders aligned

**Robust Workflows:**
Ensure compliance and accuracy with clear version control and audit trails

# SCORING SUMMARY

| FUNCTIONALITY | REDEYE SCORE | TRADITIONAL DMS SCORE |
|---|---|---|
| Operations and Maintenance | 45/50 | 18/50 |
| Capital Projects | 26/30 | 3/30 |
| Engineering and Drafting | 55/55 | 8/55 |
| **Total** | **126/135** | **29/135** |

This evaluation demonstrates that RedEye significantly outperforms SharePoint in every category, with RedEye achieving a 90% overall score compared to traditional DMS 21%. The following sections break down the specific capabilities analyzed.

# CAPABILITY REVIEW - OPERATIONS & MAINTENANCE

| CORE CAPABILITY | REDEYE ASSESSMENT | SCORE | SHAREPOINT ASSESSMENT | SCORE |
|---|---|---|---|---|
| A "Google" styled search engine for engineering information allowing for refined results like shopping on Amazon. | RedEye is optimized in many ways to find engineering content, including QR code generation. | 5 | SharePoint offers a generic search capability that is too limited for engineering. | 2 |
| Easily find documents and related drawings, for example, having hyperlinks between different P&ID's. | RedEye has a concept of an artifact that allows multiple streams of content to be associated with an engineering recordability to create references between files. | 4 | SharePoint does not allow for references between documents, but a document set could simulate this with configuration. | 1 |
| The ability to easily preview a drawing as part of a search. | Available out of the box and optimized for many different types of engineering content. | 5 | Offered out of the box, but limited to specific file types. | 2 |
| The ability to secure specific drawings for groups of people. | Great support for detailed security mechanisms within buckets and across buckets. | 4 | Possible to set up through custom groups, sites, etc., any referential integrity will be lost. | 2 |
| By default, the drawings found in a search result should only show the latest revision. | From the ground up designed to support engineering principles and will show only the latest revision by default. | 5 | DMS only offers VERSION control, which is a timestamp of the document change, not the same as an official engineering revision. | 1 |

# CAPABILITY REVIEW - OPERATIONS & MAINTENANCE

| CORE CAPABILITY | REDEYE ASSESSMENT | SCORE | SHAREPOINT ASSESSMENT | SCORE |
|---|---|---|---|---|
| **The ability to search the properties (metadata) and a document's contents.** | Available out of the box, including OCR of all documents and Engineering records. | **5** | Supported out of the box for a limited number of formats, mainly Office and PDF. PDF images will not be OCR'd. | **3** |
| **The ability to mark drawings as "uncontrolled", "in use", or "checked out" when they are downloaded from the system.** | Available out of the box. | **5** | Not available unless customized workflow. | **0** |
| **The ability for a user to define their own "views/ collections" for sets of drawings that they frequently use. Like a "Favorites" function.** | Views can be defined across large sets of documents, not limited to a library (folder). | **4** | Users can define their views in the context of a library, but not across libraries. | **3** |
| **The ability for operations and maintenance to electronically markup and submit changes for document control/ engineering to correct (i.e., field revisions).** | Available out of the box. | **5** | Not available. | **0** |
| **The ability to easily download one or more PDF documents from the system.** | Available out of the box though some competitors offer more flexibility. | **3** | Available at the library level and strong synchronization with One-drive. | **4** |
| **Total Score** | | **45/50** | | **18/50** |

## REDEYE HELPS OK TEDI OVERCOME THE OBSTACLES OF REMOTE ACCESS

Ok Tedi Mining Limited operates the longest-running open-pit copper, gold, and silver mine in Papua New Guinea (PNG). Managing a mine 2,000m above sea level in a dense rainforest brings many logistical and communications challenges, not the least of which is low bandwidth. The Ok Tedi team sought a drawing management solution that would perform reliably in these conditions. The solution needed to manage digital files from Ok Tedi's legacy drawing library and data assets from future projects and upgrades.

Ok Tedi chose RedEye to do the job. After several pilot projects, Ok Tedi's crews could operate and work without interruption by using the low-bandwidth and offline features of RedEye. These features allow operators to download relevant drawings from RedEye to mobile devices when they are connected to the Internet. They can then move to a low or zero-bandwidth area and mark up changes on the digital image. Once they have Internet access again, RedEye automatically synchronizes the updated drawing into the system.

**"We took advantage of RedEye's bulk data management tools to automatically remove duplicate files, quickly add metadata, and 'fold' multiple versions into single identifiable drawings."**

– Mark Kelly, Senior Draftsman, Ok Tedi

## RESULTS FROM USING REDDEYE

### 900K
Files Centralized

### 82%
Duplicate Reduction

### 16X
Productivity Improvement

# CAPABILITY REVIEW - CAPITAL PROJECTS

| CORE CAPABILITY | REDEYE ASSESSMENT | SCORE | SHAREPOINT ASSESSMENT | SCORE |
|---|---|---|---|---|
| **The ability to "transmit" and track one or more drawings to outside vendors for collaboration on projects.** | RedEye allows the definition of a project, and with unlimited users, people can work on projects collaboratively and track documents. | **4** | Only able to "share" documents. | **1** |
| **The ability for an online review and approval process with outside vendors for collaboration on projects.** | Fully support for collaborative work with contractors. | **5** | Not available. | **0** |
| **The ability for a vendor to send (return) drawings to track and control projects using an electronic management system.** | Fully supported as RedEye supports project workspaces. | **5** | Documents can be shared, but this is not sufficient from an engineering tracking point of view. | **1** |
| **The ability to "reserve" document numbers in batches upfront for use by the project team, including vendors.** | Templates can be used to create document numbers in bulk, with the correct title block and borders, promoting standardization. | **5** | It is not possible to reserve large sets of documents with the correct engineering document numbers. | **1** |
| **The ability to oversee distribution lists to manage reviews and/or approvals with vendors.** | Flexible workflows allow the assignment of tasks throughout the asset lifecycle, including group assignment. | **4** | Not available. | **0** |
| **The ability to automatically "quality check" the information submitted by a vendor (i.e., standards check).** | RedEye automatically notifies when references for AutoCAD files are not included, prompting the user to import any supporting files. Workflows can be used to set QA tasks after submission. | **3** | Not available. | **0** |
| **Total Score** | | **26/30** | | **3/30** |

## DIGITIZING DRAWINGS CREATES A CLEAN, SECURE, AND CENTRALIZED SOURCE OF TRUTH FOR URBAN UTILITIES

One of Australia's largest water distributor-retailers, Urban Utilities, is mandated to maintain asset data for its water and sewerage distribution assets, some of which date back to the early twentieth century. It also aggregates the engineering data from many regional councils in Southeast Queensland. With a desire to improve the overall ease and accuracy of governance and progress its digital transformation initiative, Urban Utilities sought to migrate its asset drawings and documents from on-premise to cloud-based storage in one central platform.

It chose RedEye to aggregate and validate its engineering data, and structure, and tag its vast pool of engineering data. This provided Urban Utilities with improved visibility for its network, in a way that could be easily and securely accessed by field crews and contractors wherever they were working. Today, standardized metadata tags improve automation when new drawings are loaded into the system. CAD tags are auto-populated as well, improving seamless integration with Urban Utilities' other business applications, reducing load times, and ensuring drawings are easily searchable.

Field teams and contractors can now complete work using the most recent version of engineering documents and drawings from wherever they're accessing the system. This improves the safety of work crews while continuing to build value into Urban Utilities' asset data.
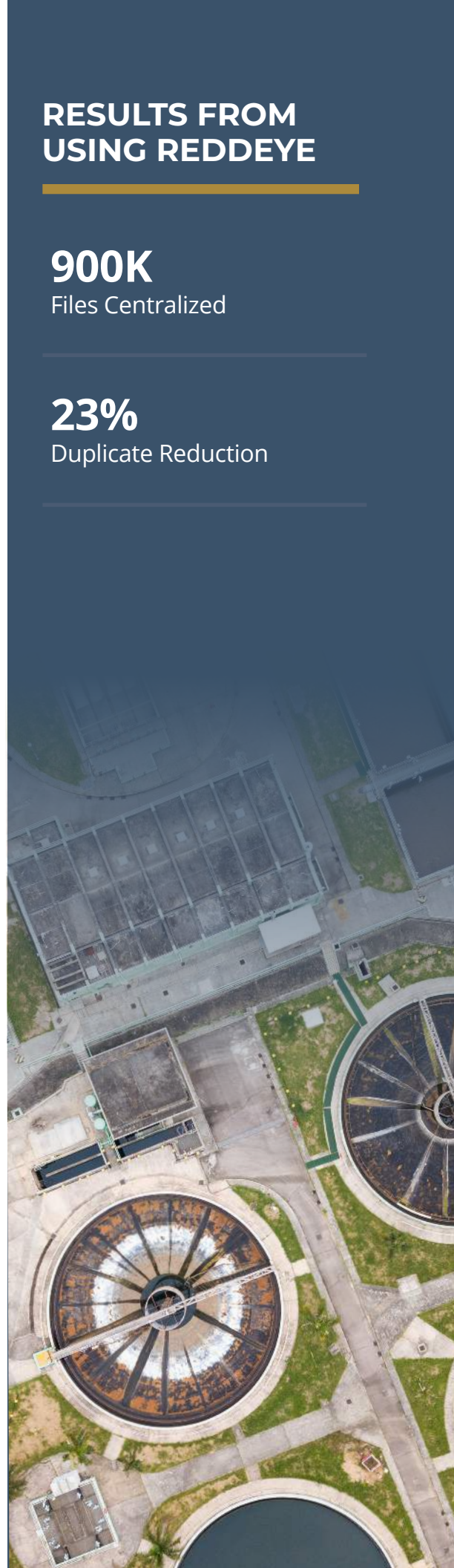
## RESULTS FROM USING REDDEYE

### 900K
Files Centralized

### 23%
Duplicate Reduction

# CAPABILITY REVIEW - ENGINEERING & DRAFTING

| CORE CAPABILITY | REDEYE ASSESSMENT | SCORE | SHAREPOINT ASSESSMENT | SCORE |
|---|---|---|---|---|
| The ability to have reliable audit trails for changes made to engineering information (i.e., who changed what, when was it changed, why was it changed, and what project is associated). | RedEye supports this fully with a visual timeline of every change and revision progression. | 5 | Only available at a metadata level, not in combination with revision progression. | 2 |
| The ability for workflows that use a defined process to automatically track approvals and change progressions on documents to notify all involved stakeholders. | Full support for complex and configurable engineering review and approval workflows. | 5 | The standard workflow is limited. | 1 |
| Assigning engineering information to one or more projects (i.e., concurrent engineering) and preventing revision updates from overwriting previous information. | Full support for management and linking of concurrent project work. | 5 | Not available. | 0 |
| The ability to set up, manage, and archive multiple engineering projects and all their contents. | Fully Supported. | 5 | No automated project archiving is possible. | 0 |
| The ability to distinguish between the "Master As-Built" documents and other documents currently in process. | Available out of the box. | 5 | Not available. | 0 |
| The ability of the system to control the revisions applied to a document automatically. | Available out of the box. | 5 | Not available. SharePoint only supports versions. | 0 |
| The ability to manage document templates (e.g., CAD drawing templates) that are automatically populated when a new drawing is created. | Available out of the box. | 5 | Not available. | 0 |

# CAPABILITY REVIEW - ENGINEERING & DRAFTING

| CORE CAPABILITY | REDEYE ASSESSMENT | SCORE | SHAREPOINT ASSESSMENT | SCORE |
|---|---|---|---|---|
| **The ability to automatically assign a drawing number to a new drawing.** | Available out of the box. | **5** | Not available. | **0** |
| **The ability to automatically synchronize information from the title block with the system when drawings are loaded and/or updated in the system.** | Available out of the box. | **5** | Not available. | **0** |
| **The ability to generate reports such as Master Lists, Documents Under Revision, etc.** | Standard reports are available, but also integrations for Power BI and other BI systems. | **5** | DMS offers many capabilities to export information. | **5** |
| **The ability to integrate the system with the Asset Management System (e.g., SAP, Maximo) so that documents are visible when people search for equipment within Asset Management Systems.** | Redeye offers a wide array of integrations such as asset management, GIS, Ehs, and many other systems. | **5** | Not available. | **0** |
| **Total Score** | | **55/55** | | **8/55** |

# HOW WESTSIDE CORPORATION SLASHED COSTS AND STREAMLINED OPERATIONS

WestSide Corporation is an oil and gas production company in Australia and New Zealand. Four years ago, before using RedEye, WestSide was trying to manage over 220,000 engineering documents, with multiple copies and revisions stored in various locations. WestSide's designs were provided by external engineering design contractors, different drawing numbers were used, and drawing lists and registers were not complete or up to date, which complicated its drawing management processes. Due to the remote location of WestSide's assets, travel times to and from each site took many hours, and onsite staff were not always confident they were accessing the latest drawings. Many people constantly copied, marked up, and changed drawings.

Using RedEye, WestSide now has a single source of truth for all of its asset engineering drawings manuals and documentation, such as procedures, design, and datasheets. WestSide's teams have fast access to the system anywhere on site, from a mobile device or the office. They also benefit from trusted revision control, version history, and review and approval tools.

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"We chose RedEye because of its clean-up ability as we had such a disarray of information. That was the key reason for us because it gave us those tools to help go back and clean up our documents."

– Rob Trout, Digital Transformation Leader, WestSide
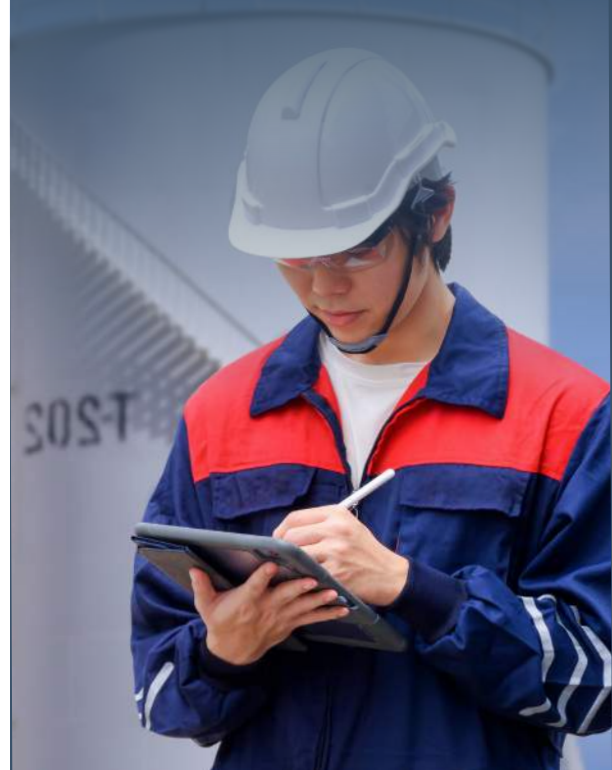
## RESULTS FROM USING REDDEYE

**16%**
Reduced Costs

**0**
Rework

**12.5%**
Saved Productivity Time

# BUSINESS BENEFITS OF REDEYE — PURPOSE-BUILT FOR EDM

**Scalable Solution** – RedEye eliminates the need for on-prem infrastructure with scalability that can grow with your business.

**Collaborative Engineering** – Collaborate in real-time with unlimited users, annotations, and markups, facilitating accuracy and efficiency. Utilize concurrent engineering for enhanced productivity and simultaneous collaboration.

**Optimized Operations** – Eliminate time wasted on unproductive tasks such as finding up-to-date drawings. Enhance handover drawing quality with automation, identifying missing XREFs, PlotStyles, or Fonts, and ensuring all crucial details are included.

**Minimize Risk** – Protect personnel safety and comply with bodies such as OSHA, NERC, and FERC by leveraging accurate engineering records, streamlining processes, and reinforcing protocols and operational standards.

**Cut Costs** – RedEye's cloud-based solution reduces operational and IT costs, providing long-term savings.

**Simplify Licensing** – Provides unlimited user licensing, enabling seamless collaboration across teams and external contractors without additional costs. Built-in viewer eliminates the need for extra AutoCAD licenses.

## PRICING

Pricing is designed to meet the needs of all organizations big and small. Contact our team to learn more about our plans.

## ARRANGE A FREE DEMONSTRATION

You can also request a free demo. All you need to do is email info@kinsmengroup.com, and one of our sales team will be in touch with you to arrange a time.

## THE ACCRUENT + KINSMEN GROUP PARTNERSHIP

Accruent and Kinsmen Group have a long history of collaboration in engineering document management technology. Our partnership expedites implementation and migration to help you reach new heights of information access, collaboration, and compliance excellence.

KINSMENGROUP.COM
1-888-208-8547
SALES@KINSMENGROUP.COM

KG/Accruent-RedEye 2406A