



Asset Integrity Software

by IQ Integrity

Improving reliability, safety, and
cost efficiency with effective
integrity management

ABOUT ONE.

Asset Integrity Management...

ONE provides every client a single source of truth for all their assets. By centralising asset registers, risk assessments, workpacks, inspection tasks and anomalies, ONE keeps information accurate, accessible, and up to date. It provides full visibility and confidence in asset performance at all times.

Engineers get the data they need to act with confidence, every day. With standardised, centralised information at their fingertips, teams can make faster, safer, and more consistent decisions – without relying on spreadsheets or legacy systems.

Monitor and understand trends, issues and inefficiencies to generate value across your organisation's assets.

Developed by IQ Integrity and shaped by global industry experts and integrity engineers, ONE sets the new standard in Asset Integrity Management software.

Past, present and future efficiency...



Trusted by leading energy operators for asset integrity, both offshore and onshore.

CORE MODULES.

01 Anomaly / Defect Management

Track anomalies from initial discovery, through assessment and risk ranking to corrective actions and final close out, with complete history.

02 Component Asset Register

Dynamically adjusts to suit your evolving asset register requirements. Record any information for any component, at a level that suits your organisation.

03 Risk Based Assessment (RBA)

Use qualitative or quantitative, industry-standard methods (such as API 580 / 581) to generate Risk Based Assessments, reducing unnecessary inspections, cutting costs, and optimising safety across all assets and components.

04 Workpacks and Inspections

Manage tasks efficiently, enabling teams to access instructions, record progress, and complete inspections for safer, compliant operations. Online or offline, including with mobile devices.

05 Performance Standards

Define, monitor, and maintain performance standards while managing barriers effectively, ensuring assets operate safely, reliably, and within compliance tolerances across all operations.

06 Reporting and KPIs

Dashboards deliver configurable, real-time insights into key metrics, KPIs, and trends, visualising integrity, inspection, and maintenance performance for clearer, data-driven asset decisions.

KEY BENEFITS.

ONE sets the new standard for Asset Integrity Management Software.



Efficiency

Centralising asset data, streamlining workflows and improving decision-making processes.



Accountability

Full transparency on all user generated actions and data changes throughout the application.



Cost Reduction

Reduces inspection, maintenance and operational time while maximising asset value.

ANOMALY / DEFECT.

“ The implementation of ONE has significantly increased the visibility and control of anomalies, therefore reducing the overall risk profile of our assets.

– Kevin Young, Asset Integrity Team Leader

In 2009, we asked the North Sea integrity management community for their pain points. These centred on managing multiple repair registers, typically spreadsheets, and needing to remove historic problems. We applied our software engineering knowledge and created the first standardised anomaly management system.

Defects includes our industry standard anomaly creation wizard to ensure the information you need is captured from the initial reporting of the issue.

Supporting documents, images and video clips can be stored against each anomaly. Users add recommendations, assessments and review comments directly to each anomaly record.

All changes to the anomaly details, status or completion timeline, require a justification comment, which is stored in each anomaly's individual history log.

Providing a fully transparent and comprehensive history log helps ONE users manage anomalies appropriately and to a safe conclusion.

This also assists during regulatory and compliance audits. A range of remediation and mitigation task types may be added to each anomaly, to detail the work which the assessment driven outcome requires.

An extensive suite of live and historic anomaly reports have been developed based on client users requests - to visually represent the status, parameters and monthly trends of all anomaly data types.

This reduces the time to collate key management information, in some cases from days and hours, to a single click of a button. The on-line centralised cloud platform streamlines workflow and results in greater operational efficiency.

Our clients tell us that there is no other anomaly management system for energy operators offering a fraction of the benefits that ONE provides for them.

ONE has completely revolutionised our clients anomaly management: reverting back to spreadsheets is not an option.

Additional Features

- Use on any asset type: Offshore, Onshore, Subsea, Pipelines & Cables
- Use with any equipment types, including Structural, Mechanical, Pressure Containment, Electrical and Pipeline
- Industry standard workflows and customisable actions
- Wizard based anomaly creation workflow
- Single solution for all anomaly types including Fabric Maintenance, Engineering replacements and repairs, Temporary Repairs
- Stores ongoing assessments, recommendations and comments
- Capture authoritative reviews and sign offs
- Calculate and record risk and/or priority per anomaly
- Integrates with ONE's Component Asset Register
- Over 30 live and historic trend reports
- Import legacy repair register data and documents
- Recognised best practice solution by the UKCS Step Change in Safety organisation
- Exceeds requirements of UK HSE-OSD KP4

Anomaly Details

Quickly link anomalies to components and capture priority, location and damage details.



Testing Information

Record and trend inspection and testing data for each anomaly.



GPS Location

Store precise anomaly and component locations with map and heatmap views.



Media

Centralise all supporting files for each anomaly in one place.



Integrity Recommendations

Track integrity recommendations from discovery through to close-out.



Tasks

Create and manage tasks and sub-tasks with clear ownership and deadlines.



Notifications

Automatically keep relevant users informed of anomaly progress.



Assessment & Review

Enable onshore and offshore teams to review and update anomalies at any time.



Completion

Track task completion clearly throughout the anomaly lifecycle.



Close Out

Formally close anomalies with full search and traceability.



Module Benefits

- Fast implementation and rapid efficiency improvement
- Minimal training required, standard users require less than an hour on average
- Central source of anomaly management, analysis and reporting
- Drives standardised anomaly data input from discovery to closeout
- Visibility of all anomalies on multiple assets in a single window
- Maintains a live Temporary Repair register
- Improved risk perception and visibility
- View open & closed records by dates, system, location and a range of search parameters
- Apply remedial and mitigation task types
- Track & trace progress by task type, assigned action party and due dates
- Knowledge transparency benefits from day one
- Readily adopted, accepted and relied upon by personnel at all levels and job roles
- Large reduction in administration time and upkeep of anomaly information
- Cost reduction by using up to date information for informed decisions

COMPONENT ASSET REGISTER.

ONE's Component Asset Register is the Integrity Backbone.

Each asset represents a physical site, each with its own independent Component Asset Register, providing a structured and reliable record for all equipment and components.

At the heart of the module is a system of quickly configurable attributes and equipment templates, defined by each client. This allows large or small changes to be implemented instantly, without delays or bespoke software development.

Standard templates and terminology ensure common references and consistent reporting across the entire organisation, giving teams clarity and reducing potential errors.

This module is a highly functional replacement for the spreadsheets often used by integrity engineers onshore and offshore. It also replaces older, complex systems that lack the flexibility and ease of operation built into ONE.

ONE's Component Asset Register focuses on enabling key functions first, reducing operational complexity, and simplifying day-to-day asset integrity activities for engineering teams.

The Component Register seamlessly integrates with Maintenance Management Systems (MMS), such as SAP and IBM Maximo, at either Functional Location or Work Order level. This ensures accurate data flow between integrity and maintenance operations, supporting timely maintenance, compliance, and lifecycle planning.

When delivered, the Component Asset Register is fully implemented and configured to meet your company's requirements at every level, ensuring maximum efficiency, reliability, and control across all assets.



ONE gives us a simple but robust means of managing data, with a single repository accessible for all of our Assets. The efficiencies created with ONE, remove those inflexibilities and the pitfalls normally associated with a spreadsheet.

Importantly, the ONE system offers a cost effective tool and its structure enables the user to build their maintenance and integrity platform and develop further improvements by integrating other critical parts of the business to represent a clear image of plant and equipment health and risk. The opportunities are endless ...

— Craig Reid, Mechanical Engineering Technical Authority,
Apache North Sea

COMPONENT ASSET REGISTER

Additional Features

- Standard solution for all component registers
- Use on any asset type: Offshore, Onshore, Subsea, Pipelines & Cables
- Use with any equipment types, including Structural, Mechanical, Pressure Containment, Electrical and Pipeline
- Easily customisable content structure and terminology
- Store fixed and updateable attribute details for any equipment type
- Links to anomalies on each component
- Add one-off or repeating maintenance, inspection and other task types
- GPS references can be overlaid on built-in map views or integrated with 3D digital twin models for enhanced spatial asset visualisation
- Condition monitoring storage attributes
- Associate components to Systems, Performance Standards, fluid types and all other asset definitions
- Links to Risk Based Assessment module
- Import components and all data from external sources
- Integrated industry-standard formulas deliver precise remnant life calculations for all critical equipment types

Module Benefits

- Single point of reference for all components and related activity on all sites
- Live bi-directional link to anomaly records per component and sub components
- Intuitive and user-friendly, with no complex interface to navigate
- Reporting outputs by component and equipment type
- Automatically include component data within anomaly records
- Helps with maintaining production availability
- Enables a 'build as you need' approach, reducing implementation time
- Operating status history and dynamic dashboards
- Maintenance shift handover outputs and knowledge base
- Central P&ID register per site, linked to components
- Search for components by any combination of attribute values or ranges

Case Study

FABRIC MAINTENANCE.

Implementing ONE replaced spreadsheet-based fabric maintenance with a fully integrated workflow – improving visibility, execution, and reporting across offshore operations.

Proven Results with ONE

80% **Reduced**
Average cost per anomaly
£4,778 → £920

36% **Improved**
Inspection reporting efficiency

13× **Increased**
Anomaly close-out rate
53 (previous workflow) → 724 (with ONE)

— Case Study reported by UK Client

Case Study - Fabric Maintenance

HOW ONE IMPROVES THE WORKFLOW

A Comparative Study

Comparing a standard fabric maintenance workflow based on spreadsheets and documentation with an enhanced workflow supported by the ONE software system.



The application of IQ Integrity's ONE and development of supporting processes has been fundamental in realising significant efficiency increases and cost savings, during Inspection reporting and Fabric Maintenance execution.

Our company Inspection and FM procedures and process improvements have been coded and embedded into ONE, meaning every anomaly is reported, reviewed and assessed against our standards consistently across our facility base.

With pro-active optimised workflow, we carry out an appropriate and timely FM mitigation in line with our Live line blast intervention period. This generally enables us to push out the next inspection to the following RBI cycle and reduces or removes the requirement to monitor less than the RBI interval.

Following that inspection we, if required, install a DLR/Temporary repair or further FM certified until cessation of production. Therefore we reduce our known risk and requirement to repeatedly inspect without mitigating the issue, supported by the knowledge management in our ONE system.

— Case Study reported by UK Client

ONE Benefits

- Efficiency and productivity increase
- Cost reduction
- Providing a full audit trail, data consistency and control.
- Rationalising data repositories
- Clear alignment of Anomaly, Defined Life Repair and FM task tracking.
- Offshore execution and onshore preparation.
- Client 'owned' system and data – future proofs and de-risks service provider contract changes.

Case Study - Fabric Maintenance

WORKFLOW COMPARISON

The table below highlights the key differences between traditional spreadsheet-based workflows and an integrated approach using ONE. The comparison shows how improved visibility, control, and consistency lead to better execution and decision-making.



Site A (FM/INSP - Single contractor) ONE – Integrated Workflow



Site B (FM/INSP - Two contractor model) Spreadsheet-Based Workflow

Single integrated system	Multiple disconnected systems
Minimised data handovers	Frequent manual data handovers
Single source of inspection data	Inspection data spread across files and tools
Inspection data used directly to execute fabric maintenance	Inspection data manually interpreted to plan fabric maintenance
Scope captured through structured inspection input and engineering review	Scope defined through multiple inputs and manual interpretation
Direct link between executed maintenance and RBI reassessment	No direct link between maintenance execution and RBI reassessment
KPIs aligned to lifecycle risk reduction	KPIs focused on task completion and reporting
Clear visibility of integrity threats and risk profile	Limited visibility of integrity threats and risk profile
Clear ownership of offshore scope and activities	Fragmented ownership across multiple activity owners
Integrated planning and decision-making process	Disconnected planning and decision-making processes

— Case Study reported by UK Client

WORKPACKS AND INSPECTIONS.

ONE drives efficiency in inspections, verification, and data collection, reducing manual effort and ensuring information is accurate and reliable across all assets.

Transform inspection planning with electronic Workpacks that streamline task scheduling, reduce administrative overhead, and cut operational costs compared to traditional spreadsheet-based methods.

Workpacks are generated automatically, pulling together inspection tasks and results in a structured format that standardises workflows for all equipment types.

Predefined templates enforce consistent terminology and data capture, helping teams maintain accuracy and uniformity across different locations and disciplines.

Tasks can be organised by inspection type, equipment category, system discipline, location, or campaign schedule, adapting seamlessly to your organisation's existing processes.

Monitor the status of individual tasks or entire Workpacks at any time, enabling managers and engineers to stay informed and proactive.

Anomalies can be raised directly within the workflow. Key component and inspection data are automatically linked, saving time and removing duplicate entry.

Interactive dashboards provide visual and tabular reporting, offering instant insight into inspections, results and anomalies at any level of detail.

By digitising, standardising, and automating inspections, ONE maximises efficiency, ensures regulatory compliance, and delivers reliable, high quality asset integrity data.

Module Benefits

- Enables offline and remote location use
- Reduce errors from re-keying data
- Dynamic update of task completion
- Send and Receive live information in wifi-data zones



Case Study - Inspection Management

INTEGRITY LED & PERFORMANCE DRIVEN

01 Inspection Reporting

Systemised Inspection and anomaly reporting has realised increased efficiency levels, whilst also increasing reporting standards and auditability.

Total inspection reports

Inspection man-days available

Cost per inspection report



Site A

ONE — Integrated Workflow

732

696

£830



Site B

Not supported by ONE

868

1312

£1,011

02 System – Integrity Threats

All Anomalies are risk assessed with tasks and timelines identified for mitigation.

Within the ONE system we have live visibility of anomalies by System and their risk grade, along with the anomaly location area and access requirements for intervention.

This allows us to strategically target focus areas that provide maximum risk reduction. It also gives increased visibility and understanding when shaping business planning assumptions for future integrity presence on our facilities.

03 Concise Reporting & Anomaly Progression

Contractor monthly/annual KPI's are driven around targeting and execution against the biggest risks.

Our live and historic reporting options visualise anomaly reduction progress and efficiency.

The application of ONE and development of supporting processes has been fundamental in realising significant efficiency increases and cost savings, during Inspection reporting and Fabric Maintenance execution.

— Case Study reported by UK Client

MOBILE WORKFORCE.

Perform maintenance and inspections anywhere with our mobile solution – online or offline. Capture data in the field, sync automatically, and keep workflows connected for faster, more accurate results.

Inspection and maintenance tasks can now be fully executed on handheld devices and tablets, enabling engineers to complete their work wherever the assets are located.

Our mobile solution works seamlessly both online and offline. Field teams can capture data without connectivity, with all results syncing automatically when a connection is restored.

Operate on a wide range of devices, from standard tablets to rugged intrinsically safe equipment, allowing you to choose hardware that fits your operational environment.

Mobile inspections allow teams to record findings directly in the field, add videos, geotagged photographs, annotations, and signatures, reducing manual data entry and improving information accuracy.

Predefined, configurable inspection templates ensure consistency across tasks, asset types, and locations, helping teams capture high-quality, standardised data every time.

Critical defects or irregularities can be immediately escalated into anomalies or work orders, keeping maintenance and integrity workflows connected and reducing response times.

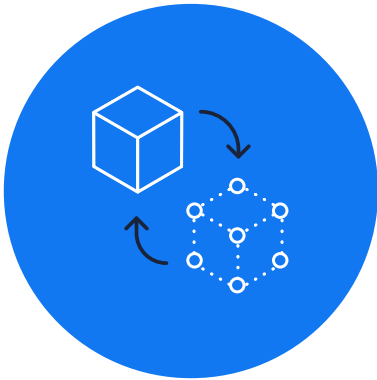
All mobile inspection data syncs with central systems to provide dashboards and reports, offering managers instant insight into progress, asset condition, and compliance status.

By combining mobile accessibility with automated data handling, teams save time, reduce errors, and maintain auditable records, enhancing operational efficiency and regulatory compliance.

With reliable, field-collected data available in realtime, organisations can make faster, better-informed decisions about inspections, maintenance planning, and overall asset management.



VISUALISATION.



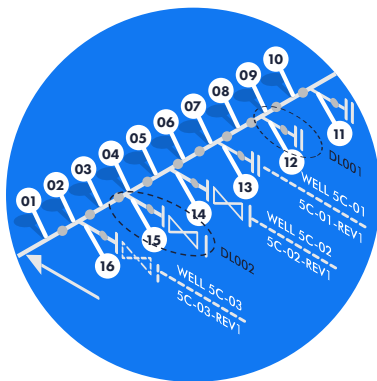
Digital Twin

Our digital twin solution connects directly to your preferred point cloud platform, combining detailed spatial models with realtime and historic data. This enables scenario simulation, optimised maintenance planning, and improved operational efficiency, while enhancing safety and maximising asset lifecycle value.



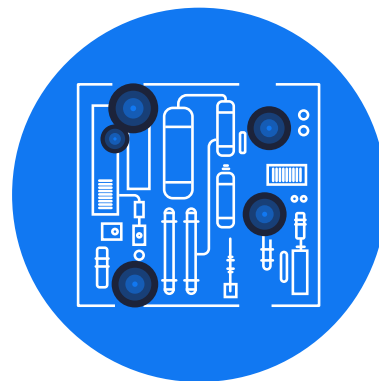
Geospatial Mapping

All Components and Anomalies within ONE can be assigned multiple GPS coordinates, enabling the display of positional information including anomaly heatmaps and other data.



Markup P&ID/ISO Diagrams

ONE has a central repository for P&ID and ISO's enabling clients to markup and highlight diagrams electronically in the browser window. This removes the need to print, markup, scan and upload information or, to attach it to a spreadsheet or within another document. Marked up diagrams may be saved within the anomaly, component or inspection task being worked on.



Plot Plans / Heat Maps

Overlaying anomaly and component information on Plot Plans can help visualise and highlight key problems on equipment, locations and systems. This can assist with risk assessments, campaign planning and 'the big picture' to make smarter decisions with joined up data.

RISK BASED ASSESSMENT.

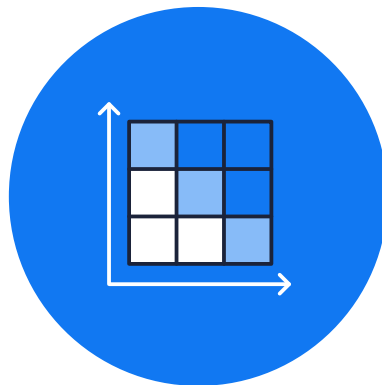
Manage RBAs in a way that is unique to your workflow. ONE's flexible RBA module enables a mix of qualitative and quantitative methods.

RBA Module enables organisations to apply their own methodologies, combining expert judgment with data-driven calculations to generate inspection frequencies. Decisions are precise, defensible, and grounded in both experience and analytics.

Risk is calculated using worst-case scenarios and internal/external matrices, referencing integrity confidence values. Calculations and workflows follow API 580/581 and other recognised standards, ensuring reliability, regulatory alignment, and defensible results.

Applicable to any asset type including pressure systems, structural, and mechanical, RBA delivers a consistent, unified approach across all critical infrastructure.

Each components equipment type is linked to configurable threat templates that mirror organisational processes. Threats can be ranked by Susceptibility and Consequence, with mitigation measures captured for traceability and audit compliance.



Inspection results, operational data, and maintenance history feed directly into the RBA. Allowing high-risk assets to be prioritised, inspection planning is optimised, and outcomes can be linked to CMMS systems for seamless work order management.

Supporting documents, images, and historical assessments are stored for a complete audit trail. Feedback loops refine risk models over time, reducing unnecessary inspections, improving maintenance strategies, and enabling proactive, informed decision-making.

Features

- Entire RBA analysis in a single wizard driven system
- Uses your risk and inspection matrices and gradings
- Uses your standard Probability, Consequence and Confidence levels
- Threat factor templates for any equipment type
- Link to condition state data on each component
- Outputs risk and frequency for internal and external inspections
- Semi-quantitative assessment possible
- Supersede static RBAs, enabling live RBA that is updated as new information is available from site
- Upload documents and images to each RBA

Module Benefits

- Simple and rapid risk assessment recording
- Easy to learn and use
- Works with any integrity model
- Minimal data setup required

PROCESS SAFETY BARRIERS.

Barrier Management ensures that every critical safety control is identified and maintained, protecting people, assets, and the environment from major risks.

Multiple layers of protection – physical systems, operational procedures, and trained personnel – work together to prevent incidents and minimise consequences if a failure occurs.

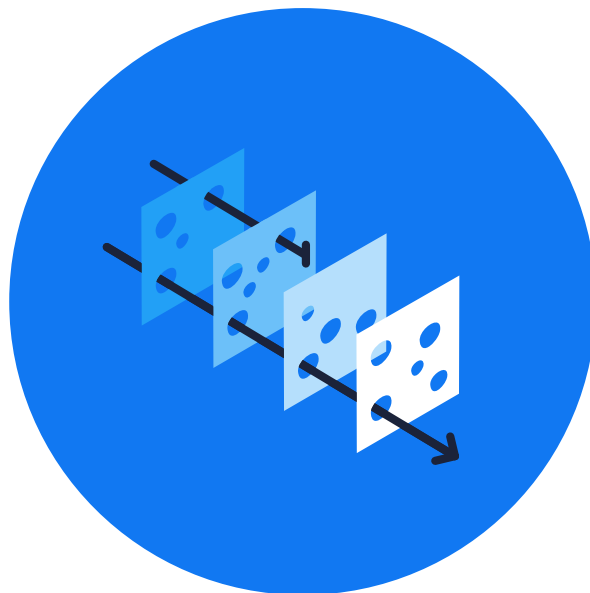
Each barrier is defined by clear performance standards. Teams know exactly how a system should operate, making it easy to spot when intervention is needed.

Barrier health is tracked continuously through inspections, operational data, and asset condition information. Weak or compromised controls are highlighted immediately for proactive action.

Combine operational metrics with barrier status to highlight weaknesses, defects, or gaps in safety controls. This supports rapid decision-making and proactive risk mitigation.

Barrier Management can be linked directly to risk assessments, inspections, and maintenance planning. High-risk components are prioritised, ensuring resources are focused where they make the greatest impact.

With transparent reporting and audit-ready records, organisations gain confidence in their operational safety. Proactive monitoring reduces risk, ensures regulatory compliance, and supports informed decision-making.



PERFORMANCE STANDARDS.

Complete Performance Standards module with Verification, Compliance and Change Management workflows.

Specifying performance expectations for components, infrastructure, roles or duties, is what makes Performance Standards a **key function** within an organisation.

Performance Standards are **comprehensively managed** in ONE as parent-child tree structures to any level, with **total control** of content and details.

Performance Standards may be **associated to any component or process**, with verification activities to monitor compliance. A **change management** module provides **complete transparency** over suggested changes to performance standards and final outcomes.

Features

- Per site listing of Performance Standards and Associated Assurance Routines
- Allocate Performance Standards to Components & Anomalies
- Report on quantity of anomalies per Performance Standard
- Live performance standard documents, all text sections and print version
- Interface with Verification Management Module
- Change management Request & Review process
- Parent-Child-Grandchild hierarchy with unlimited levels

Module Benefits

- Single source working version of Performance Standards
- Promotes SECE compliance
- Exports for document management systems
- View available to all authorised users, edit restricted to Admins
- Basis for live ONE Verification system and action tracking

“ Apache have added a performance standard aspect which allows real-time updates to performance standards with TA and Tech Safety sign off...

The result is that the changes (agreed and proposed) to performance standards can be viewed in 'real-time' and Apache have a record of all changes with the associated governance.

– Phil Rothnie, Verification Engineer,
Apache North Sea Limited.

REPORTING / KPIs.

What is the cost of making decisions and planning based on out of date information?

Dynamic dashboards provide live and historical views of asset performance, inspections, and operational trends.

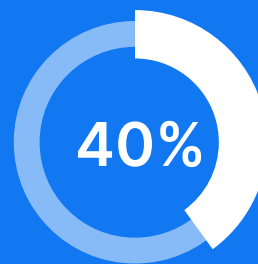
Visualise KPIs, inspection status, and asset performance in realtime. Users can tailor layouts and metrics to focus on the information most relevant to their role, from field engineers to executives.

Data can be collated from inspections, anomalies, risk assessments, and maintenance activities, providing a unified view of operational performance.

Reports can be visual, tabular, or exportable, making it easy to share insights across teams or with stakeholders.

Built-in audit trails and documentation ensure outputs are compliant and ready for regulatory or internal review.

Reporting Time Reduction



“ ONE’s transparency and action tracking are total. The quality of information has increased significantly, cutting administration time by around 40% and providing an audit trail that makes compliance easier.

— Integrity Engineer, Offshore Operations

KEY REPORTING INCLUDES



EXTERNAL API INTEGRATIONS.



Integration Gateway for External Systems

ONE explicitly supports standard APIs, enabling connections with a wide range of third-party technologies beyond built-in integrations.

It supports connectivity via REST APIs, allowing secure interaction with third-party services and cloud systems.



Enterprise System Integration

Easily configurable mappings and event driven triggers, allows for easy linking with enterprise systems such as SAP, IBM Maximo and Oracle.

This enables bidirectional data exchange for Work Orders, Planned and Preventative Maintenance and status updates.



Data Warehouse

ONE has its own data warehouse, consolidating information from multiple systems, inspections, maintenance, risk assessments, and operational data, into a single, reliable source. This eliminates silos and ensures decisions are based on consistent, accurate data.

Linked to business intelligence systems like Power BI, the data warehouse allows clients to produce their own interactive dashboards, visualisations, and KPIs. Teams can explore trends, drill down into anomalies, and gain realtime insights for proactive decision making.



Digital Twin

In addition to natively supporting Navisworks 3D models, ONE can integrate with external digital twin / 3D point cloud systems to provide further visualisation of data. Clients use this for visualising defect locations and task planning.



Sensor Data

ONE can also connect with live and historic data feeds such as SCADA and IOT. User configurable thresholds for alarms, performance indicators and exception handling.



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