

# PS Asset Integrity Manager

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## #1 Corrosion Monitoring Application for Oil, Gas, and Petrochemical Industries

PS Asset Integrity Manager is an industry leading software for safety critical equipment, corrosion monitoring, fixed interval and risk-based inspection planning and scheduling, and remaining life calculation. PS Asset Integrity Manager incorporates recent advances in technology for optimizing inspection time and costs through real time analysis and bidirectional transfer of data with data loggers, spreadsheets, 2D & 3D Computer Aided Design (CAD) software, and ERP systems.

Asset integrity management is important to the operation of process facilities. PS Asset Integrity Manager combines risk-based inspection with an inspection data management system (IDMS), which is an effective way to manage the inspection and reliability program of the process plant. This results in the reduction of risk from loss of containment and greater potential for profitability through increased asset availability. Implementing PS Asset Integrity Manager creates a simpler and quicker inspection and condition monitoring method bringing immediate and invaluable benefits to the process plant and organization.

PS Asset Integrity Manager is enhanced using Siemens Energy product development methodology which includes secure design practices and quality assurance processes.

## Our Expertise

Backed by over 30 years of Asset Integrity Management technology and services expertise, PS Asset Integrity Manager is the solution of choice for efficient and effective management of critical equipment.

- **Our legacy:** recognized as the leading solution provider for inspection data management, with more than 1,000 users and 100 installations worldwide.
- **Our people:** API and ASME industry contributing members and subject matter experts in mechanical integrity coupled with the product development and software delivery team, provide a software program incorporating industry standards and best practices along with value added services.
- **Proven methodologies:** Siemens Energy can help define asset integrity management philosophies, IDMS process, Risk-Based Inspection (RBI) programs and implement best practices within your organization.



## Our Value, Our Customer

- **PS Asset Integrity Manager SaaS:** Enables customers quick and secure scale usage across their enterprise and provides faster access to software enhancements. Cloud delivery may increase the return on investment for PS Asset Integrity Manager and associated integrity management services through productivity gains and optimized total cost of ownership.

- **Inspection Data & Mobility:** PS Asset Integrity Manager provides a single repository of historical data and documentation for the life of the equipment, including UT/RT thickness measurements and results of all API inspections.

By using the data logger and ERP systems interface module, data can be efficiently captured and transferred bi-directionally to PS Asset Integrity Manager. This data can also be accessed in the plant using PS Asset Integrity Manager installed on a surface pro tablet with an intrinsically safe case.

- **Remaining life prediction:** PS Asset Integrity Manager provides visibility on past due inspections, equipment with high corrosion rates or short remaining life. The software also analyzes thickness data to predict corrosion rates, maximum allowable operating pressures, and remaining life. Inspections can be accordingly planned based on fixed intervals, equipment condition, or risk level.

## Core Capabilities

- **PS Asset Integrity Manager RBI Module** for risk-based inspection in accordance with industry best practices and API Recommended Practice (RP) 580 and API RP 581.
- **PS Asset Integrity Manager IOW** Module for integrity operating windows management in accordance with API RP 584.
- **Corrosion monitoring** stores equipment, component, and condition monitoring location (CML) design information.
- **Inspection and testing scheduling** allow users to schedule assets' inspection and testing activities.

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- **Inspection Planning** allows users to create inspection plans, including checklists, and build inspection packages for efficient activities execution.
- **Category-based inspection** for relief valves balances the frequency and acceptable risk depending on the testing and inspection results.
- **ERP connectivity** (e.g., SAP, Maximo, and other CMMS) allow scheduled activities to be sent electronically, synchronizing equipment information between PS Asset Integrity Manager and SAP or any ERP asset module.
- **AutoCAD or MicroStation Dynamic Drawings** link displays CML data with the current information from PS Asset Integrity Manager.
- **Minimum Thickness (T-min) & Maximum Allowable Operating Pressure (MAOP) calculator:** Calculates minimum allowable wall thickness for all pressure components and geometry types based on pressure. The MAOP calculations determine the pressure for a known thickness. All calculations are performed per applicable ASME, ANSI, API, and BS/DIN EN design codes.
- **Localized corrosion on piping:** Determines the effects of localized corrosion on piping to enable preventive cost-effective repairs. Uses ASME B31G logic to calculate MAOP.
- **ASME Flange Rating:** Calculates rating at design temperature per ASME B16.5.
- **Standard, Color Graphic, and MAOP Analysis Reporting** to generate inspection scheduling and planning activities for repair, re-rate or replace decision.
- **Language Options** available for English, French, German, Portuguese, and Spanish.
- **Notification System** allows for automated email notifications to alert a defined distribution list with custom reporting KPIs.
- **Flexible licensing models** tailored to meet customer requirements including modularized licensing, user types, deployment options, and license terms.
- **Data security & integrity** allows for role-based user management of qualification checks, and screen locks to prevent multiple user edits to the same equipment information.
- **Electronic audit trail** enables users to audit changes that affect corrosion rates or inspection planning while tracking what, when, and who made the change.
- **Thickness surveys** allow manual entry of thickness measurements or automatically transfer readings from various data loggers, e.g., DMS Go/Go+, DMS 2, DMS as well as Olympus MG2-DL, 36DL, 37DL, 38DL PLUS®.
- **Analytical settings** provide multiple ways for your plant to analyze data all on one screen.