



DIGITAL SOLUTIONS

SYNERGI™ PLANT

Next generation plant integrity management solution

Leading companies in oil and gas, chemical, and energy industries are constantly searching for better solutions for managing integrity risk for production and processing assets and preventing unknown risk conditions or potentially catastrophic consequences.

Managing asset integrity risk

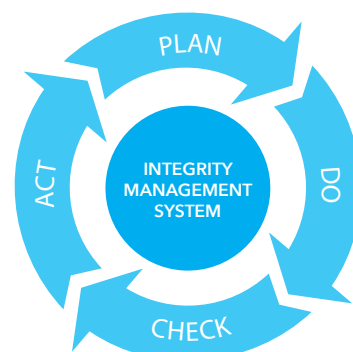
With increasing complexity of production processes, challenges of various asset types, ageing issues, organizational changes and growth, and a trend toward IT outsourcing, it is crucial to find a software solution that meets your needs. Synergi Plant is a software system built on best engineering practices and management experience. We now have a merged solution combining two legacy products. Synergi Plant demonstrates various methodologies in all modules. The three major assessment modules for asset integrity are all available: RBI (risk based inspection), RCM (reliability centred maintenance) and SIL (safety integrity level).

Synergi Plant will support cost saving and loss prevention for inspections and maintenance while improving risk management with an ever-greening loop. It allows you to measure and justify your return on investment for the asset integrity and reliability solution with KPIs in your Synergi Plant dashboard.

Synergi Plant software is user-friendly and web-based, covering all needs within managing integrity risk for your process plant and offshore platform in a logical and structured way.

Synergi Plant offers a complete plan-do-check-act approach for managing asset integrity risk quantitatively or qualitatively and has been used by customers operating upstream and downstream process plants and offshore platforms in more than 20 countries.

The plan-do-check-act engineering cycle - including detailed practices within Synergi Plant - gives you a clear and manageable way to improve asset integrity. It helps people at all levels, including managers, integrity teams and inspection planners, risk analysts, offshore corrosion and damage analysis specialists, inspectors, contractors and IT.



The inspection management module in Synergi Plant has functionalities including project management planning, work scope management, work pack management and anomaly management. This enables integrity managers and planners to easily manage inspection and maintenance plans with technical scope of works and identify technical anomalies from the results. Synergi Plant includes an interface to link with systems such as SAP or Maximo. It follows industry standards and recommended practices such as API 581 3rd edition or DNVGL-RP-G101 for RBI, ISO 14224 for RCM, EXIDA for SIL, ASME and API engineering formula and ISO 55000.

Synergi Plant includes modules for:

- Facility data management
- Various qualitative and quantitative risk based inspection (RBI) modules
- Reliability centred maintenance (RCM)
- Safety integrity level (SIL)
- Critical safety system (CSS)
- Integrity planning and work scope management
- Monitoring data, for recording inspection measurements and online monitoring data in a configurable way
- Inspection job execution, result recording and approval
- Recommendation and anomaly management
- Configuration and data loading tools
- Dashboard
- Integration

For integrity team - industry standards, best practices

- Comprehensive and flexible asset database for centralized data management
- Qualitative and fully quantitative RBI modules for moving to predictive maintenance
- Industry friendly job scheduling and packaging modules for improving efficiency
- Easily change software configuration of the cloud-enabled asset integrity management system
- Formula and rule engines for adapting condition assessment standards and practices
- Configurable workflow, forms and reports for matching organizational processes
- Plan-do-check-act cycle for ensuring integrity management effectiveness

For managers - clear overview

- Integrity status overview on browser or tablet for quick access
- Graphical KPI and summary for easy decision making
- Enterprise level configurable platform for setting up organizational standards
- Manage future asset risk
- Core data and integrated framework for your future plant ecosystem

For inspection engineers and contractors - easy to use

- Easy to learn and use with friendly web interface
- Quick to report inspection results
- Easy to attach documents, photos and drawings
- Connection between inspection recommendations and maintenance work orders
- Useful in work planning, executing and reviewing

For IT department - easy deployment, open integration

- Fully web-based/cross-browser and easy to deploy and maintain on intranet DMZ or virtual servers
- Designed for browser with standard HTML - high performance on different networks
- Centralized database and web application, easy to back up and restore
- Fully configurable, enabling change of system behaviors
- Open system with mature integration components, reducing system integration cost

