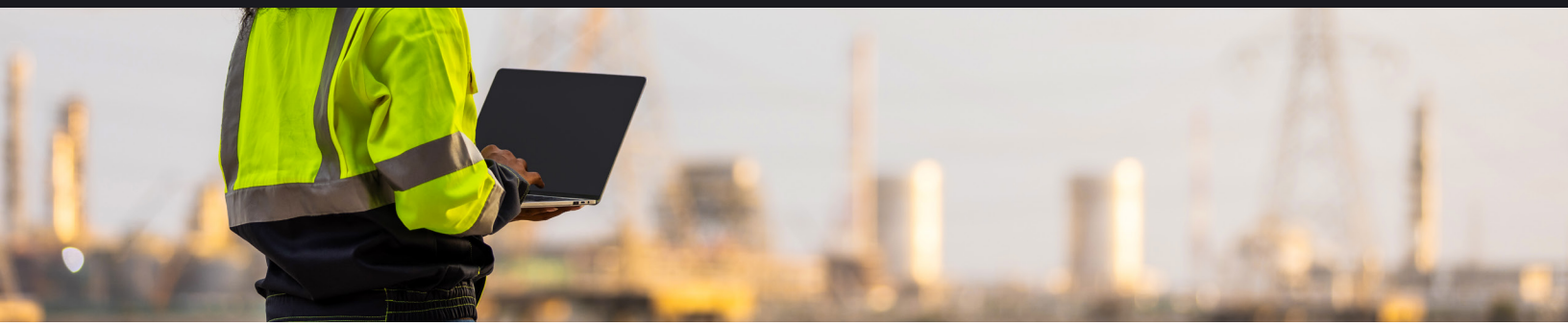
PRODUCT SHEET

Octave InConcert Core Connector for Octave Tempo Operations Management

Accelerate your journey to operational excellence by digitally uniting your asset information and processes!



Across the manufacturing and process industries, plant workers and executives in interconnected departments are struggling with siloed information. This happens when a combination of paper, spreadsheets, word processor documents, PDFs and homegrown databases are used to manage and record critical design and operational information. This data is often scattered across filing cabinets, disconnected computer networks and detached software applications. Unfortunately, this means those responsible for the operation, maintenance and safety of hazardous facilities may not be fully informed during day-to-day tasks and when safety-critical events occur.

Shockingly, dangerous trends and incidents can be missed by personnel due a lack of unified communication; even if they are observed, follow-up human procedures related to anomalies in the process data are often still paper-based. Critical time is wasted trying to find the important information related to a process unit or piece of equipment, which needs to be accessed quickly when resolving an ongoing incident.

To ease these pains, companies have invested in point solutions or manual processes to manage human operations processes and procedures, maintenance work orders, real-time and historical process data, engineering schematics and technical documentation. Despite this digital step in the right direction, the core problem of siloed information is still prevalent.

For example, a plant may have industry leading software like Aspen InfoPlus.21 or the Aveva PI System to monitor real-time and historical data from equipment, sensors, instruments, the DCS and SCADA systems but are still managing engineering schematics, user manuals, technical documentation and human operations processes and procedures using other disparate tools. There are often frustrations when interfacing these related tools, resulting in plant and executive personnel still not being readily aware of safety-critical information. For example, operations personnel may not be able to quickly access engineering design data while reviewing an operations logbook entry about an out-of- specification event.

To meet these challenges and increase collaboration across teams, the Octave InConcert Core (formerly HxGN SDx) Connector for Octave Tempo Operations Management (formerly j5 Operations Management Solutions) is available to users of both solutions. InConcert Core is a central platform for creating a digital twin for operations – that is continually verified and kept up to date – from multiple data sources to improve asset health, reduce maintenance costs and improve overall performance at facilities across a variety of industries. The InConcert Core Connector for Tempo Operations Management brings additional value and interoperability to users of both these Octave solutions, accelerating a company's journey towards operational excellence.



Solution overviews

InConcert Core

A documentation and information management solution that centralizes and unites operations, maintenance, safety, engineering and real-time data. InConcert Core uniquely combines human operations processes and procedures, maintenance work orders, real-time and historical process data, engineering schematics and technical documentation with 3D models and laser scans, enabling a comprehensive digital twin for operations. InConcert Core manages common facility configuration data and documentation; through connectors, it pulls data on-demand from multiple systems of record across the IT/OT landscape (such as data historians, EAM software, PLC and SCADA systems, the CMMS and the DCS). InConcert Core InsightView is a configurable widget-based dashboard that shows relevant user role-based information on “a single pane of glass” allowing workers to quickly view numerous data sources. Enabling data-driven decision-making by providing personnel with comprehensive information related to their roles and tasks.

Tempo Operations Management solutions

A digital platform that enables facilities to document and manage the execution of key industrial processes such as control of work, operator rounds, shift handover and the capture of operator shift logs. Many companies are still using paper, spreadsheets and word processor documents for these safety-critical activities, and an investment in Tempo Operations Management solutions allows companies to reduce operational risk, digitalize operations and meet compliance. Unlike other solutions that require specialized skills and training to configure – resulting in a higher cost of ownership – Tempo Operations Management solutions offer a unique straightforward digitalization approach with its patented spreadsheet-like configuration environment. This distinctive yet familiar low-code/no-code approach enables end users to quickly manage changes that affect the desktop browser and mobile user experience without requiring expensive vendor services. This distinction allows Tempo Operations Management to be a quick time-to-value investment, with high flexibility and a lower total cost of ownership.

The InConcert Core Connector for Tempo Operations Management provides operations and maintenance personnel, engineers, HSE teams and corporate executives with greater visibility while reducing unnecessary value leaks – such as time wasted searching for information – caused by disconnected data. By utilizing this unified digital platform, personnel can quickly find important information related to assets and process units when resolving an ongoing incident using the intuitive InConcert Core Info Map. When time is critical, this allows quick access to Tempo Operations Management records, engineering schematics like P&IDs, user manuals, technical documentation and real-time and historical process data. Personnel from the plant floor to the boardroom can also track the performance of assets efficiently by enabling digital twin visuals inside InConcert Core. For example, problem areas can be quickly viewed using 3D models and laser scans. Using these views, Tempo Operations Management Control of Work records andTempo Operations Management Operations Logbook entries can also be accessed when areas and equipment are selected from the user experience. Overall, the combination of these Octave solutions positively impacts company-wide safety culture, production efficiency and ultimately the bottom line of the balance sheet.

"With Tempo Operations Management , I've finally found the solution I needed to take my business to the next level. There's no other company in my niche doing what we do, the way we do it, and a huge part of that is because of Tempo Operations Management . Our goal is to implement as much of our daily activities as we can into this system. From our inspection records to manufacture alerts and bulletins, we see this as the ultimate solution for tracking our day-to-day activities."

Michael Fry, President and CEO, Deepwater Subsea, LLC

Deepwater Subsea Janus24™ real-time monitoring platform

Case study

Deepwater Subsea focuses on operational support, compliance verification, real-time monitoring, competency development and training. Founded by Michael Fry, who was the supporting Subsea superintendent for Transocean when the Deepwater Horizon tragedy occurred, the company aims to end preventable operational errors in the oil and gas industry.

Deepwater Subsea was using inadequate and time-consuming methods for its operational information management. These included spreadsheets and word processor documents that made it difficult to track and trace data, while also lowering coordination, focus and operational productivity. The auditability and proof of inspection activities is crucial to comply with government regulations that were introduced after the Deepwater Horizon tragedy. Michael Fry said it was a "nightmare" to look for historical inspection information, and key operational data was held on various computer networks and systems of record. Most time was wasted clicking between different screens to find related information. There was also no link to the PI System, which meant that safety-critical operations and real-time data was disconnected. This delayed investigations and any remedial actions.

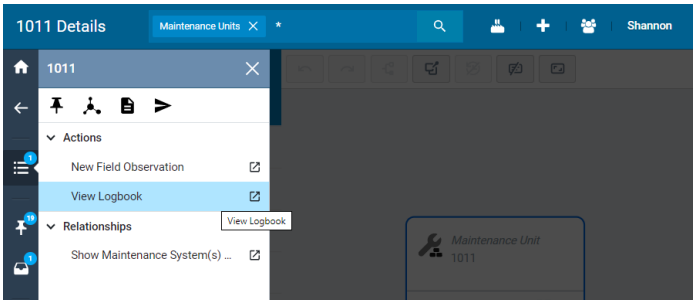
Deepwater Subsea wanted an operational information management solution provider with an established bidirectional interface to the PI System. By utilizing InConcert Core along with Tempo Operations Management and the PI System, Deepwater Subsea has developed the Janus24 real-time monitoring platform. This is an industry-first solution that combines real-time data, compliance verification inspections and asset lifecycle management. It allows oil and gas companies to operate safely and in compliance with regulations. Deepwater Subsea can now effectively analyze and view the operating status of the equipment being monitored in real-time. The link between Octave and PI has allowed Deepwater Subsea to achieve ISO 9001 compliance because inspectors' activities can be monitored from start until completion. Overall, the benefits achieved using InConcert Core and Tempo Operations Management are accelerating Deepwater Subsea on its journey to become the global market leader in real-time monitoring for drilling rigs.

Benefits achieved using InConcert Core and Tempo Operations Management

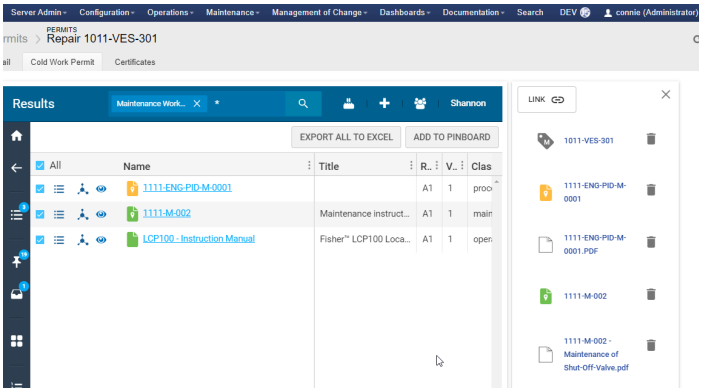
- 95% savings in time retrieving and searching for quality evidence post inspection
- 70% savings in productivity in human operations processes and procedures, documentation and the completion of inspections
- Clear audit of when the inspection was completed and who was involved
- Data silos reduced dramatically and time saved with no more clicking between different screens
- Documentation compliance met and continually updated in line with ever-evolving government regulations
- Knowledge easily transferred from senior to junior employees and new hires



Example use cases



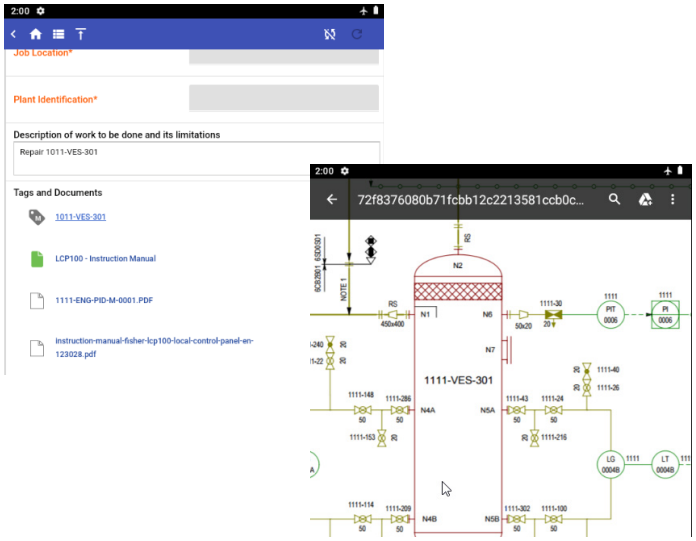
The InConcert Core Connector for Tempo Operations Management is an example of how smartly integrated Octave technologies allow users to achieve “single pane of glass” interoperability.



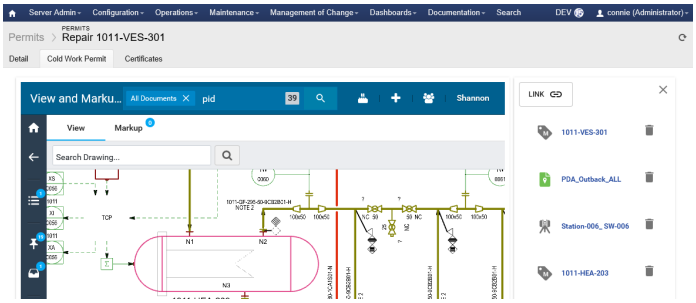
If InConcert Core documents with associated files are linked, copies of the files that are readable on a mobile device – for example, a word processor document or PDF – are stored in the Tempo Operations Management attachment database.



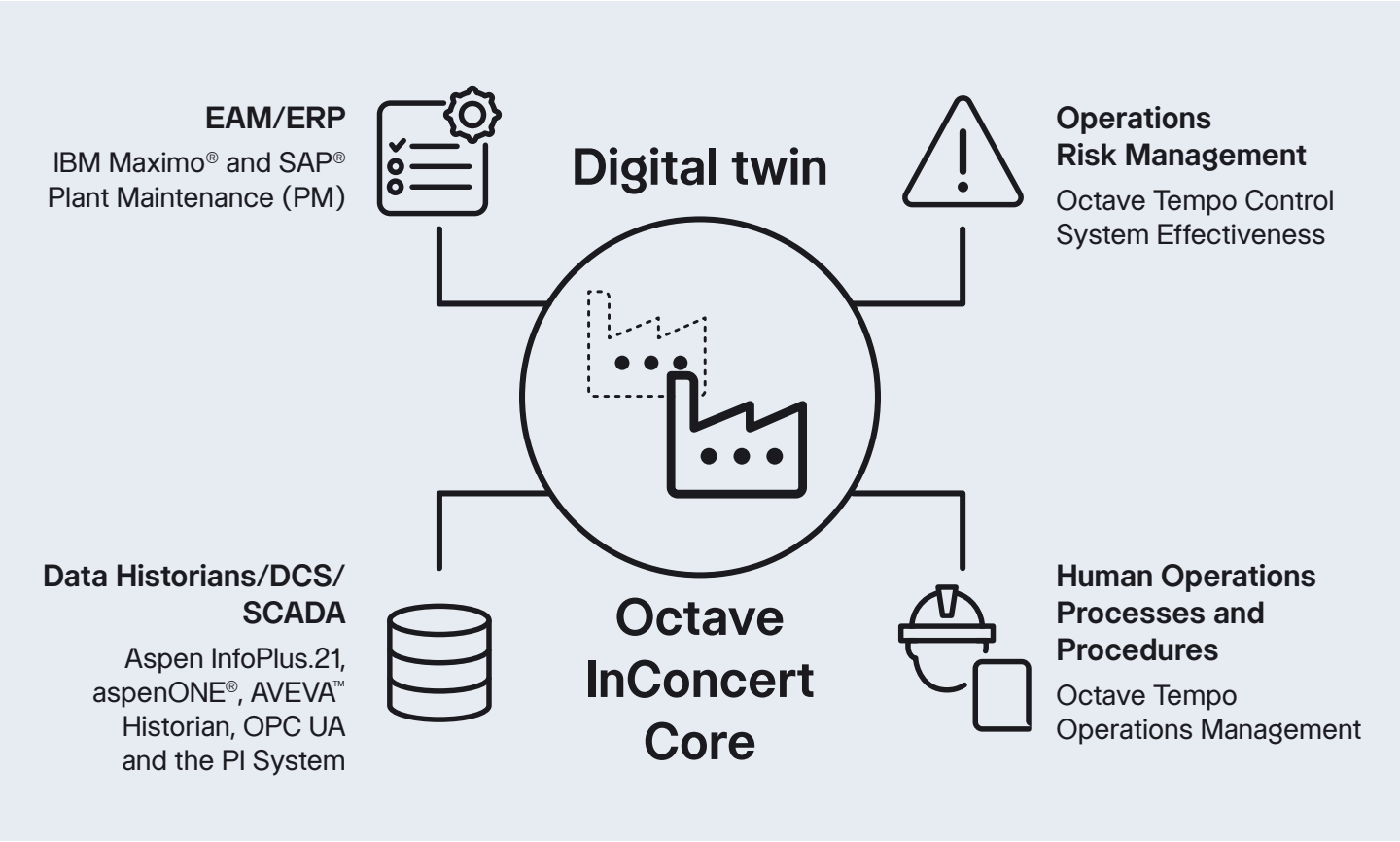
Content from Tempo Operations Management can be easily embedded in InConcert Core. For example, Tempo Operations Management Operations Logbook entries can be connected to a maintenance unit. Tempo Operations Management Control of Work permits can also be related to tags and work packages in InConcert Core. Site walkthroughs using 3D models and laser scans are also possible to enhance the permit planning process.



These files are downloaded to the Tempo Operations Management mobility application during synchronization, and this allows the documents to be opened on a mobile device even when it is offline.



Content from InConcert Core can also be easily embedded in Tempo Operations Management . The InConcert Core Object Selector allows users to navigate through the InConcert Core user interface and link any object – such as list pages, Info Maps, interactive 3D models and P&ID diagrams – to the appropriate location in Tempo Operations Management InConcert Core.



Interoperability: An essential element of a digital twin for operations

As well as adding value to each other, InConcert Core and Tempo Operations Management both have connectors to these leading industrial systems of record:

- Aspen InfoPlus.21
- IBM Maximo
- Octave Tempo Control System Effectiveness (formerly PAS PlantState Integrity)
- SAP PM
- The PI System

InConcert Core InsightView allows companies to remove data silos by powerfully combining different types of asset data into a single contextualized dashboard. Visualizing data in this context reduces the number of required user interfaces from multiple systems of record. Dashboard widgets can be related to a selected object using a step-by-step wizard – such as a tag, unit, change request, work package and others – allowing users to easily visualize plant information relevant to that object. This enables personnel to quickly find important information related to a particular process unit or piece of equipment, leading to interdepartmental clarity when investigating incidents and avoiding time wasting double work.

As your trusted digital transformation partner, Octave's operations and maintenance solutions can help you create intelligent information from both unstructured, duplicated and disconnected data and documentation, as well as structured digital data sources and databases, and consolidate them to reduce operational risk, increase efficiency, decrease downtime, remove value leaks and meet internal and external compliance.

Isn't it time to accelerate your journey to operational excellence by digitally uniting your operations, maintenance, safety, engineering and real-time data?

About Octave

Octave is a leader in enterprise software, turning data into decisive action and intelligence into your edge. Our software solves for and simplifies complexity, from the design and build to operations and protection of people, property and assets – for any scope, at any scale. For decades, we've partnered with customers to sharpen performance, elevate efficiency and amplify results. From factory floors to entire cities, our solutions are tuned to scale up what's possible from day one onward.

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