OCTAVE

BROCHURE

What are the benefits of digital control of work solutions?



1 Effective control of high-risk and hazardous work

Traditional control of work systems rely on the experience and expertise of operators and contractors to carefully and safely carry out work. Operational risk is reduced when stakeholders are skilled, experienced and qualified. However, with ongoing contractor and staff turnover, if permits are not managed efficiently, this can lead to new and inexperienced staff managing dangerous work that they may not have the credentials to handle.

The patented Octave Tempo Operations Management (formerly j5 Operations Management Solutions) designer – included with Octave Tempo Control of Work (formerly j5 Control of Work) – makes it easy to configure the required approvals and workflow steps to the exact needs of each job in a unique yet familiar spreadsheet-like environment.

Tempo Control of Work enforces this through worker identification and required signatures at each step. Visual cues, which can be color-coded to show the status of key steps in the procedure, can be easily added to increase situational awareness. A hazard is less likely to be neglected when safety-critical information can be carried forward and highlighted from previous permits and integrated with Octave Tempo Shift Handover (formerly j5 Shift Handover).

Additionally, attaching relevant information related to all work permits from data sources such as the Computerized Maintenance Management System (CMMS) is easy. This means that high-risk and hazardous work can be tightly controlled and documented by authorized personnel, ultimately leading to a safer and more collaborative enterprise.

2 Improved and integrated health and safety processes

Because of the inherent constraints associated with traditional manual operations and maintenance processes, it is hard to considerably improve health and safety culture using inadequate disconnected tools. Human error occurs when procedures are not clearly defined. Tempo Control of Work provides significant improvements to health and safety practices by providing strictly defined procedures from the original work request through the final approval and completion of the work order.

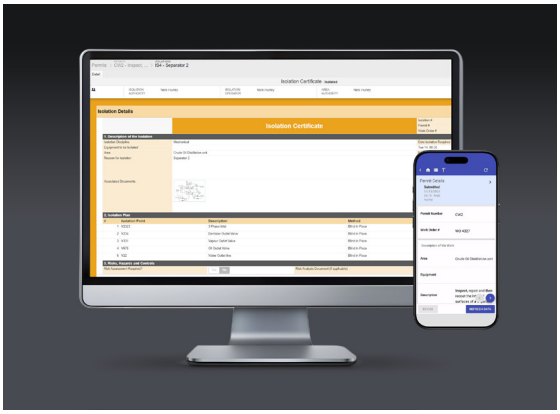
If integrated, Octave Tempo Management of Change (formerly j5 Management of Change) and Octave Tempo Operator Rounds and Routine Duties (formerly j5 Operator Rounds and Routine Duties) can also provide additional coordination and visibility of related activities. Day-to-day Tempo Control of Work procedures can also be integrated with Tempo Shift Handover and Octave Tempo Action Management (formerly j5 Action Management), further reducing data silos and increasing health and safety collaboration and culture.

3 Informed decision-making with operational and safety insights

The overall operational health of an industrial site is directly associated with the ability of personnel to quickly identify ongoing or upcoming problems that could cause disruptions. With traditional control of work systems, it is very hard to get an overview of the state of the permitting process. This involves searching through many documents and manually compiling a report, which will most likely have information gaps. Information is delivered in context for each role, enabling better decisions and stronger insights. Overall, if there isn't a clear understanding of the current state of the operation, decision-making can be misguided with a lack of insight from the plant floor to the boardroom. With Tempo Control of Work, comprehensive data can be accessed easily and quickly using Tempo Operations Management dashboards, reports and views.

Reports are automatically populated with information in real-time, and neat PDF and spreadsheet files can be emailed to relevant stakeholders. As procedures develop, notifications can also be triggered to reach appropriate personnel in real-time. This means plant personnel have an accurate, clear, up-to-date and verified visualization of the work permit process and the associated activities. This information is continually displayed in intuitive visual formats like calendar views, dashboards, Gantt charts and plot plans. This makes it possible for everyone to have a clear understanding of site operational health.

4 Better work processes resulting in cost and time savings



With traditional control of work systems, many procedures are tedious, time-consuming and inconsistently carried out, resulting in inefficiencies and increased costs. With Tempo Control of Work, all information is digital and personnel can access this safety-critical data in real-time leading to significant cost and time savings.

Don't spend hours searching through cabinets and folders in disconnected locations. Tempo Control of work users can simply click on a document and distribute it to all stakeholders. Built-in filtering and search quickly surface key permit, engineering and real-time data. Standardized workflows ensure consistent execution across the enterprise. Permits are easily configured by authorized personnel, allowing workflows to evolve with changing requirements and regulations. Information is presented clearly, quickly and in real time.

5 Decreased paperwork with digital mobility

Tempo Control of Work significantly reduces paperwork while making information accessible to personnel across site offices, control rooms and the field. Procedures configured in the Tempo Operations Management designer are optimized for both desktop and mobile. Data entry is streamlined through intelligent cloning of existing permits, saving valuable time.



6 Accountability, auditability and traceability

Industrial sites are faced with regulatory pressure to account for the safety-critical procedures and processes that are undertaken daily. Done right, accounting, auditing and tracing produce valuable data that surfaces opportunities for improvement. With Tempo Control of Work, there are comprehensive built-in information management structures to support accountability, traceability and auditability of all procedures and processes. Most of these functions are carried out automatically without the need for any additional work by end users. For example, approvals are strictly required at each key step, each permit is traceable based on a unique numbering system and an audit trail is comprehensively recorded automatically.

7 Improved data compliance, retention and security

With ever-increasing regulatory compliance requirements, there is a critical need to collect quality information and to ensure data is secure and safely retained for future analysis. Having secure data is just part of the requirement; it must also be easily accessible and presented in a visual, intuitive. Maintaining this critical compliance task with traditional control of work systems is extremely difficult. With Tempo Control of Work, collecting, organizing and securing quality information is mostly automatic. Work permit information, statistics, anomalies and workload trends are routinely collected and presented in intuitive, visual presentations. Information is securely available to authorized users and retained as needed. Reports for regulators can be created, scheduled and automatically distributed, with search capabilities and easy PDF or spreadsheet exports.

8 More efficient maintenance execution

Companies that use traditional control of work systems face inherent issues that limit the efficiency and effectiveness of industrial procedures and processes. Trying to schedule, monitor, coordinate and manage maintenance tasks intelligently is difficult and tedious. It also opens the door to human error that can increase unnecessary operational risk and plant downtime. Tempo Control of Work connects maintenance tasks to CMMS work orders and tracks each step from verification to closure. Stakeholders are informed throughout, ensuring safe, efficient execution. Work status is visible and accessible to all, including mobile users. This means roadblocks are immediately visible and corrective actions can be taken. Integrating all information into a streamlined workflow results in a quick and safe turnaround.



Get the benefits of Tempo Control of Work

Reduce operational risk, digitalize operations and meet compliance



Enterprise scalability

Tempo Control of Work is powered by Tempo Operations Management templates, which allow companies to transform paper, spreadsheets, word processor documents and scattered databases into enterprise-level applications quickly and with minimal disruption to operations.



Patented spreadsheet-like configurability

While Tempo Control of Work is an enterprise wide digital platform, the Tempo Operations Management designer allows personnel to configure Tempo Control of Work in a familiar, patented spreadsheet-like environment. This makes configuration easy and accessible to those who don't have programming skills while also reducing expensive vendor change requests and reliance significantly, which lowers the cost of ownership.



Comprehensive mobility

This configuration extends to mobile devices, where Tempo Operations Management templates can also be used extensively, meaning companies can develop mobile applications internally with minimal effort. This is significant with Tempo Control of Work because, according to the Health and Safety Executive (HSE)[1], it is important to recognize hazards when and where work is carried out.



Tried and trusted solution

Tempo Control of Work is not an underdeveloped add-on; it is part of a solid digital platform solution designed that has been designed to continually improve with minimal disruption and to futureproof your control of work processes. Tempo Operations Management is a consistent, upgradable digital platform where site configuration is modular to allow for relatively effortless upgrades.



Increased efficiency and time savings

As all Tempo Operations Management elements exist on the same desktop and mobile framework, upgrading multiple templates is stable and hassle-free. This simple upgrade process saves time and financial costs, allowing customers to allocate more resources toward the safe operation of their plants.

[1]HSE is a U.K. government agency responsible for the encouragement, regulation and enforcement of workplace health, safety and welfare and for research into occupational risks.

Configuration benefits of Tempo Control of Work

- ✓ Extremely easy to add new fields with multiple configuration options
- ✓ Start with templated, fully configurable workflows, or design your own workflows from scratch (these templated intuitive workflows have configurable approvals, gates, notifications and states)
- ✓ Ability to test layouts in the Tempo Operations Management designer and publish in real-time with no disruption to application or data, reducing the cost of testing for configuration changes
- ✓ Simple to change the layout of Tempo Control of Work modules on desktop and mobile
- ✓ User roles and permissions can be strict or flexible, whatever is required for each scenario
- ✓ Dynamic user experience designed to promote ease of adoption, for example text or background colors that change depending on field values
- ✓ Multiple visualization options, such as calendar views, dashboards, Gantt charts and plot plans
- ✓ Enterprise wide digital platform with patented spreadsheet-like configuration
- ✓ Seamless links to external data sources and other industrial applications like data historians and the CMMS
- ✓ Seamless integration between Tempo Control of Work modules and other Tempo Operations Management elements that enable users to provide a comprehensive end-to-end solution landscape
- ✓ Interact with 3D models, laser scans and P&ID diagrams (requires Tempo Operations Management Connector for Octave InConcert Core – formerly HxGN SDx)
- ✓ Integrates with many Octave products, such as InConcert Core, Octave Facets P&ID (formerly Intergraph Smart P&ID) and others

Version upgrade benefits of Tempo Control of Work

- ✓ Robust version control
- ✓ Upgrade without shutdown and plant disruptions
- ✓ Hassle-free roll-back and roll-forward capabilities
- ✓ New versions of Tempo Control of Work modules and other Tempo Operations Management templates can be tested thoroughly before going live

"Tempo Operations Management offers the advantage of having a proven industrial solution whilst having the option to provide any complementary module that you would need for a specific requirement."

Laurent Hardy
Operations manager, European Synchrotron Radiation Foundation (ESRF)

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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