OCTAVE

BROCHURE

Straightforward digitalization without disruptions

The challenge

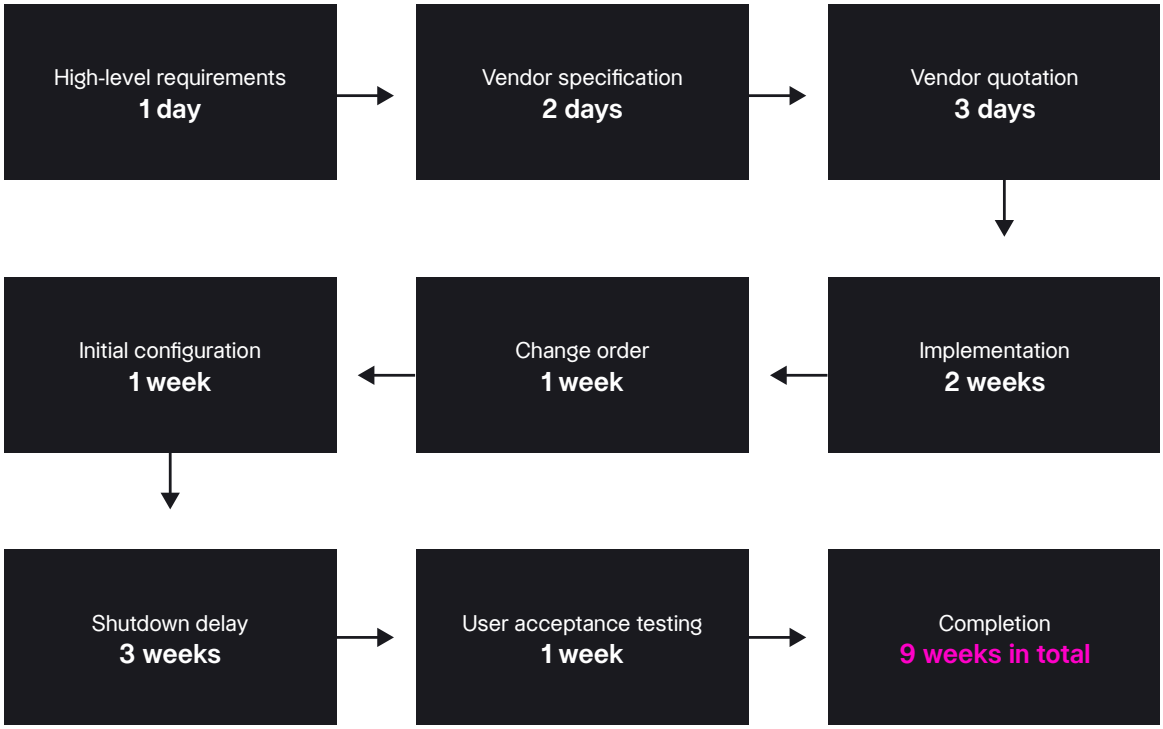
Many industrial sites have spent years developing control of work procedures that have been used in the field, albeit on paper, spreadsheets, word processor documents and scattered databases. However, choosing the wrong vendor to digitize these safety-critical procedures can also lead to unexpected problems, such as:

- **Disconnected applications:** Safety-critical information is siloed and not easily shared between teams.
- **Singular applications:** Vendors offer singular control of work applications that cannot address the many different control of work requirements.
- **Enterprise inconsistencies:** Operations, maintenance and safety personnel use different applications and documents to control work, missing out on critical overlapping data.
- **Zero mobility:** With no control of work mobile applications, field personnel don't have access to key information when anomalies in procedures occur.
- **Detached third-party applications:** Important maintenance and real-time data from data historians, the Computerized Maintenance Management System (CMMS), the Distributed Control System (DCS), the Programmable Logic Controller (PLC), EAM software and the Supervisory Control and Data Acquisition System (SCADA) systems are often not readily available.
- **Costly configuration:** Some vendors make control of work software that is difficult to configure, which wastes time, adds financial costs and encourages unnecessary change requests, making companies overly dependent on vendors when quick changes are required.
- **Vendor reliance:** Making regular modifications and creating mobile extensions of control of work applications requires advanced coding skills and vendor engagement.
- **Strenuous scalability:** Scaling control of work applications and procedures to other departments and sites is a laborious task.

As a result, implementing a digital control of work solution without consideration for the above causes more unnecessary problems. Some vendors who provide digital solutions also advise companies to adopt new control of work procedures when digitizing simply because their products are inflexible. This is counterproductive and sometimes increases operational risk since the workforce must now suddenly adopt new procedures.

Some vendors also provide control of work software that requires an advanced level of computer literacy and training to configure. This forces the user to return to the vendor for any modifications. Changes to control of work procedures are not infrequent because industrial sites are continually evolving, and often, legislation forces companies to modify their design and processes. Companies are then trapped in a frustrating and lengthy process of defining changes, raising purchase orders, QA testing and financial payments to a vendor.

High vendor reliance leads to a high cost of ownership



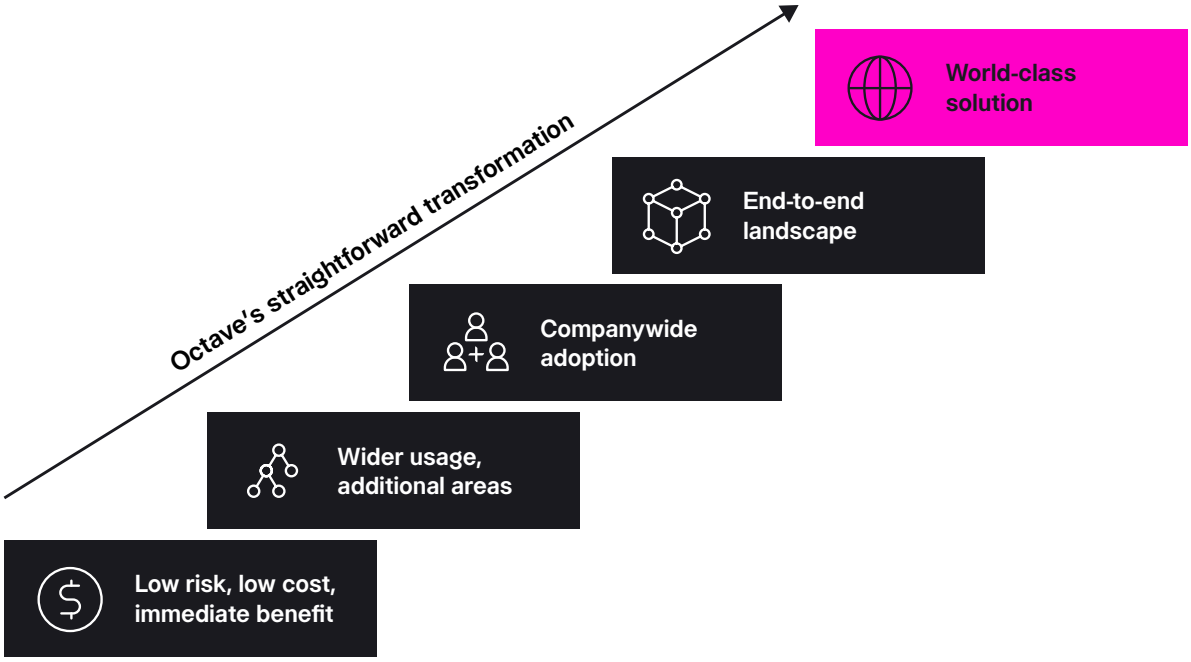
It is important to avoid these roadblocks by carefully analyzing the control of work requirements for each site and choosing a vendor who can provide a straightforward digitalization tool with a simple configuration.

Rashly implementing a digital control of work solution causes more unnecessary problems.

Octave Tempo Control of Work

The solution

Octave recommends a unique, straightforward digitalization approach to industrial enterprises looking to move away from paper, spreadsheets, word processor documents and scattered databases. This mainly revolves around a step-by-step digital evolution of a company's existing processes. Many of the procedures and visuals in Tempo Control of Work (formerly j5 Control of Work) mirror the previous analogue version. Yet, all the advantages of digitalization such as strict workflows, required approvals, instant access to information, interfacing with other industrial software, automatic notifications and many other enhancements are inherent in this Octave solution.



Tempo Control of Work features

Integrated applications

Integrated desktop and mobile applications can be connected to further coordinate and enhance workflows, which are carried out and followed by multiple operations, maintenance, safety and engineering stakeholders and contractors.

Multiple and consistent applications

Tempo Control of Work includes several interconnected processes and modules such as hot work permits, cold work permits, certificates, isolations, hazards and others.

Master permit	Associated certificates	Isolations	Hazards	Others	Common items
Hot work	Confined spaces	Isolations	Job safety analysis	PPE	User management
Cold work	General certificates	Lockout-tagout	Risk analysis	Toolbox talk	Plot plan
Breaking containment	Working at height	Work groups	Gas tests	Lessons learned	Dashboard
	Overhead lift plan		Others	Others	Gantt chart
	Excavation				

Figure 1. Tempo Control of Work modules

Enterprise consistency

Operations, maintenance and safety personnel use a central digital platform to control work, with the ability to easily interface information from important external sources such as equipment, functional locations and work orders from the CMMS, trends and values from a data historian and engineering information such as data sheets and P&IDs; this connected information saves precious time and workers are more prepared to control work safely.

Extensive mobility

Tempo Control of Work has a readily available mobile user interface, including intrinsically safe models that can operate in hazardous areas, and a spreadsheet-like designer is used for both desktop and mobile configuration, making it quick and easy for authorized personnel to create and modify Tempo Control of Work as requirements change.

Connected third-party applications

Octave Tempo Operations Management (formerly j5 Operations Management Solutions) is a single framework of integrated applications that are used to manage and record operations, maintenance, safety and engineering processes and procedures. All applications can be interfaced with data connectors for third-party software such as connectors for Aspen InfoPlus.21 (IP.21), IBM Maximo and the AVEVA PI System™.

Simple configuration

Tempo Control of Work offers a unique yet familiar low code/no code configuration environment that enables the end user to quickly make changes on-site without having to constantly engage in vendor change requests.

Configuration control

Authorized engineers can quickly respond to new requirements by simply modifying the patented spreadsheet-like Tempo Operations Management designer.

Enterprise scalability

Scaling Tempo Control of Work modules and procedures to other departments and sites is easy. Tempo Operations Management is a consistent, upgradable digital platform where site configuration is segregated to allow for relatively effortless upgrades.

To cover all permitting requirements, a control of work system must provide comprehensive modules addressing the work to be carried out and the required documentation, such as:

Permits	Certificates	Isolations	Hazards	Others
Hot work	Confined spaces	Lockout-tagout	Job safety analysis	PPE
Cold work	Excavation		Risk analysis	Toolbox talks
	Working at height			

However, some vendors provide singular applications and should an end-user require additional functionality, this leads to expensive and time-consuming vendor change requests. Tempo Control of Work includes a comprehensive suite of relevant permit-to-work modules, processes and procedures. All elements of Tempo Control of Work may be quickly modified onsite by authorized site personnel and changes can be made in hours/days instead of weeks/months (if these were instead managed by an external vendor).

Tempo Control of Work leads to lower cost of ownership

Skills	**Operational IT (spreadsheet)**
People	**Subject matter experts (assisted by IT)**
Estimated cost	**$200 per hour / $1,600 per day**

Specification **1 day**	Implementation and testing **1 week**	Completion **1 week in total**

Octave understands the problems of upgrading to new software versions enterprise wide when each site has a different installation or configuration that has been created with custom services by the software vendor. Companies require an established solution that is easy to configure internally and remains stable when updates are deployed. Tempo Operations Management templates are configured in a patented spreadsheet-like environment, enabling personnel to rapidly design them in a familiar and intuitive way. Desktop and mobile applications are now in sync and no advanced source code programming skills are required.

Tempo Control of Work technology

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

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 without programming skills, while reducing expensive vendor change requests and reliance significantly, lowering the cost of ownership.

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

Tempo Control of Work is not an underdeveloped add-on; it is part of a solid digital platform solution 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.

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 also saves time and financial costs, allowing customers to allocate more resources toward the safe operation of their plants.

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 such as 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, and Octave Facets P&ID (formerly Intergraph Smart P&ID)

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 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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