



SOLUTION SHEET

Construction Execution with Octave



Connect the model, the materials and the field in one execution chain

In industrial construction, projects rarely fail because one activity is impossible. They fall behind at the seams — where engineering, materials and field execution meet but don't connect. Work packages built from outdated models. Crews standing idle because materials aren't where they need to be. Completions and turnover assembled by hand at the end of the job, under schedule pressure, when the risk is highest.

The Construction Execution package closes those seams. It brings together three Octave solutions that connect a conditioned model to material-ready work fronts, and then to a structured digital completions and handover process. The result is fewer surprises, less rework, better schedule confidence and a faster, more defensible path to operations.

Model to materials to turnover

Octave positions Construction Execution as one connected flow: condition the model, confirm the materials are ready, execute the work digitally, then complete, commission and hand over. Each product delivers value on its own, and each becomes more valuable when connected to the next.

A reliable model and work-package foundation

On most capital projects, the model and the field operate in parallel but disconnected worlds. Drawings are emailed, revisions are shared informally, and crews build from whatever version is on hand. The rework that follows compounds across the life of the program.

[Octave OnSite Visualize](#) (formerly iConstruct PRO) addresses this upstream. As BIM software for Autodesk® Navisworks®, it helps teams condition the model, improve collaboration and structure work by area, system, discipline and package. OnSite Visualize MAX adds Control Panel, which supports CII-defined Advanced Work Packaging and Workface Planning. The outcome is a clear, well-structured definition of what needs to be built before crews reach the work front.

Material-ready work fronts

A clear plan still stalls if the materials aren't available. Bulk materials and tagged items move through fabrication, inspection, logistics and site receipt across many suppliers and subcontractors, and any disruption in that chain reaches the field quickly.

[Octave Loop Core](#) (formerly HxGN Supply Chain Core) provides real-time visibility into material status and location, from procurement through fabrication, logistics, site receipt and installation. Loop Core supports receiving, inspections, picks, issues and returns using web software, mobile devices, RFID tags and barcode labels. Materials teams, planners and field supervisors share one accurate view of what is arriving, when, and whether the schedule is at risk — so proactive planning replaces reactive expediting.

Digital completions, commissioning and turnover

The final phase of a program carries the highest schedule risk. Completions tracked in spreadsheets, punch lists managed informally and turnover packages compiled manually are where well-run projects suddenly fall behind.

[Octave OnSite Completions](#) (formerly Intergraph Smart Completions) replaces that with a structured, audit-ready digital workflow. It digitizes field execution, QA/QC and inspection test records, punch management, construction and mechanical completion, pre-commissioning, commissioning and start-up. Digital certificates, approvals and turnover packages build progressively across the job and compile automatically for submission to the operator, along with the equipment records needed for warranty and maintenance.

Business impact

- Reduce field rework by structuring work from a conditioned, current model before crews reach the work front
- Cut material-driven idle time by making material status and readiness visible from procurement through installation
- Accelerate time to operations with a digital completions and turnover process that builds progressively instead of at project close
- Improve schedule confidence with a shared, real-time view across engineering, materials and field execution
- Standardize delivery across projects and sites with consistent, repeatable digital workflows

Ready to lead more efficient and optimized projects?

Contact us

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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