SOLUTION SHEET

Octave InConcert Assistant

The AI assistant built into your contextualized data foundation. Get accurate, validated answers in seconds.



Key Features

Gives engineers ~2.5 hours back per day — refocus on decisions, not lookup.

Native to Octave InConcert — no separate AI implementation project.

Synthesizes asset documents, engineering master data and the 3D model into one cited answer.

Inherits InConcert data, security and roles — no data leaves your environment.

Challenge

Projects and assets are drowning in fragmented information. Engineers lose an average of 2.5 hours per day jumping across five to eight different systems, new hires take 12–18 months to reach full productivity, and unplanned downtime costs the industry more than $50B annually. On capital projects, 30–45% overruns are routinely traced back to data gaps and late-found inconsistencies.

The right data already exists inside your asset information environment. It just isn't accessible in time, in context, or in the language people actually use. Conventional search and bolt-on AI tools can't bridge that gap without exposing sensitive data, duplicating it, or hallucinating on engineering specifics.

Solution

InConcert Assistant is a conversational AI assistant native to Octave InConcert (formerly HxGN SDx2). It synthesizes engineering master data, asset documents and the 3D model into one cited answer — walking the links between tags, datasheets, P&IDs, HAZOP studies and revision history, instead of keyword-searching a flat folder. Available today for InConcert customers, Assistant enables:

- Natural-language questions across structured, unstructured and 3D context
- Cited answers with full traceability to source document or tag
- Drafting of procedures, checklists and reports from retrieved content
- Surfacing compliance gaps, inconsistencies and similar past events — all inside the InConcert security boundary

Assistant turns the entire InConcert asset data foundation into a conversation. Using your contextualized engineering, operations and 3D data, it converts isolated records and documents into traceable, actionable answers. Each response cites the underlying source — a tag, datasheet revision, P&ID, work order or HAZOP node — so engineers can verify before acting.

Where InConcert Assistant delivers value

- **Productivity:** Up to 30% less time on lookup, more time on decisions. Engineers ask in natural language and get a cited answer across five to eight systems instantly.
- **Risk:** Verified procedures at the point of need. Aria flags compliance gaps, expired inspections and inconsistencies before they become incidents, RFIs or rework.
- **Knowledge:** Days, not months, to ramp new engineers and contractors. Tribal knowledge captured in datasheets, P&IDs and revision history is finally accessible to the next shift.
- **Handover:** All open change requests against a tie-in surfaced from one source of truth — at last.

How InConcert Assistant works

- **Connect:** Assistant indexes your InConcert asset data foundation automatically — no separate ETL or data lake.
- **Ask:** Engineers and operators ask in natural language. No query syntax, no training required.
- **Synthesize:** Assistant searches structured records, unstructured documents and the 3D model in parallel.
- **Respond:** It returns a contextualized answer with full traceability back to source.
- **Act:** Assistant can draft a procedure, checklist or report from retrieved content — ready for review. Built into your asset data foundation — not bolted on

Unlike general-purpose AI tools that have no asset context, or bolt-on AI connectors that require a separate integration project and copy data outside your security boundary, Assistant runs natively inside Octave InConcert. It inherits the same data model, security and role-based access already configured. No data leaves your environment, and capabilities expand as your InConcert footprint grows.

For EPCs and engineering

- **Cross-discipline consistency:** Assistant reconciles the datasheet, tag property and HAZOP node to catch inconsistencies before they become RFIs.
- **Approval traceability:** Which P&ID references this tie-in, and are all approvals signed? One query returns the chain.
- **Handover risk reduction:** All open change requests against a circuit, in a single cited list.

For owner-operators

- **Inspection currency:** Are all critical valves on circuit C-12 within the inspection window? Assistant flags compliance gaps before they become findings.
- **Document currency:** What is the design pressure for pump P-9000? Aria cites the latest datasheet revision — no more chasing the right file.
- **Work-order context:** Where CMMS data is connected to InConcert, Assistant surfaces the open work orders alongside the engineering record — one query, one cited list.

To learn more about InConcert Assistant, please visit Octave or 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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