

acuvate®
... where Acumen drives Innovation

DiagramIQ

From Static Engineering Drawings to
Intelligent, Searchable Assets





Navigating Complexity in Industrial Engineering Data

For organizations in sectors such as **Manufacturing, Oil & Gas, and Energy**, the volume and complexity of engineering diagrams—P&IDs, electrical schematics, instrumentation layouts, safety diagrams—continue to grow. Yet, much of this data remains siloed, unstructured, and inaccessible in static formats.

The result?

- Disconnected tag registries
- Inability to trace tags across multiple documents
- Fragmented drawing systems
- Inefficient access to critical information
- Limited readiness for digital twin initiatives

“ These challenges inhibit operational agility, delay decision-making, and obstruct modernization efforts. ”



DiagramIQ: Elevating Engineering Data into Actionable Intelligence

DiagramIQ is Acuvate's AI-powered accelerator built to address the long-standing disconnect between engineering documentation and modern enterprise intelligence. It is a scalable, modular platform that digitizes, contextualizes, and enables intelligent access to technical diagrams across the organization.

Key Capabilities



AI-Powered Diagram Processing

- Uses AI models to extract data from various diagram types (P&ID, electrical, instrumentation, safety)
- Supports diverse formats, ensuring flexibility and broad applicability
- Enables automated tagging, contextual mapping, and information structuring



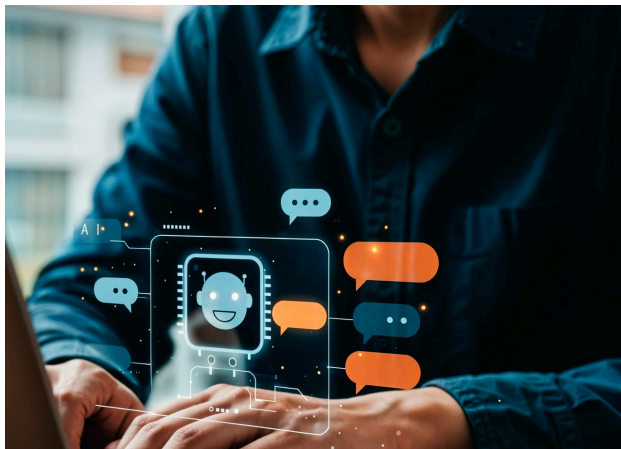
Unified Tag Registry (via Microsoft Fabric & AcuPrism)

- A centralized platform for tag lifecycle management
- Supports create, search, update, and governance workflows
- Integrated with Microsoft Copilot for natural language interactions



Graph-Based Data Architecture

- All diagrams and relationships are stored in a graph database
- Users can explore asset interconnections and dependencies with precision
- Enables advanced query capabilities and contextual insights



Copilot-Enabled Conversational Access

- Empowers users to ask natural language questions about diagrams and assets
- Returns intelligent, real-time answers for improved decision support



Seamless Integration with Existing Systems

- Interoperates with existing Engineering Drawing Management Systems
- Synchronizes content and metadata across platforms
- Bridges digital and legacy environments



Continuously Expanding Toolkit

- Designed as a flexible accelerator with ongoing enhancements
- Adapts to emerging use cases in compliance, maintenance, and digital twin readiness

Strategic Business Benefits



Reduces engineering data retrieval time from hours to seconds



Improves safety, maintenance planning, and operational uptime



Accelerates digital transformation by preparing data for advanced use cases



Enables a single source of truth across engineering and operations



Enhances governance, traceability, and compliance workflows



Ready to Rethink Engineering Intelligence?

DiagramIQ represents a significant step forward in bridging the gap between static technical documentation and intelligent, digital operations. It empowers organizations to move beyond diagram storage—to diagram intelligence. If you are facing challenges in navigating your engineering drawings, managing tag complexity, or scaling toward digital twins, we invite you to explore DiagramIQ.

Bring us your toughest use case
We're ready to help you solve it.



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