

Your data center runs like a factory

You can control it like one

groov EPIC—industrial edge control built for mission-critical data center infrastructure



***groov* EPIC**

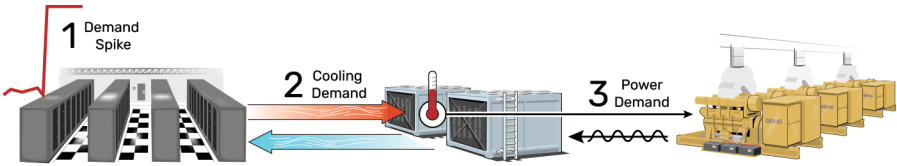
DATA CENTER SOLUTION

OPTO 22
Your Edge in Automation.™

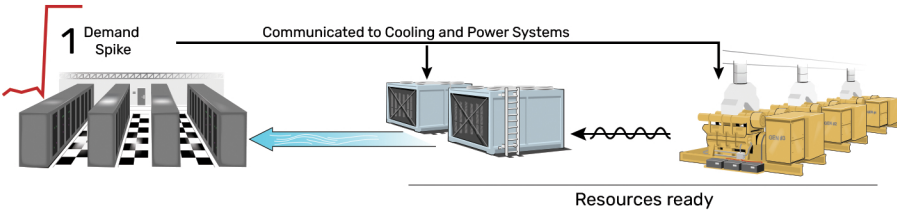


Why Today's Data Center Control Architectures Fall Short

The control architecture most data centers rely on has a structural flaw: **IT systems, CDU controllers, and facility cooling operate as three separate domains with no real-time connection between them.** When a training job launches, the GPU power draw spikes in milliseconds—but your facility plant only reacts to what its own sensors read, not to the load that just hit. The only compensation is to run cold all the time. That inefficiency is baked into the facility from day one.



DDCs and BMS platforms don't close the gap. They poll on multi-second intervals—not fast enough for sub-second thermal events—and hit hard limits on point counts and integration scale. According to Inductive Automation®'s data center team, facilities are “trying to run a heavy industrial plant on systems that were never designed for this environment.”

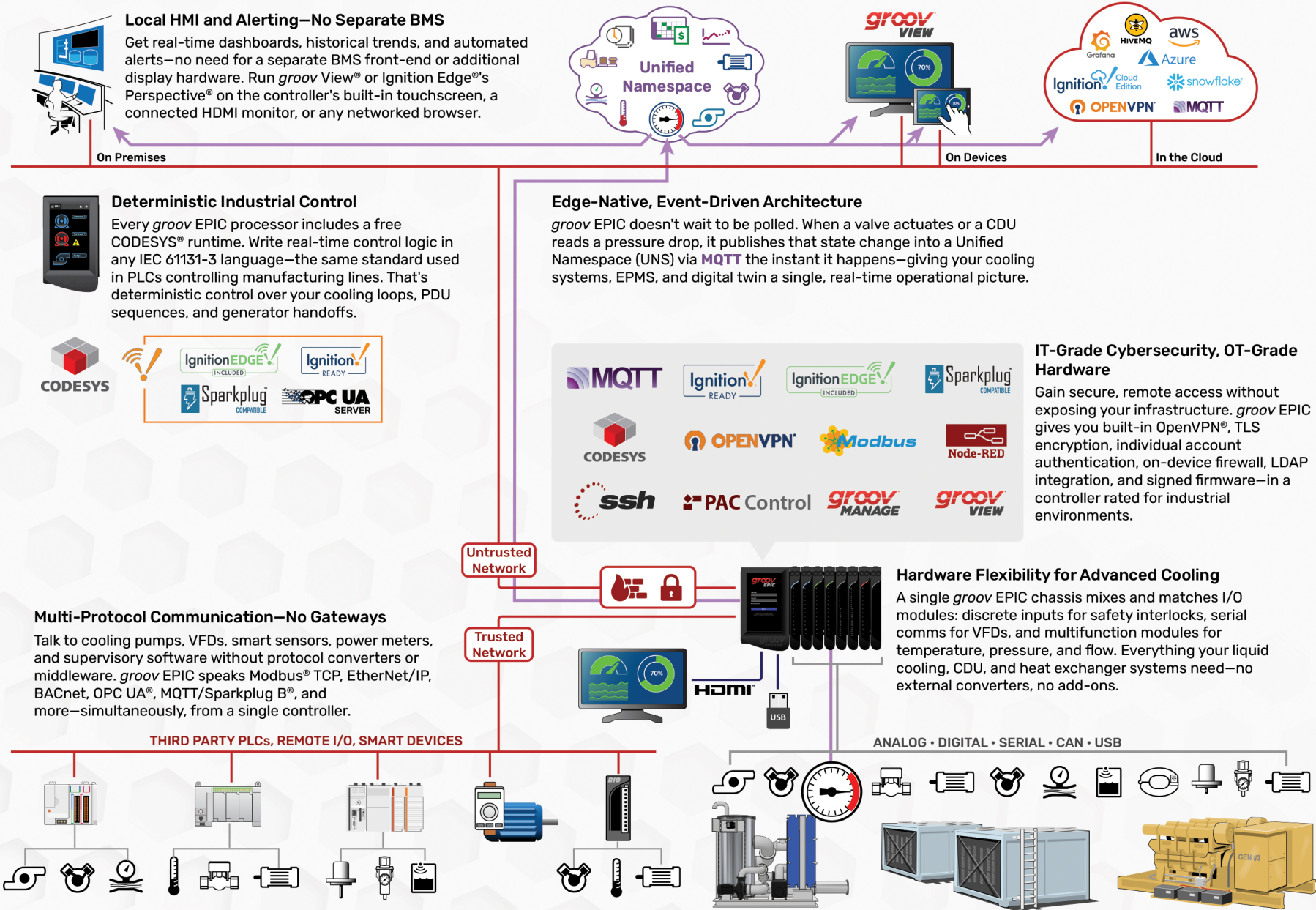


"Monitoring is passive. Management is active."

- Christopher Markstein, Data Center Market Lead
Inductive Automation, April 2026

groov
EPIC™

What does the groov EPIC bring to data centers?



Visit <https://www.opto22.com/products/groov-epic-system> to learn more!

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CUSTOMER: NAUTILUS DATA TECHNOLOGIES



Nautilus Data Technologies™ built one of the first large-scale liquid-cooled data centers in the U.S.—on the San Joaquin River since 2019. When they engineered their commercial liquid cooling product, the EcoCore FCD™, they chose *groov* EPIC as the control platform. The system runs two EPIC processors: one managing real-time control of pumps, valves, and safety systems; a second handling supervisory coordination, Ignition Edge® data collection, and OPC UA® communication between controllers. All I/O—digital inputs, serial VFD comms, multifunction modules for flow, pressure, temperature modules—resides within the *groov* EPIC chassis.



"Working with Opto 22 was key to simplifying the whole system. We needed controls that were highly adaptable and configurable, and that's what we got."

- Augustin Roca, VP of Product at Nautilus Data Technologies

WHAT IS EPIC?

Edge – Collect, process, view, and exchange data where it's produced—at the edge of the network. Securely share data among databases, cloud services, Allen-Bradley® and Siemens® PLC systems, and other equipment, using tools like Ignition Edge® by Inductive Automation®, Node-RED, and MQTT. Visualize data on the integral touchscreen, an external HDMI monitor, or from any web browser or mobile device.

Programmable – Options for control programming include flowcharting with PAC Control™ or IEC-61131-3 standard languages with CODESYS. Secure shell access lets you build your own custom-developed applications with Python, C/C++, and other languages and run them on an open, Linux-based automation system.

Industrial – From plant floors to remote sites, the edge demands industrially hardened equipment—like a wide operating temperature range, solid-state drives, UL Hazardous Locations approval, and ATEX compliance.

Controller – Reliable real-time control—with flowchart, Ladder Diagram, Function Block Diagram, Structured Text, Sequential Function Charts, and custom programming options—plus guaranteed-for-life I/O provide the solid base for all other functions.

Learn more about *groov* EPIC. Speak to an application engineer at 800-321-OPTO, email us at systemseng@opto22.com, or visit us on the web at opto22.com.

Technology Partnership

groov EPIC® is an Ignition Edge® - ready hardware platform. Opto 22 is a Premier Technology Provider with Inductive Automation—the team behind Ignition®, used in data centers worldwide.