DIGI. Ignition Edge for Digi IX40 Technical collaboration combines real-time intelligence, analytics, and connectivity at the network edge

Organizations across the oil and gas, utilities and manufacturing sectors maintain vast portfolios of PLCs, RTUs and sensors, as well as other remote devices. This equipment measures and controls everything from pressure readings to vibration, temperature, valve positions, variable motor speeds and tank levels. Most of these systems are built on legacy SCADA systems. They are built for poll and response to gather readings and control settings from a centralized SCADA server, and they use legacy industrial protocols like Modbus, DNP3 and Profibus to perform these functions in generally closed loop systems. Because these systems are closed systems, it is difficult to share data across the enterprise with users who need access to this data. And because they are poll and response and send large amounts of data back and forth, they are also not very efficient, particularly in IoT environments using wireless technologies.

For too long, those companies have had to contend with a range of incompatible devices and protocols that have merely pushed raw data to central systems for analytics, insights, alerts, and monitoring. That's expensive and slow.

Today, companies want to capture, process, and send only critical data from the remote edge of the network to a centralized repository or broker for sharing data across the enterprise.

The Integration of Digi IX40 and Ignition Edge

To respond to these needs, Digi and Inductive Automation have teamed up to integrate IA's Ignition Edge IIoT® into the Digi IX40 line of 4G/5G cellular routers. Digi IX40 is the latest addition to Digi's family of world-class industrial cellular routers. Digi, a pioneer in cellular connectivity, has been supplying highly reliable industrial cellular routers for over two decades. By adding Ignition Edge IIoT to Digi IX40, you can collect and analyze data right at the source and transform it into actionable insights in real time. Ignition Edge IIoT turns Digi IX40 routers into lightweight MQTT

edge gateways that poll data locally from remote legacy devices and publish data up to centralized brokers using the industry standard format MQTT Sparkplug B. Ignition Edge IIoT supports brokers from Inductive Automation based on Cirrus Link Solutions, or from other third-party brokers from companies like HiveMQ. Ignition Edge can publish data to any system that supports the MQTT Sparkplug B format.



Once data is published to an MQTT broker, other users and systems can subscribe to this data for their applications. These applications could include things like legacy SCADA systems, Enterprise Resource Planning (ERP) systems, Manufacturing Execution Systems (MES) and Historians for data analysis. The beauty of this architecture is changes can be made in applications across the enterprise without impacting other parts of the system. This saves time and money on software development, system integration and regression testing.

Ignition Edge IIoT offers integration with many legacy pieces of equipment (PLCs and devices) on the edge — to protect investments — and unlike other software, offers unlimited number of tags and devices, and the ability to run scripts at the edge.

Typically, this powerful processing would require deployment of industrial edge computers at each edge location. However, Digi IX40 4G/5G cellular routers have an all-in-one design, strong compute power (with Digi Accelerated Linux), and

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integrated memory and storage, all of which support realtime data processing and edge computing while reducing complexity and total cost of ownership. Ignition Edge IIoT can be run in standard Linux containers (LXC) on the <u>Digi</u> <u>Accelerated Linux</u> (DAL) platform.



What's more, you can use <u>Digi Remote Manager</u>®, Digi's cloud-based IoT management platform, to easily activate, monitor, and diagnose thousands or tens of thousands of devices from a single point of command. You can edit configurations, update firmware, and schedule and automate tasks — all from your desktop, tablet or phone. That helps ensure that Ignition Edge IIoT operates properly at all times. Ignition Edge IIoT is deployed using <u>Digi Containers</u> — a value-added service available with a Digi Remote Manager subscription.

Integration Edge and Digi IX40 — An Ideal Pairing

The combination of Ignition Edge and the Digi IX40 router enables seamless integration with Inductive Automation's Ignition platform. This integration supports real-time data collection, processing, and analysis at the edge of the network, empowering you to make faster and more informed decisions while optimizing operational efficiency and reducing downtime.

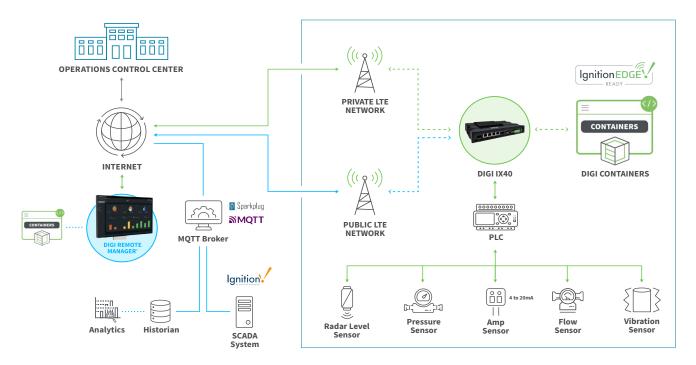
While other routers may provide basic connectivity, Digi IX40 with Ignition Edge delivers advanced edge computing capabilities, enabling customers to derive maximum value from their industrial data right at the source.

Industries such as oil and gas, electric/gas/water utilities and manufacturing benefit from the integration of Ignition Edge IIoT with Digi. These industries rely heavily on industrial IoT solutions to monitor and control critical assets and processes, making them ideal candidates for a robust and reliable edge computing solution.

Helping Customers Today and Tomorrow

The integration of Ignition Edge IIoT with Digi routers aligns with customer needs, particularly the growing demand for edge computing solutions in industrial environments. With the rise of Industry 4.0 and the increasing complexity of industrial IoT deployments, organizations want innovative solutions that enable them to harness the full potential of their data while maintaining reliability, security, and scalability.

Click <u>here</u> to learn more about running Ignition Edge IIoT on Digi Containers.





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