

Addressing System Management Challenges in Oil and Gas Operations

How centralized management can optimize your operations

Oil and gas operations require 24/7/365 monitoring to maintain safety, efficiency, and productivity. Unfortunately, the processes and systems involved in tracking and monitoring operations are rarely centralized into one system for visibility and management.

Digi delivers robust, hardened connectivity solutions that can be managed across your entire network, from one centralized dashboard with [Digi Remote Manager®](#) or SkyCloud. Our industrial-grade cellular solutions are built to withstand the harsh environments of oil and gas operations with always-on reliability, 4G LTE performance and secure out-of-band management for your entire fleet of serial devices.

Customer Example: Major Oil and Gas Operation

Challenge

As a division of one of the largest oil and gas production companies globally, one Digi oil and gas customer has contributed to tripling the larger organization's resource portfolio over the past ten years. The global organization now features approximately 40,000 active oil and natural gas sites across North America.

The customer had two critical requirements:

1. For remote locations that require Internet connectivity, they needed access to public SIMs / APNs and the ability to create a VPN tunnel to secure their data.
2. As a failover backup, they also needed a static, public-facing IP address to remotely access, diagnose and correct network performance issues — and they required this to be impenetrable from security breaches.

Featured Products



Digi Remote Manager

Digi Remote Manager® gives you a simple and secure platform to access data, update firmware and manage any number of devices from anywhere.



Z45 Industrial Controllers

The complete SCADA system in a box with sophisticated PLC-like automation control on the same platform that provides communications



Digi IX30

Digi IX30 is an intelligent 4G LTE router designed for optimal performance and reliability across a wide range of critical infrastructure and industrial applications.

For more information:

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The tasks involved in maintaining an industrial IoT network include firmware and other software updates, security patches and continuous performance monitoring.

The key to managing these tasks across a large, geographically-dispersed deployment is centralized management, including visibility into the health of the entire deployment, rapid notifications in the event of outages, and the ability to securely access any device from the central office or from a laptop in the field. Additionally, authorized administrators must be able to access any device from a command line interface through a secure VPN connection for out-of-band management.

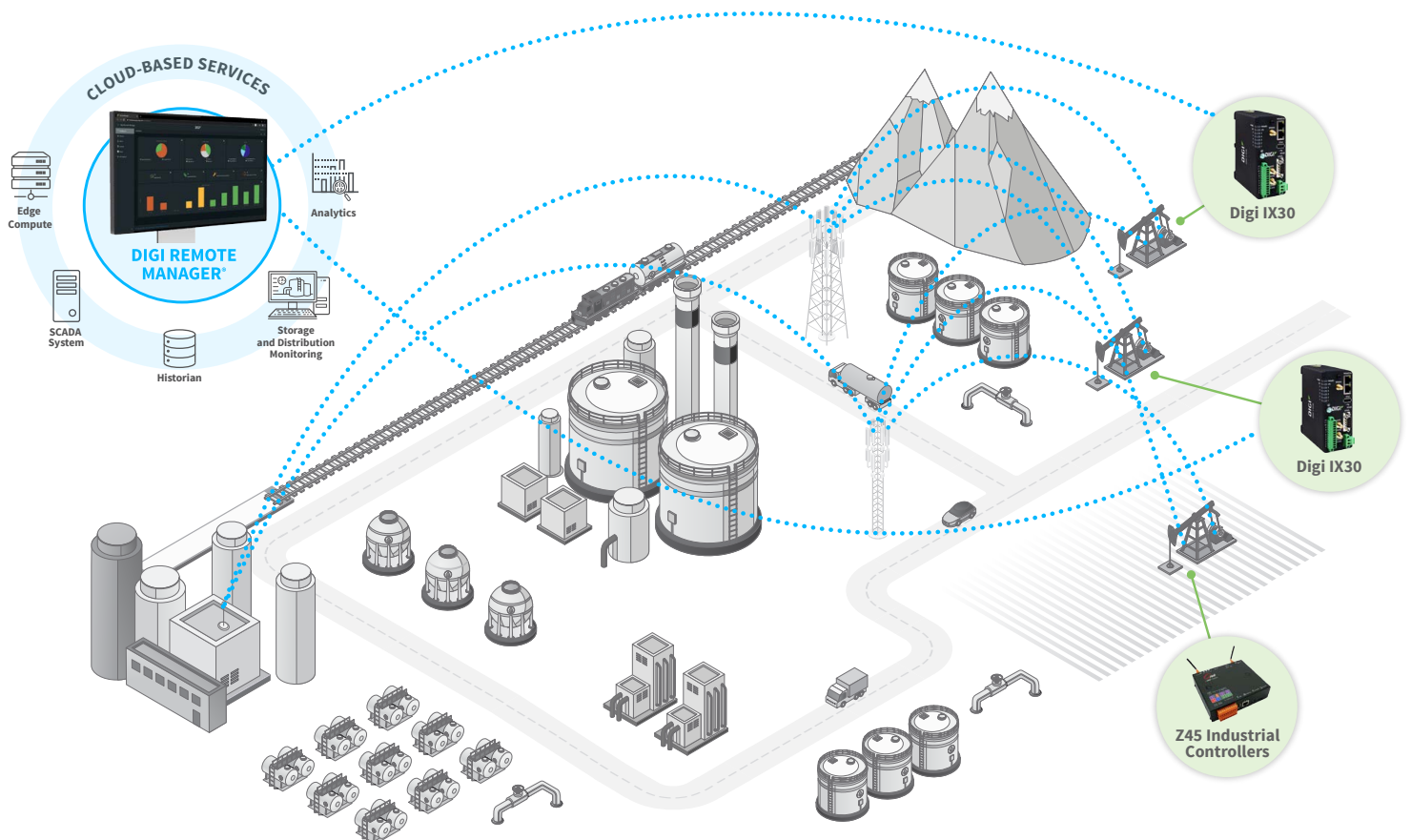
Solution

To oversee their massive deployment of [Digi cellular routers](#), this customer relies on [Digi Remote Manager](#) (Digi RM), a secure management platform that enables IT teams to

monitor and engage their complete portfolio of distributed devices.

Digi RM provides administrators with a **single point of access** to monitor, diagnose, update, and manage Digi routers anytime from anywhere, without requiring costly on-site visits. What's more, they can reach any serial device on the network with secure out-of-band access, and can quickly integrate Digi RM with cloud infrastructure systems such as AWS or Azure.

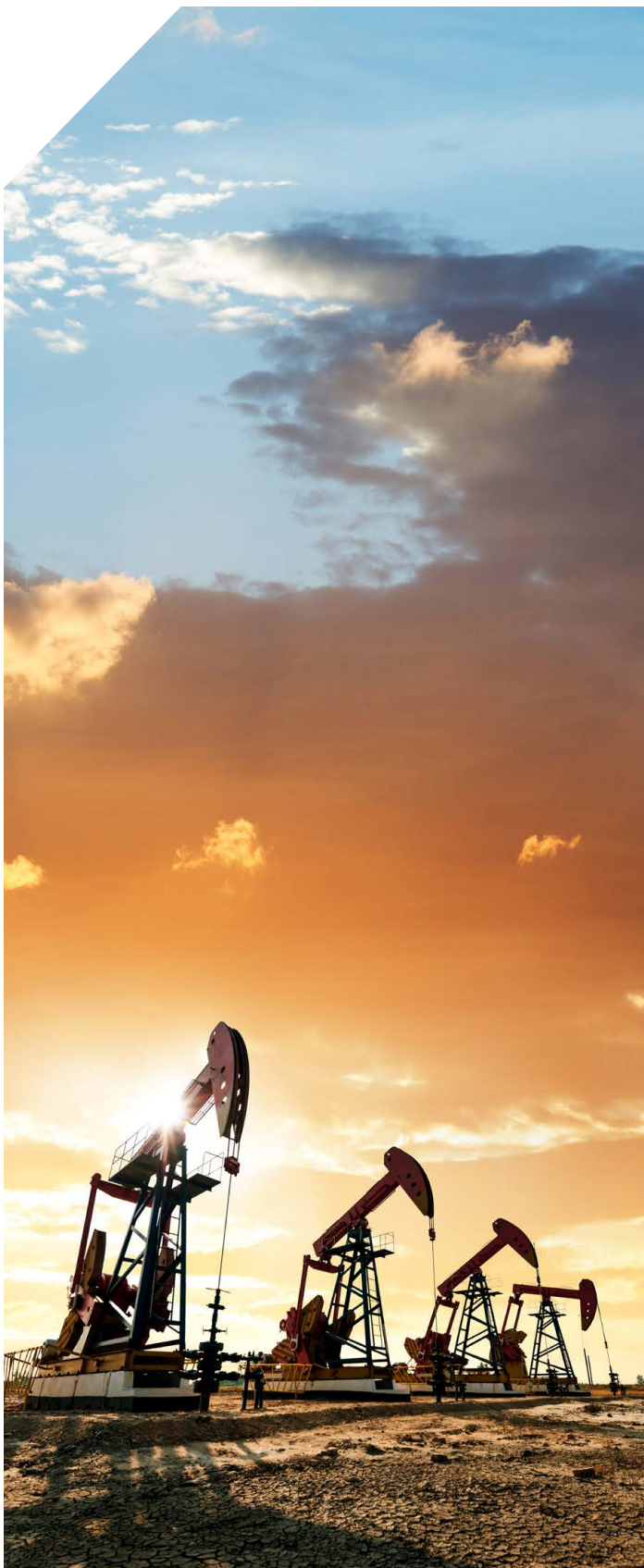
Previously, the customer's IT team provisioned Digi devices at the time of deployment, which required skilled installers to manage each configuration and install. However, they have found it more efficient to pre-install SIMs, and now they simply plug in the unit and it can receive its configuration remotely within minutes via a TLS encrypted connection to the Digi Remote Manager platform.



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Simplified Management of Oil and Gas Operations

Digi's solutions for oil and gas management provide a single interface to address a wide range of applications quickly and reliably. Depending on their needs, customers can choose Digi [industrial cellular routers](#) or Digi's mission critical [sensor connectivity solutions](#), managed by Digi Remote Manager or SkyCloud.

Key Oil and Gas Concerns Resolved

- **Equipment Reliability and Longevity**

Digi sensor connectivity and industrial cellular solutions were built for challenging industrial environments, so you can rest assured that your data will reach you regardless of the conditions.

- **Increased Safety**

Oil and gas operations require high volumes of data from their deployed assets for visibility and safety. Digi 4G LTE routers can transmit data from the network edge to your centralized reporting dashboard quickly so you can perform predictive maintenance and take action.

- **Operational Efficiency**

To protect profit margins, oil and gas operators need more accurate billing, loss prevention and smarter maintenance strategies to prevent equipment failures. Data gathered by sensors and routed by Digi connectivity solutions can help fuel those decisions.

Learn how Digi solutions can help you manage your network more effectively and more securely.

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