elevāt

CASE STUDY

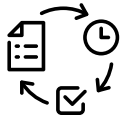# IoT Solution for Oil and Gas:

Optimize Every Drop

Exploring Challenges in the Oil and Gas Industry

A leading manufacturer in the oil and gas sector faced significant **challenges in maintaining uptime for their high-value fracturing (frac) equipment.** The intricate systems and the need for continuous operation resulted in frequent service delays and reduced efficiency. To overcome these challenges, the company partnered with Elevāt to implement a comprehensive IoT solution for better data insights and improved operational management.

Key Transformation Objectives

Elevāt partnered with the manufacturer to achieve a comprehensive set of objectives aimed at transforming their business operations:

Manage Advanced Systems: Efficiently handle the complex systems of engines, transmissions, and equipment to ensure smooth operations across systems.

Maximize Uptime: Prevent critical failures to avoid costly downtime and ensure continuous operation.

Improve Operational Management: Enhance the efficiency and effectiveness of onsite management and maintenance practices.

Elevāt IoT Implementation

Elevāt collaborated with the manufacturer to develop a IoT solution that addressed their business challenges. The partnership focused on key steps to ensure the solution aligned with the company's goals:

Needs Assessment and Planning:
- Conducted an in-depth analysis of the manufacturer's operations.
- Identified critical pain points such as the need for remote diagnostics and proactive maintenance.

Customized IoT Solution Design:
- Designed an IoT solution that integrates advanced sensors on critical components to capture real-time data.

IoT Integration:
- Deployed a secure cloud platform to aggregate, store, and analyze data from the equipment.
- Enabled centralized monitoring and remote diagnostic capabilities for real-time communication between equipment, dealers, and the manufacturer.

Deployment:
- Implemented the Virtual Technician feature to provide remote diagnostics and support to reduce the need for on-site visits.
- Integrated Machine Insights to offer real-time insights into machine performance, for proactive maintenance.
- Set up configurable alerts and notifications for immediate response to potential issues.

Optimization :
- Streamlined diagnostic tools to provide field technicians with a cohesive and user-friendly interface.
- Fostered better collaboration between engine, transmission, and pump manufacturer.

Elevāt IoT Implementation

The implementation of Elevāt's IoT solutions delivered impressive results. **The manufacturer experienced a significant reduction in on-site support visits, a decrease in critical failure events, and improved operational efficiency.** Elevāt IoT helped solve operational challenges, resulting in enhanced productivity, reduced downtime, and greater customer satisfaction.

Discover how Elevāt's IoT solutions can transform your business. Contact us today to learn more about our IoT solutions and how we can help you achieve your operational goals.
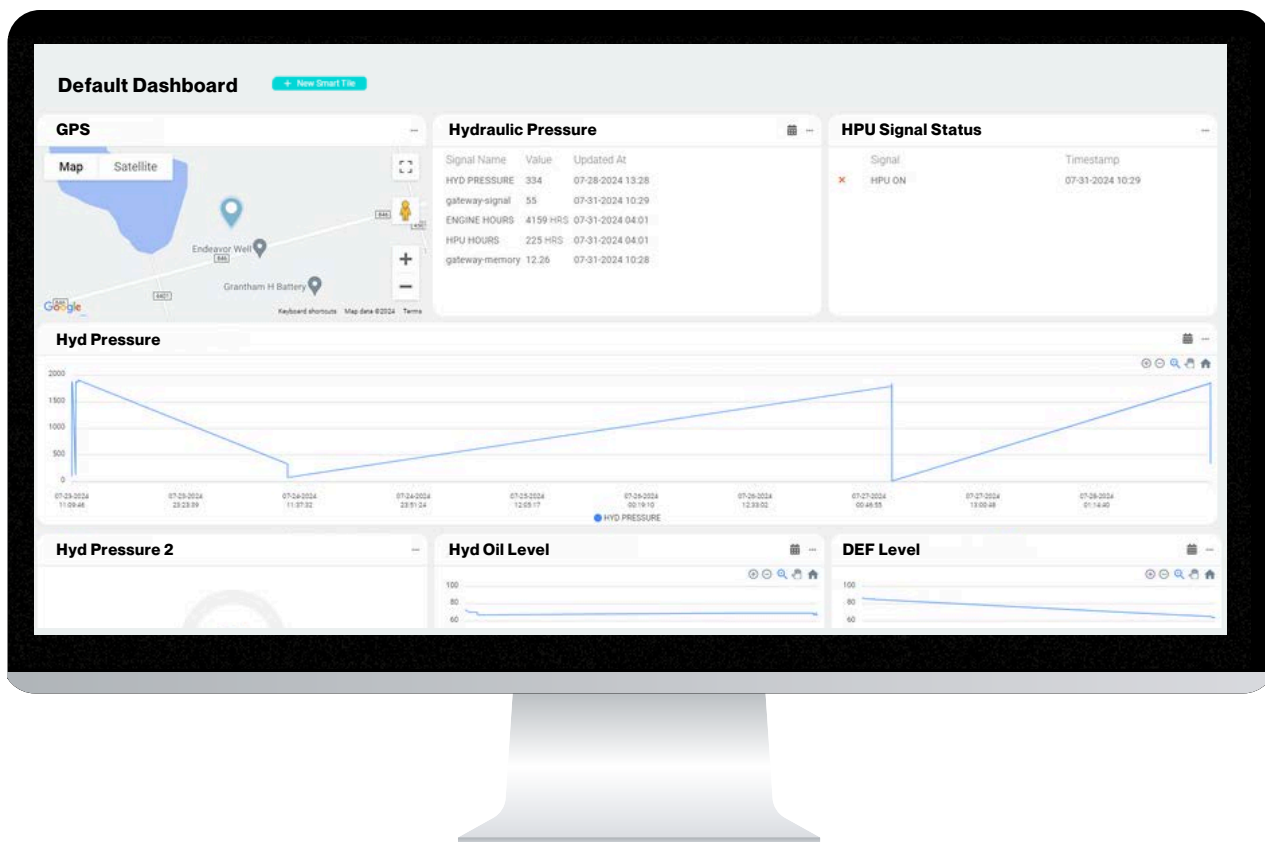
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Elevāt Web Application - Fracturing Equipment Monitoring