

# CASE STUDY: COMPREHENSIVE NETWORK DOCUMENTATION UNLOCKS SAFE MODERNIZATION AT A LEGACY GAS-PROCESSING FACILITY

## What We Did

An aging gas-processing plant that was expanded piecemeal since the 1980s, was preparing for a control-room overhaul but possessed no authoritative drawings of its SCADA or business networks. Vendor add-ons, unmanaged hubs, and ad-hoc serial gateways sprawled across six buildings; even basic questions such as “Which switch feeds the flare PLC?” produced contradictory answers. Without clear visibility, any migration threatened extended outages, safety-system blind spots, and uncontrolled schedule overruns.

Provision Infotech sent a three-person team to the site for a focused, three-day assessment. The facility's existing network records were outdated and incomplete, so our team reviewed what was available and conducted a full walk-through of the plant to physically inspect the equipment. They documented how everything was connected, tested each cable, and identified equipment that was no longer in use or improperly set up. Each device was labeled, photographed, and added to a live inventory list stored in the cloud.

From this, we created a detailed set of diagrams showing exactly how the network was built—from high-level layouts down to individual cable connections. These documents made it easy to spot vulnerabilities, unused capacity, and areas that didn't meet current security standards. For the first time, the facility had a clear, accurate picture of its entire network—critical groundwork for any future upgrades, troubleshooting, or compliance efforts.

Immediate value followed. Planned cutover windows for the new control room dropped from 48 hours to 16 after ghost cables and redundant loops were eliminated and bid packages could be scoped with 20% tighter cost contingencies. Strategically, the documentation became the foundation for a full DCS modernization, and the client awarded Provision the prime integration contract based on proven insight and data accuracy. By converting decades of tribal knowledge into actionable artefacts, Provision Infotech turned a modernization risk into a structured, low-risk roadmap for the plant's next 20 years of operation.

## Highlights

### Complete Network Visibility in 3 Days

Provision's on-site assessment uncovered and documented decades of undocumented network sprawl, converting outdated and conflicting records into a precise, cloud-based inventory with labeled, photographed, and verified assets.

### 66% Reduction in Planned Cutover Downtime

Through the elimination of ghost cables and redundant loops, the facility cut its control-room migration window from 48 hours to just 16 - dramatically reducing risk, downtime, and cost.

### 20% Tighter Cost Contingencies

Accurate documentation allowed vendors to scope bids with confidence, improving budget control and reducing the risk of unexpected expenses during implementation.

**Ready to see  
these results for  
your business?**



# Empowering the Energy Industry Through IT & OT Excellence

We bridge the gap between corporate IT and front-line operational technology (OT), delivering reliable, hands-on, facility based secure technology solutions that keep Western Canada's energy infrastructure operating safely and efficiently.

## Who We Are

Provision Infotech has supported energy producers across Alberta, British Columbia, and Saskatchewan since 2015. Our team brings together corporate IT engineers and deep OT expertise, safety-certified field technicians, making us equally effective in head offices, control rooms, and remote well sites.

## What We Deliver



### OT & IT Specialists

One team that speaks both languages.



### Certified On-Site Support

Our COR-certified, ISNetwork & ComplyWorks-verified field technicians are embedded onsite in remote field locations, providing consistent, boots-on-the-ground support



### Cybersecurity & Risk Management

Threat hunting, patching, and compliance for industrial networks assessments.



### Control & Industrial Networks

Design, build and maintenance for SCADA, PLC, and HMI.



### Secure Remote HMI Access

Encrypted, role-based connectivity for dispersed operations.

## Why Choose Us

### Purpose-built IT & OT team

A uniquely blended skill-set designed expressly to support both corporate offices and field operations for Western Canadian energy producers

### Aligned with your production goals

We plan and act to minimize downtime, control costs, and respond rapidly to critical field issues and emergencies.

### Deep dual-domain expertise

Seasoned in enterprise servers, networks, and cybersecurity and in SCADA, PLC, and control-system environments - bridging the gaps between IT & OT.

### Proven Field Experience

Delivering real-world and hands-on reliability across 300+ Western Canadian sites.

### Safety you can Trust

Comprehensive HSE program, COR certification and full ComplyWorks & ISNetwork registration; every technician holds H2S, First Air, CSO, WHIMIS, and more.