



APEX
AUTOMATION



Remote Operations Center



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APEX ROC

A Centralized, Intelligent Solution for Multi-Site Operational Control

The Apex ROC is a comprehensive, future-ready solution that allows industrial clients to centralize and streamline operations across multiple facilities. Designed to enhance situational awareness, improve safety, and reduce operational costs, the ROC provides real-time control, remote access all from a single, secure command center.



The Challenge:

Industrial organizations today manage increasingly complex operations that span multiple remote locations. Site visits for monitoring, troubleshooting, or system control introduce safety risks, travel costs, and delays in response times. Operators rely on siloed systems and non-standardized interfaces, making it difficult to maintain consistency and efficiency across assets.

Key operational challenges include:

- Limited visibility across remote sites
- High costs associated with on-site staffing and travel
- Difficulty standardizing operations across facilities
- Inefficient alarm management and inconsistent user interfaces
- Security risks associated with remote access
- Limited operational flexibility and reliance on aging infrastructure

The Apex Solution: APEX ROC

The Apex Remote Operations Center (ROC) addresses these challenges by consolidating real-time data, control, and communications into one centralized platform. Apex leverages its expertise in Automation, communication infrastructure and cybersecurity to design custom ROC environments that are scalable, secure, and aligned with each client's operational goals.

Whether managing oil production facilities, gas pipelines, water treatment plants, or underground mines, the Apex ROC allows operators to monitor, control, and optimize processes across all sites from a single, operator-friendly interface.

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Key Features and Capabilities

1 **Centralized Virtualized Architecture**

Built on Rockwell PlantPAx, ThinManager, and Stratus fault-tolerant servers, the Apex ROC virtualizes traditional OT infrastructure into a redundant and scalable platform. The Apex ROC includes redundant PlantPAx Virtualized Servers to support seamless operations across all assets.

2 **Secure Remote Access**

Powered by Fortinet cybersecurity solutions, operators can access systems securely using thin clients from any approved location. Fortinet FortiGate firewalls provide VPN access with multi-factor authentication and segmentation for operational security.

3 **Communication & Collaboration Tools**

Integrated systems like TRBOnet, VoiceMeeter, and Motorola radios enable seamless team communication and remote coordination, replicating site-level collaboration at a centralized location.

4 **Intelligent HMI & Alarm Management**

ISA101-compliant graphics developed in FactoryTalk View SE provide intuitive process visualization and standardized alarm response workflows. Operators have reported easier alarm prioritization and quicker situational awareness.

5 **Real - Time Data & Historical Analytics**

An enterprise historian aggregates and stores process data, enabling in-depth analysis, KPI tracking, and decision support. The ROC includes Rockwell FactoryTalk Historian SE and OSIsoft PI System integration for expanded capabilities.

6 **Multi-Protocol Connectivity**

Connects with SCADA, PLC, and DCS systems across Modbus, OPC UA, Ethernet/IP, and other protocols.

7 **Operator-Focused Design**

The ROC was ergonomically designed for optimal operator efficiency, including sound attenuation, adjustable lighting, ergonomic desks, and strategically placed displays for 24/7 use. This directly contributes to improved operator morale and performance.

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Industries and Applications

The Apex ROC supports diverse industrial sectors requiring centralized oversight:

- Oil & Gas: Thermal facilities, compressor stations, pipelines
- Water & Wastewater: Distributed treatment and pumping networks
- Mining & Heavy Industry: Remote operations and critical infrastructure
- Power & Utilities: Renewable energy, substations, and dispatch centers

Success Story

Apex partnered with a client to design and implement a fully integrated ROC solution that consolidated 13 remote facilities into a single control center.

Results Delivered:

- Reduced field travel and operational overhead
- Managed over 7,500 I/O points per operating console
- Improved alarm visibility and operator efficiency
- Elevated operator morale and work-life balance
- Standardized HMI and control strategies across all facilities



Built by Apex. Powered by Expertise.

Apex Automation brings together its Engineering, OT Systems & Security, Systems Integration, and Field Services teams to deliver a robust and future-focused ROC solution. With experience across platforms like Rockwell, Fortinet, ThinManager, and Stratus, Apex ensures your control center is customized to meet your unique operational needs.

Our in-house team has experience designing not just the digital backbone of the ROC, but also the physical layout. This ensures a productive and sustainable 24/7 operational environment.