



NETWORK OPERATION & SUPERVISION CENTER



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The Network Operations & Supervision Center (NOSC) is a centralized platform for monitoring and managing Telecommunications, IT, Power Supply, Electrical & Mechanical (E&M) and Operational Systems across various infrastructures. It provides 24/7 visibility by collecting alarms, performance data, and system events from multiple subsystems.

By integrating monitoring, alarm management, and reporting into a single platform, NOSC enables fast anomaly detection, efficient response coordination, and reliable, uninterrupted operations with real-time situational awareness.



Network Monitoring

Continuous monitoring of Telecommunication, IT, Power Supply, E&M and Operational System infrastructure.

- Real-time monitoring of network devices and services
- Detection of faults, outages, and abnormal events
- Network traffic analysis and anomaly detection



Performance & Resource Management

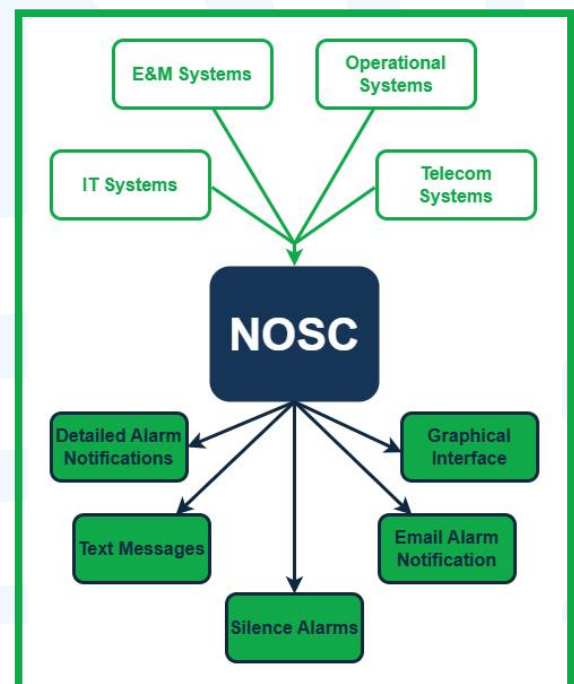
Monitoring the efficiency and operational health of all network elements.

- Performance monitoring of network infrastructure
- Resource utilization analysis
- Network health monitoring and system diagnostics
- Identification of potential bottlenecks and failures
- Optimization of operational network

Visualization & Operational Control

Providing operators with comprehensive situational awareness.

- Graphical dashboards and monitoring interfaces
- Videowall visualization for multi-system monitoring
- Real-time maps, charts, and alarm windows
- Integrated monitoring of multiple subsystems
- Operational coordination and decision support



Alarm & Event Management

Centralized management of alarms and operational events.

- Real-time alarm detection and notification
- Alarm classification and prioritization
- Event logging and historical tracking
- SMS and email alarm notifications
- Alarm visualization through dashboards and interfaces

Features

- Centralized Network Monitoring
- Real-time Alarm Management
- Telecom & IT & Power Supply & E&M & Operational System Integration
- Videowall Visualization
- Data Visualization Dashboards
- Automated Notification System (SMS / Email)
- System Health Monitoring
- Event Logging & Historical Data Storage

Functions

- Continuous Monitoring of Network Devices
- Performance & Resource Analysis
- Alarm Detection, Classification & Prioritization
- Fault & Anomaly Detection
- Network Traffic Analysis
- Reporting & Data Analytics
- Operational Coordination Support
- Decision Support for Operators

Advantages/Benefits

- Improved operational visibility
- Faster detection of network faults
- Centralized alarm management
- Enhanced service reliability
- Faster response to system incidents
- Improved coordination between operational teams

Integrations

- Supports industry-standard protocols (SNMP, REST API, TCP/IP)
- Scalable and flexible integration architecture

Configurations

- Network Infrastructure (Routers, Switches, Firewalls)
- Servers & Storage Systems
- Monitoring & Data Acquisition Devices
- Operator Workstations & Videowall System
- Communication & Integration Infrastructure
- UPS Power Infrastructure