PRODUCT SHEET

Advantal™

ADVANTAL'S NETWORK MANAGEMENT SYSTEM (NMS)

NMS Platform for Intelligent Network Operations

Overview

Advantal's Network Management System (NMS) is a comprehensive, enterprise-grade platform designed to provide unified visibility, control, and automation across IT and network infrastructures. The solution ensures proactive monitoring, automated workflows, efficient incident resolution, and continuous optimization, empowering organizations with real-time insights and operational resilience.

SOLUTION DESIGN & ALIGNMENT

Requirement Assessment & Implementation

The system has been fully assessed, designed, and implemented to align precisely with enterprise workflows and operational requirements across NMS components.

Robust Architecture

Built on a secure and scalable framework, the solution integrates NMS for real-time network monitoring and control—ensuring high performance, fault tolerance, and operational reliability.

CYBERSECURITY & PERFORMANCE MONITORING

Workflow Performance Tracking

Integrated KPI-driven dashboards track workflow performance, identify inefficiencies, and highlight opportunities for improvement.

Flexible Reporting

The platform supports custom report generation, including SLA, performance, utilization, and shift reports—configurable for specific organizational use cases.

Secure Data Flow & Monitoring Protocols

End-to-end security is ensured through encrypted data flows, robust monitoring protocols, and automated alert mechanisms for potential breaches or anomalies.

OPERATIONAL READINESS

Testing, Validation & Training

The solution has undergone complete testing and validation, with user training provided to ensure seamless adoption and smooth day-to-day operation.

Continuous Monitoring & Updates

Continuous monitoring and regular updates ensure consistent performance, security, and compliance with evolving requirements.

Documentation & Support

Comprehensive documentation, operational manuals, and dedicated support ensure long-term stability and ease of maintenance.

TOOL INTEGRATION

Tool Setup & Integration

NMS tools are fully deployed, integrated, and operational, ensuring seamless functionality across all network and service layers.

CMDB & KMDB

A fully functional Configuration Management Database (CMDB) and Knowledge Management Database (KMDB) ensure accurate asset tracking and centralized knowledge sharing.

Asset, Configuration & Inventory Visibility

The platform supports centralized asset and configuration visibility across servers, workstations, and network devices, including collection and maintenance of system and device information for operational management. It supports inventory discovery for IP-based assets, structured asset records, historical tracking, and extensible attributes to capture organization-specific infrastructure details. Integrated asset visibility improves monitoring accuracy, service impact analysis, and operational control.

Traffic & IP Resource Visibility

The platform can support enhanced visibility into network traffic and IP resources through flow-aware monitoring, bandwidth usage analysis, and integration-led IP visibility across managed environments. This may include identification of major bandwidth consumers, protocol and application-level traffic trends, grouped IP visibility, and role-based access to relevant operational views, subject to enabled capabilities and deployment scope.

MONITORING CAPABILITIES

SNMP-Based Monitoring

Granular monitoring capabilities are enabled through SNMP-based polling for comprehensive visibility into network devices and performance.

Discovery & Topology Visualization

The solution supports flexible onboarding and discovery of monitored assets through supported discovery methods, including IP-based discovery, range-based discovery, and bulk import options for faster infrastructure enrollment. It can also provide web-based topology and diagrammatic visualization capabilities to represent monitored infrastructure in logical and operational views. Visual representations may include configurable objects, vendor-specific elements, and user-defined views to support easier understanding of multi-vendor environments.

Multi-Protocol Monitoring & Threshold-Based Detection

The solution supports monitoring across heterogeneous environments using standard protocols such as SNMP, HTTP, ICMP/Ping, WMI, REST API, SSH, and other supported interfaces as required. It supports configurable static and dynamic thresholds for utilization, performance, and availability parameters, enabling timely detection of abnormal conditions, infrastructure issues, and operational degradations.

Extended Monitoring Coverage

The platform supports flexible monitoring approaches across physical, virtual, and distributed environments, using agent-based or agentless methods as applicable to the deployment scope. Monitoring can be extended to include link health and availability visibility, including primary and alternate communication paths, as well as performance indicators such as response time, latency, packet loss, jitter, and related service quality metrics. Support can also be provided for virtualized environments, including virtual machines, hypervisors, and clustered infrastructure, based on deployment requirements.

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Infrastructure & Application Monitoring

Real-time monitoring covers infrastructure metrics such as disk space, CPU, RAM, I/O utilization, and application availability (GET/POST checks).

Event Classification & Correlation

Event classification and correlation mechanisms streamline incident prioritization and enable faster root cause analysis.

Event Classification, Noise Reduction & Correlation

The platform supports event classification, correlation, and noise reduction mechanisms to help operations teams focus on actionable events and reduce operational overload. These capabilities improve incident prioritization, root cause visibility, and response effectiveness across monitored environments.

AUTOMATION & TICKETING

Intelligent Alert Prioritization & Notifications

Alerts and incidents can be assigned severity levels and routed to designated users or teams through configurable notification and escalation policies aligned with operational requirements. Supported notification mechanisms include email, SMS, SNMP-based alert forwarding, and other integrated alert delivery methods as applicable to the deployment environment.

Ticket Creation & Notifications

Supports both manual and automated ticket creation. Integration with mail and SMS gateways ensures instant notifications and updates.

Advanced Workflow Features

Dynamic workflows enable features such as automatic ticket creation based on email triggers, auto-closure, reopening, satisfaction scoring, attachment management, and SLA-based resolution tracking.

Configuration Workflow Orchestration & Approval Control

The platform supports workflow-driven operational automation for controlled configuration and service actions across managed environments. Approval-based workflow controls can be applied to defined operational changes to support governance, accountability, and controlled execution in line with enterprise procedures.

Event-Based Task Automation

Event-triggered automation minimizes manual intervention and accelerates response times.

Automated Event Generation

The platform supports automated event generation to enable proactive monitoring and system resilience.

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SOC & INTEGRATION

SOC Monitoring & Access Control

Security Operations Center (SOC) integrations provide centralized monitoring and access control. Dedicated user and support access are provisioned for security and operational management.

Interface & Link-Level Visibility

The platform supports visibility into monitored network interfaces, links, and related operational parameters to improve understanding of bandwidth usage, connectivity state, and infrastructure performance trends across managed environments.

Centralized Operational Dashboard

A centralized dashboard provides correlated visibility into performance, connectivity, resource utilization, operational status, and event conditions across servers, workstations, network devices, and distributed monitored infrastructure. This unified view enables faster identification of service impact, infrastructure issues, and operational anomalies.

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