

ADVANTAL ELEMENT MANAGEMENT SYSTEM (EMS)

Unified Monitoring, Service Visibility and Operational Control








Advantal Element Management System (EMS) is an integrated, modular and scalable platform for centralized monitoring, service visibility, configuration governance and operational control across multi-vendor, multi-technology environments. It is designed for enterprises, service providers and mission-critical infrastructure requiring unified monitoring across network elements, servers, applications, databases and service-linked infrastructure.

The platform supports heterogeneous environments including Windows, Linux, UNIX, virtualization platforms, SDN environments, databases and distributed infrastructure. Its architecture enables organizations to unify monitoring, service assurance, asset-linked operations and administrative governance in a single management framework.

Built for centralized and distributed deployments, Advantal EMS supports scalable growth, high availability, operational resilience and integration with broader enterprise tools and workflows.

WHY ADVANTAL ELEMENT MANAGEMENT SYSTEM(EMS)

Advantal EMS helps organizations:

-  centralize monitoring across network, server, application and database layers
-  support both agent-based and agentless monitoring models
-  automate discovery and maintain near real-time topology visibility
-  improve service continuity through fault, performance and configuration management
-  connect EMS operations with ITSM, CMDB, asset and SLA workflows
-  strengthen control through RBAC, secure credential handling and audit trails
-  integrate with third-party tools, SIEM platforms and enterprise workflows through APIs and notifications

CORE PLATFORM CAPABILITIES

Integrated EMS Platform

Advantal EMS provides an integrated, modular and scalable platform covering Network Monitoring, Server and Application Monitoring, Database Monitoring, ITSM-linked workflows and SLA Management. It supports deployment on latest stable versions of Windows and Linux platforms.

The solution supports secure deployment with AES-256 aligned protection for data in transit and at rest, with support for FIPS 140-2 or higher security standards and cryptographic assurance aligned to recognized frameworks such as FIPS 140-2, FIPS 140-3, Common Criteria or ISO/IEC 19790, as applicable to the deployed architecture.

Heterogeneous Monitoring

The platform supports end-to-end monitoring across Windows, Linux, UNIX, virtualization, SDN, database, application and network environments. Monitoring can be implemented through both agent-based and agentless mechanisms using lightweight agents, SNMP, WMI, ICMP, SSH and API-driven methods. IPv4, IPv6 and dual-stack environments are supported.




Discovery and Topology


Advantal EMS supports auto-discovery using AD, DNS, SNMP, ICMP, WMI, SSH and API-based discovery. It also supports continuous discovery with near real-time topology updates for dynamic infrastructure visibility and dependency awareness.

FAULT, PERFORMANCE AND CONFIGURATION MANAGEMENT

Advantal EMS delivers integrated Fault, Performance and Configuration Management aligned to FCAPS-driven operational practices. It enables centralized visibility, event handling, performance tracking and configuration governance across distributed environments.

Fault and Event Management

-  real-time alarm capture, filtering and correlation
-  severity-based classification and root-cause support
-  cross-domain event correlation across network, systems and applications

 historical event logging and operational reporting

Performance Monitoring

The platform monitors CPU, memory, disk, I/O, packet loss, latency, availability and interface utilization through dashboards, alerts and reports. It also supports traffic analysis using NetFlow, sFlow, jFlow and IPFIX for operational visibility and capacity planning.

Configuration Governance

Advantal EMS supports configuration change detection and compliance monitoring across multi-vendor devices, along with secure configuration backup, version comparison and rollback capabilities.

ITSM, CMDB AND SERVICE ASSURANCE

Advantal EMS can be deployed with integrated IT Service Management capabilities aligned to ITIL v4 processes. Supported modules include Incident, Problem, Change, Release, Knowledge and Asset Management.

The platform supports a single CMDB integrated across ITSM and Asset Management functions, helping maintain configuration context, service relationships and operational consistency. The service desk environment supports a minimum of 20 helpdesk licenses and is expandable.

Advantal EMS includes SLA monitoring with violation alerts and historical SLA tracking, along with comprehensive reporting, customizable dashboards and analytics for operational and leadership visibility.

SECURITY, INTEGRATION AND AUTOMATION

The platform supports Role-Based Access Control with department-level segregation, along with secure authentication, encrypted communication, session logging, access history and audit trails. It supports SNMP v1, v2c and v3, along with secure credential vault-aligned administration.

Advantal EMS provides REST API support for integration with third-party tools, enterprise systems and automation frameworks. It supports email, SMS and webhook-based alert notifications, virtual assistant or chatbot support for service requests via web and mobile, and centralized log integration with SIEM compatibility.

LIFECYCLE, ASSET MANAGEMENT AND DEPLOYMENT

The platform supports lifecycle management including provisioning and patching, along with consolidated Asset Management covering hardware and software lifecycle visibility.

Advantal Element Management System is designed for scalable enterprise deployment with distributed collectors and high availability. It supports centralized and distributed architectures, multi-site deployment models, virtualized environments and container-ready infrastructure.

Minimum 5 years OEM support with upgrade entitlement and SLA-defined response times is provided as part of the solution support framework.

WHY ADVANTAL

Advantal Technologies delivers enterprise-grade monitoring and operations platforms for complex environments that require visibility, resilience, governance and scale. With strengths in infrastructure management, integration, cybersecurity and enterprise operations, Advantal helps customers centralize monitoring, improve service continuity and support long-term operational assurance.

CONTACT FOR SUPPORT



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