Improving Service Delivery with End-to-End (E2E) Management

End-to-End Management Challenge
A device in a large hybrid network composed of satellite, VSAT, microwave, wireless and IP equipment fails and alarms start flashing across several different management systems that operate independently in silos. What happens now? How do you avoid frustrating service disruptions to customers, identify the root cause quickly and remediate the problem effectively?

Because hybrid networks are composed of a wide-range of devices, they are often monitored with several different management tools. They are also managed independently of associated terrestrial-based transport networks that are essential to service delivery. With such diverse, large-scale, and complex networks, it becomes very challenging to manage availability and service delivery end-to-end.

To address this challenge, Kratos delivers an End-to-End (E2E) Management Suite that assures the availability, reliability, and security of communications between distributed end points across heterogeneous transports. Our E2E Management Suite optimizes network operations, maximizes bandwidth usage, accelerates root cause identification, and improves visibility across hybrid networks.

Why Kratos’ End-to-End (E2E) Management Suite?
Our E2E Management Suite solves the three key challenges to effectively managing hybrid networks. It integrates IP, remote site, VSAT and carrier management systems seamlessly in a single solution that scales at an enterprise level and can be deployed cost-effectively. The Suite ties equipment to services that are transported on the network to effectively manage service delivery. This enables operators to view dashboards displaying the services running on the network, alerting them of the services affected by equipment failures, and reporting on the health and performance of the entire network.

In developing our E2E Management Suite, Kratos relied on its unique satellite, IT experience and capabilities including:

- Deep subject matter expertise - 30 years of experience with IP, non-IP, and hybrid environments that is essential to effectively managing networks end-to-end,
- Powerful integration capabilities - combined industry leading Monitor and Control (M&C) and Carrier Monitoring and Interference detection products with an enterprise-scale Network Management System (NMS) to form a single powerful solution for end-to-end management, and
- Combined industry best practices – leveraging best practices, management methods and processes from both the satellite and IT industry in a comprehensive approach to increase operational efficiency, improve scalability, and reduce costs.

Key E2E Management Capabilities
Kratos’ E2E Management Suite leverages a unified architecture to deliver three key capabilities for managing hybrid networks.

Integrated Data Acquisition
The solution connects to any device or element management system on the network. It collects a range of data from IP, VSAT, and non-IP devices and normalizes the information, so it can be fed into a Complex Event Processing (CEP) engine that enables real-time intelligence.
Real-Time Intelligence
At the real-time intelligence layer, alarms and events are correlated, filtered, analyzed, and responses can be automated. In addition, fault and performance management supports operational reporting against established SLAs.

Dynamic Presentation
In the dynamic presentation layer, executive dashboards and reports display end-to-end service and performance metrics. This helps operators analyze and optimize network operations in real-time as well as provide historical analysis and reporting on the performance of the network as well as service availability.

An Integrated, Scalable, and Economical E2E Solution
Our E2E Management Suite is based upon three market-leading products:

NeuralStar®, the enterprise-class network management product used by some of the most complex and security-conscious networks in the world,

COMPASS®, used at thousands of installations for Monitoring and Control (M&C), especially of RF, microwave and other non-IP equipment, and for remote site management, and

Monics®, the industry’s leading carrier management, signal characterization and interference detection solution.

Each product is available as a stand-alone solution for discrete management tasks. Together the products operate as a unified E2E platform for end-to-end management and systems control. Fed by COMPASS, Monics, and other element management systems, NeuralStar serves as a Manager of Managers (MoM) that unifies the E2E management platform. It delivers end-to-end visibility and service management across hybrid networks.

Improving Service Delivery with E2E Management
The Kratos E2E Management Solution delivers unrestricted visibility and service transparency from source to destination across circuit (satellite/microwave), carrier, and packet (IP) networks. With unified executive dashboards and comprehensive reports, service and performance metrics can be analyzed across the entire hybrid network to optimize operations and service delivery.

Our E2E Management Solution helps organizations to:
- Manage service and performance pro-actively to avoid impact to users
- Optimize network operations and improve Quality of Service (QoS)
- Reduce down-time and maximize Service Level Agreements (SLAs)
- Lower costs and maximize bandwidth usage across the entire network
- Scale to manage large networks with tens of thousands of devices across a large geographic footprint
- Improve visibility across the enterprise to accelerate root cause identification and analysis
- Decrease the Mean-Time-to-Repair (MTTR) by using control capabilities to accelerate the remediation process
- Save time by automating workflows for set-up and tear down of services

Learn More About E2E Management
For more information about the Kratos’ E2E Management solution, COMPASS, Monics or NeuralStar, please call us at 1-888-388-3669, email Sales@KratosNetworks.com, or visit www.KratosNetworks.com.