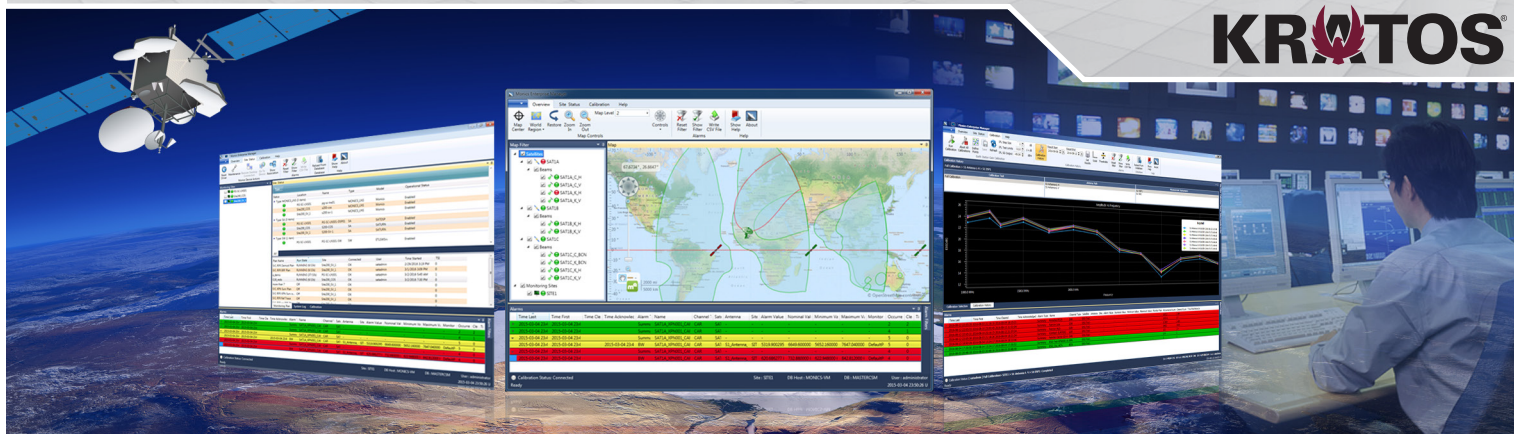


Monics® Enterprise

Enterprise Grade Carrier Management & Interference Identification



Mitigating interference is becoming more difficult and critical than ever before in today's rapidly changing environment. Satellite congestion is happening with hundreds of geostationary satellites in orbit and the increasing numbers of medium and low earth satellites and High Throughput Satellites (HTS) being launched. There are also millions of VSAT terminals and the growing use of mobile applications that increase the potential for interference.

Monics® Enterprise is the newest addition to the Monics suite of products and extends the monitoring capabilities to address the increasing scale and complexity of today's satellite environment.

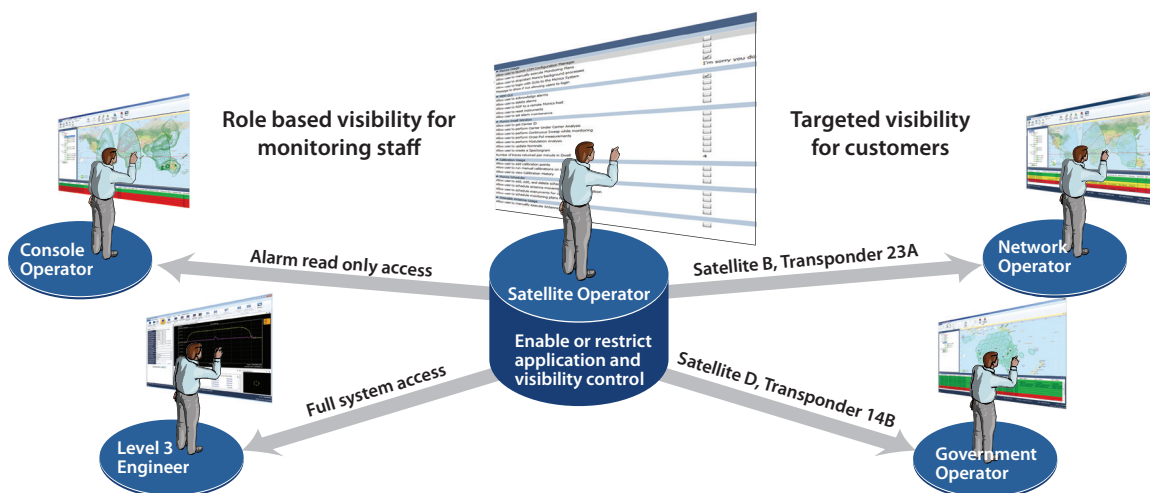
Optimize Workforce Productivity and Enhance Security with Role Based Views

In large distributed operations, monitoring staff are often departmentalized and have diverse roles. Monics Enterprise delivers User Access Control (UAC) to provide targeted role based access for diverse operations and engineering staff. It allows a system administrator to enable or restrict Monics system access based on roles with 35 application feature control points, measurement instrument prioritization and control of space segment visibility across the enterprise.

This enables each Monics user to only have the visibility and control needed to perform their specific responsibilities – keeping operators focused on their own duties and tasks. For example, a console operator could be granted different permissions and

Gain new insight into TDMA network bandwidth usage

- Classify TDMA networks by performing a Frequency Scan analysis on transponder or on bandwidth
- Characterize channel performance based on TDMA system type, EIRP, ES/No, bandwidth and other measurements
- Accelerate troubleshooting by identifying customer channels that are errant or interfering with bandwidth
- Improve workflow by defining and saving complete TDMA networks in Monics database



▲ With centralized user access control, Monics Enterprise provides targeted visibility and permissions for staff and customers.

rights compared to a level 1 engineer. Even different levels of engineers could have varying permissions and rights.

- Enhances security – control system, application, features and space segment access across the enterprise
- Accelerates troubleshooting – keep operators focused on specific responsibilities to address issues quickly
- Optimizes application resources – control the inefficient use of system resources (i.e. using continuous sweep too often)

Enhance Customer Visibility by Providing Controlled Monitoring Access to Satellite Bandwidth

Customers are demanding more insight into the satellite bandwidth and services they are purchasing from satellite operators. To address that issue, Monics Enterprise enables a satellite operator to deliver controlled access to real-time monitoring and analysis of satellite bandwidth for customers.

- Provides new revenue opportunities for satellite operators by offering new value in the form of Monics system access and added services for customers
- Delivers customers real-time visibility into the health of purchased bandwidth

Reduces Time from Issue Recognition to Resolution with Map Based Displays

RF engineers and operations staff are faced with the increasing complexity of monitoring more satellites, beams and monitoring sites. Monics Enterprise provides an easy to use map based display of monitored satellites, beams and related collateral signals with status of monitoring sites. The intuitive display enables less experienced operators to increase their productivity quickly. This new map based display helps operators:

- Visualize satellite operations across the globe in a single view
- Filter and display actionable alarms by clicking on affected beams
- Move from alarms to signal analysis much faster, within two clicks
- Gain a better visual representation of the relationship of the satellite to the ground areas

Monitor and Visualize Entire HTS Environment in a Single System

With the increasing number of HTS satellites being launched, there is an exponential increase in spot beams that require monitoring. Monics Enterprise empowers operators with easy to use map based visual displays of spot beams across the entire HTS environment.

- Visualize multitude of spot beams
- View beam contours, monitoring sites and associated alarms
- Hide and sort alarms to bring most relevant data forward to accelerate troubleshooting

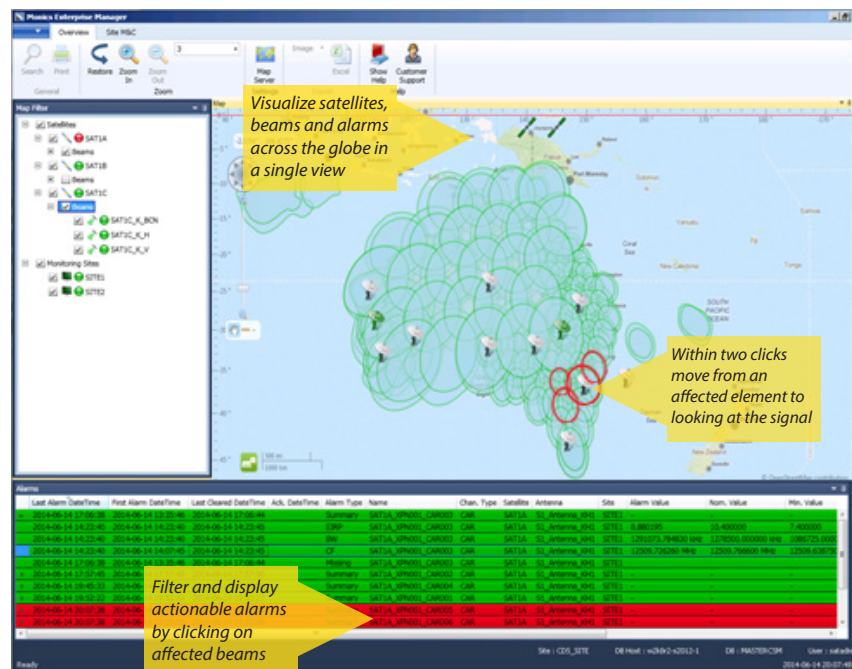
Key Application and Space Segment Controls Include:

Application Control

- Monics
 - Application
- Enterprise
 - Alarms
 - System processes
- Dwell
 - Carrier ID
 - Continuous Sweep
 - Cross-pol
 - Demodulation
 - Instruments
 - Spectrogram
 - Trace Metering
- Calibration
 - Earth Station Gain (ESG)
- Scheduler
 - Application
 - Activities
- Steerable Antenna
 - Antenna assets

Space Segment Control

- Satellite
 - » Beams
 - Transponders: Noise Slots, Carriers, Lease Blocks



▲ Map based displays simplify the monitoring of HTS spot beams, large regional or hemi beams and clearly depict their relationship to the corresponding monitoring sites.