Monics Satellite Carrier Monitoring System
State of the art Signal Characterization, Interference Detection and CSM systems for government agencies, satellite operators, satellite service providers and telecommunications companies.

Perceptive Satellite Operators and sophisticated telecommunication providers select Monics because they want the best quality of service for their customers. Monics can be configured to support monitoring applications as simple as one monitoring site or as expansive as a global network.

Efficient User Interface: Monies user interface is designed to minimize the workforce devoted to monitoring; for example, there are a host of features to minimize false alarms, extensive use of point-and-click operation, automatic monitoring is simple to configure.

Simultaneous Automatic and Manual Monitoring: While the operator is performing a carrier "line-up" or other manual process, the automatic monitoring process continues to evaluate the frequency spectrum. These two processes - automatic and manual - are interleaved to allow one monitoring channel to serve both functions.

Automatic Frequency Plan Monitoring: Automatic monitoring compares the actual frequency spectrum to the expected frequency plan. Integrated with the industry's most popular Transponder Planning software, the actual spectrum and planned spectrum are displayed simultaneously. Monics alerts the operator: when the noise floor or guard bands are abnormal; total transponder power or any segment of the transponder is abnormal.

Automatic Performance Monitoring: Automatically verifies normal carrier and transponder values by comparing actual to expected performance: EIRP, Bandwidth, Center Frequency, Carrier-to-Noise, Modulation Type, Symbol Rate and Eb/No.

Manual Monitoring: During carrier line-up. co-pol and cross-pol carriers are displayed simultaneously, thus carrier are rapidly brought on-line without causing interference.

Open database Interface: Monics can accept frequency planning information from the users database. Changes to the database are immediately sent to the monitoring sites where automatic monitoring can continue using the updated information.

SAT Corporation

SAT Corporation is a trusted source for global satellite communications monitoring, interference detection and geolocation. SAT Corporation, along with leading international satellite industry experts at S-IRG, APSCC and SIA, is committed to developing industry practices and new technologies to reduce the costly effects of unwanted RF interference.

SAT Corporation's products, SAT-DSA®, Monics®, satID®, and SigMon® use patented algorithms, complex science and cutting edge technology to monitor all your satellite frequencies for Quality of Service; identifying anomalies, including secondary signals, and geolocating sources of interference.

For more information please contact:

321 Soquel Way
Sunnyvale, CA 94085
Phone: 408.220.9200
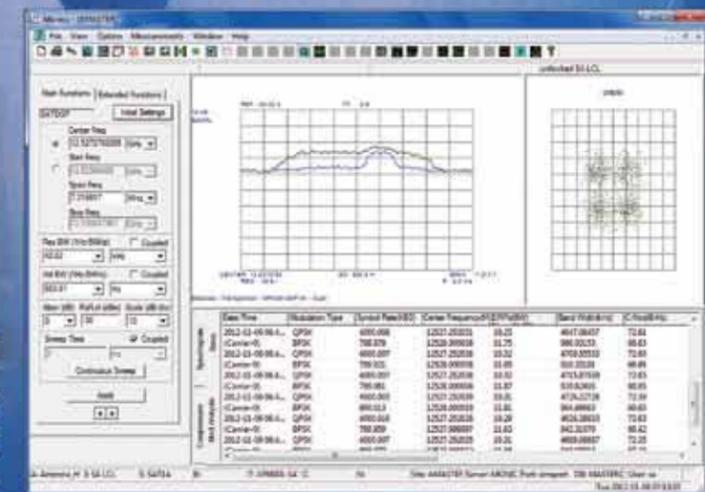sales@sat.com
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MONICS® RF Interference
Detect. Locate. Resolve.

Satellite Carrier Monitoring System
Scalable Networked RF Monitoring

Automatic monitoring and interference detection using advanced measurement instruments and software

SAT CORPORATION
A KRATOS Company

Link Protection and Real-Time Situational Awareness

SAT Corporation's Monics is the industry-leading carrier monitoring system and interference detection system that protects mission critical satellite bandwidth and provides real time situational awareness for both downlinks and uplinks.

Whether fully networked or stand-alone, Monics is in use by numerous government agencies for both tactical and standard operations. Commercially, Monics is used by the majority of the world's largest satellite operators, service providers and telecommunications providers.
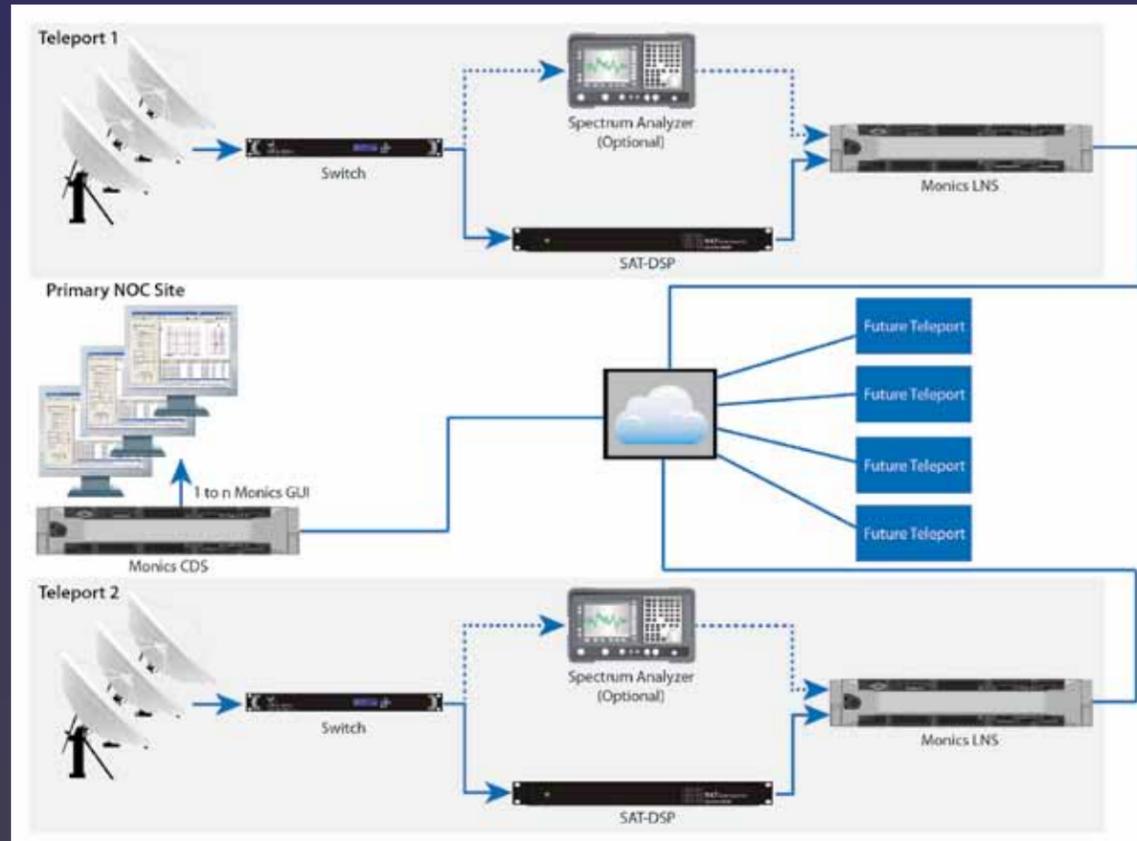

Monics can operate with traditional analog Spectrum Analyzers or SAT's proprietary SAT-DSP that provides, in addition to spectrum RF measurements, time domain measurements with features such as Carrier under Carrier detection, and signal Modulation Analysis.

Scalable to Meet Your Current and Future Needs

Monics is ideal for satellite service providers with one to three remote locations. It provides all of the networked CSM system and interference detection features of SAT Corporation's flagship MonicsNET system and allows customers to choose the exact options which meet their operational needs and budgetary parameters.

MonicsNET is SAT Corporation's flagship Signal Characterization, Interference Detection and CSM system. Full featured, MonicsNET allows the extensive network scalability critical to government agencies, satellite operators, large satellite service providers and telecommunications companies. Monics users with expanding operations may upgrade to MonicsNET at any time protecting their original investment.
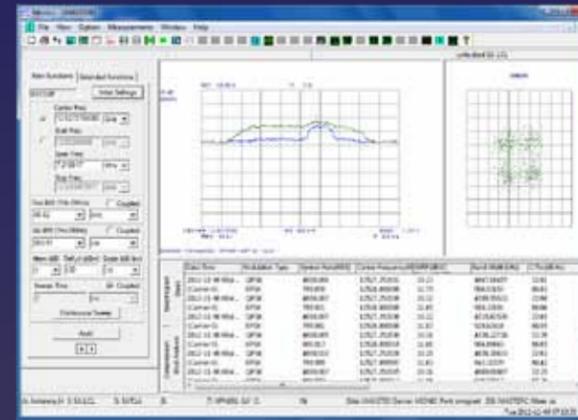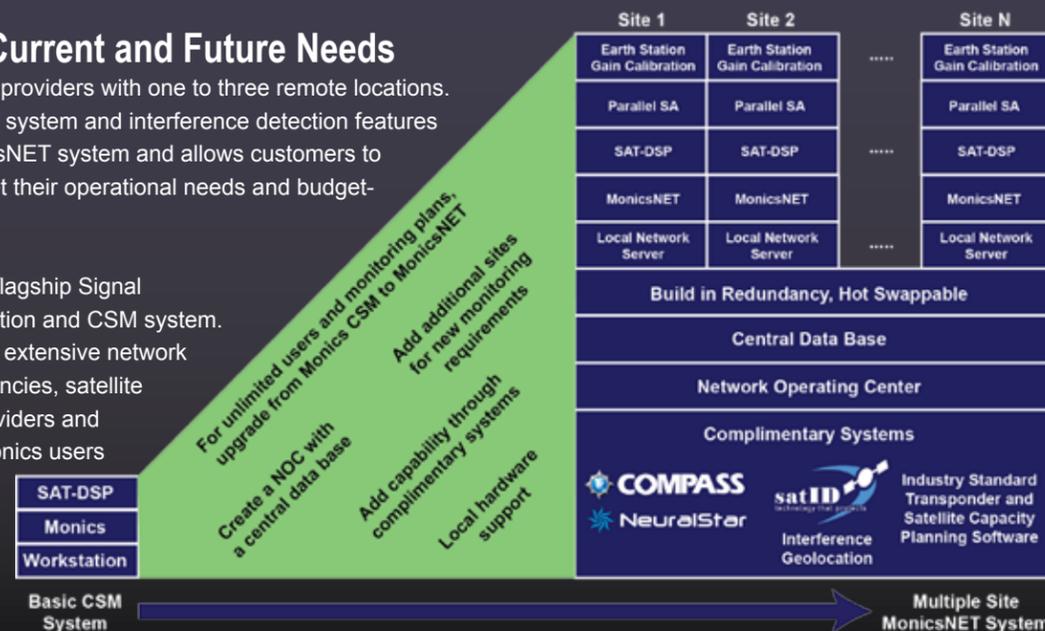
The Monics spectrum analyzer like display is shown with a "Carrier-Under-Carrier" condition. Along with a trace, the main carrier and interfering carrier characteristics including CF, BW, Modulation Type and Symbol Rate can be displayed simultaneously.

Monics Reports

Essential to supervising satellite communications are reports: Tabular and graphic history reports are provided for any measured parameter. In addition, Monics "Archive Viewer" toll replays spectral traces, the interfering carrier's trace and its time-domain characteristics (Modulation type, Symbol Rate and Eb/No).

Feature Comparison	Monics	MonicsNET
Integrated Alarm Panel	Yes	Yes
Noise Slot Measurement	Yes	Yes
Frequency Drift Correction	Yes	Yes
Transponder Surveillance	Yes	Yes
RF Subsystem Type	SA & SAT-DSP[1]	SA & SAT-DSP[1]
Rain Fade Alarm	No	Yes
Monitoring Sites	3[2]	Unlimited
Automatic Monitoring Limit	500 Carriers	Unlimited
RF Measurement Channels	1	Unlimited
Measurement and Trace Storage	1,000,000 Carriers per Site	Unlimited
Simultaneous Monitoring Plans	1	Unlimited
Simultaneous Users	Five	Unlimited
Earth Station Gain Calibration	Option	
Uplink Power Control	Option	
Antenna Pattern Verification	Option	
Newpoint Compass Interface	Option	
Optimal Complan Interface	Option	
Geolocation Interface	Option	
Webwatch	Option	

Notes:
1. SAT Corporations Digital Signal Processor
2. Depends on customer's ability to manage individual sites without adding Central Database server (CDS)