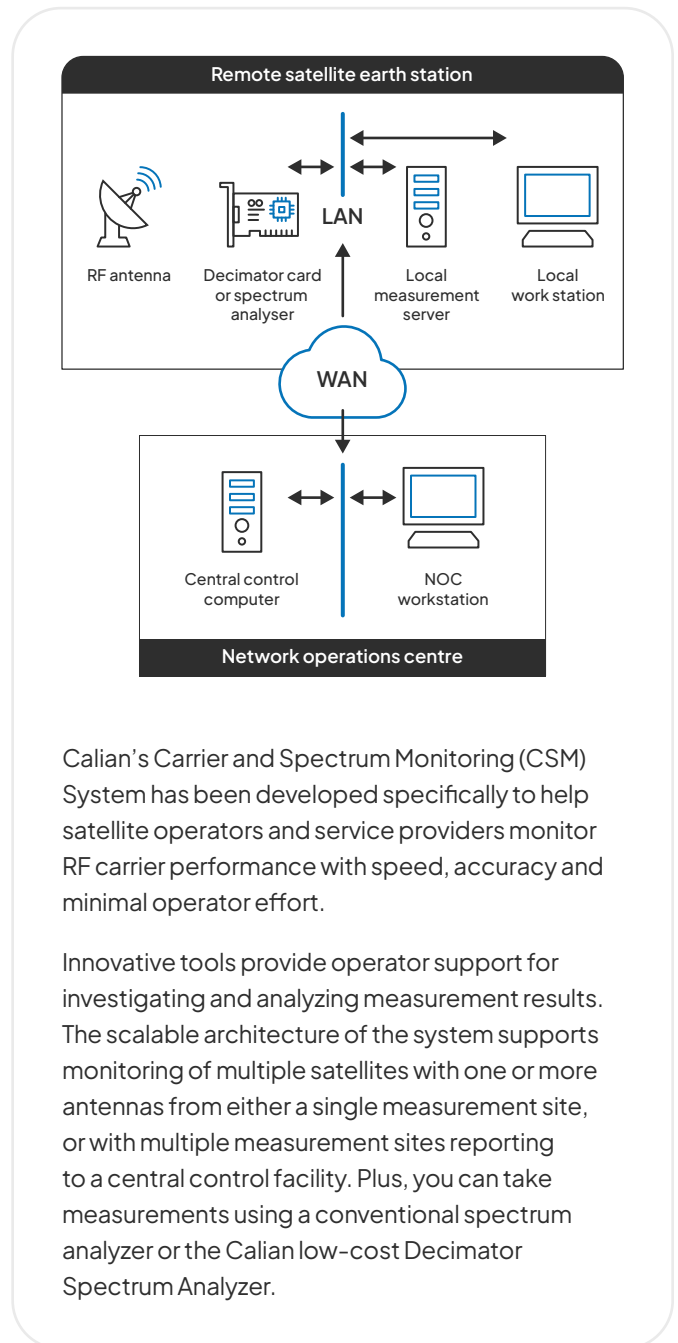
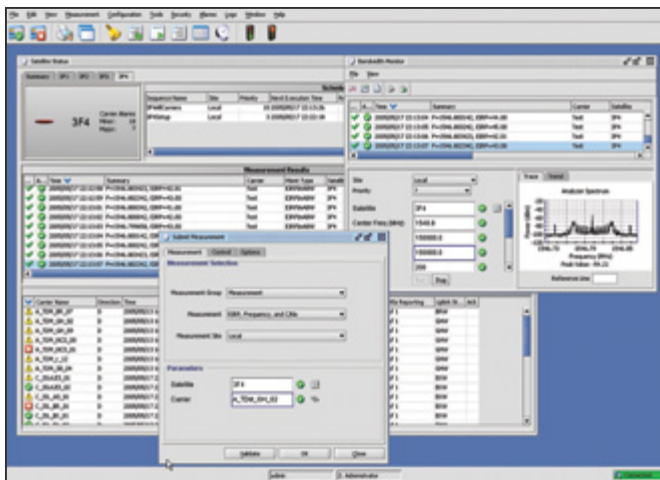


Carrier and spectrum monitoring

Monitor and manage RF carriers efficiently

Calian Carrier and Spectrum Monitoring (CSM) System provides the full set of tools you need to efficiently monitor your network. From automating repetitive measurements to trouble shooting problems, analyzing and reporting results, our CSM System will efficiently monitor and manage your RF carriers.



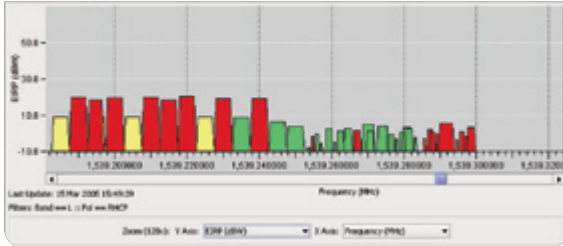
Calian's Carrier and Spectrum Monitoring (CSM) System has been developed specifically to help satellite operators and service providers monitor RF carrier performance with speed, accuracy and minimal operator effort.

Innovative tools provide operator support for investigating and analyzing measurement results. The scalable architecture of the system supports monitoring of multiple satellites with one or more antennas from either a single measurement site, or with multiple measurement sites reporting to a central control facility. Plus, you can take measurements using a conventional spectrum analyzer or the Calian low-cost Decimator Spectrum Analyzer.

CSM operator support tools

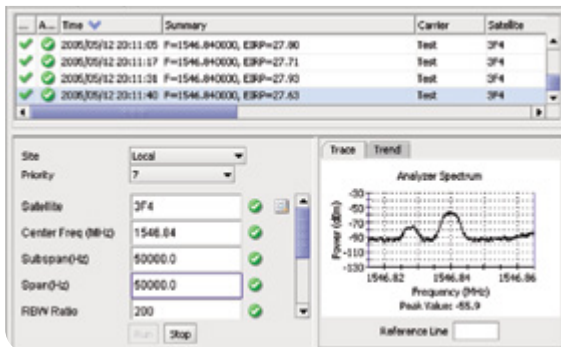
View

- Visualize all of your carriers at a glance
- Zoom in and out for different views
- Use tooltips to see measured values for a selected carrier



Monitor

- Continuously monitor an individual carrier or a specific span of spectrum for anomaly investigation
- Open multiple windows to monitor more than one piece of spectrum



Accessibility

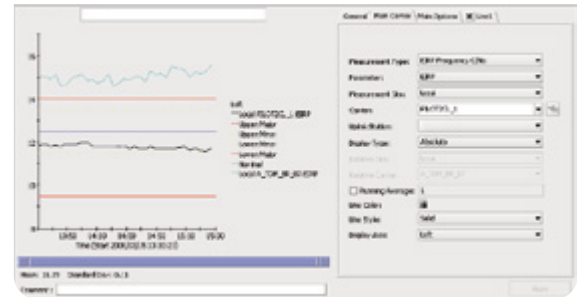
- ODBC access to system tables and measurement results
- SNMP interface to other systems
- Export measurement results
- Detailed reports and plots in pdf format

Additional features

- Logging of system activity and alarms
- Easy-to-use database table editor
- Multiple operator permission levels

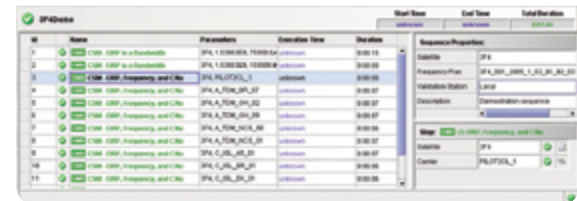
Analyze

- Compare stability of multiple carriers in order to investigate and analyze multiple carrier measurement results



Measure

- Define and execute schedules of measurements required to monitor your network



Measurements

- Satellite noise
- EIRP in a bandwidth
- Carrier EIRP, frequency and C/N0
- Spectrum analysis
- Uplink carrier monitor (optional)
- Power meter calibration (optional)
- Downlink calibration (optional)
- Customized measurement solutions