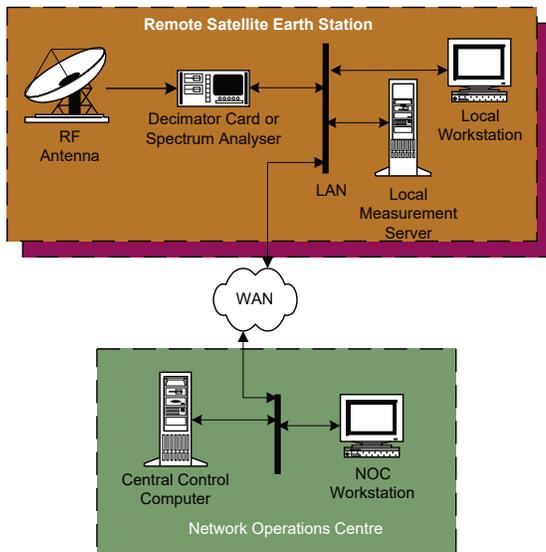
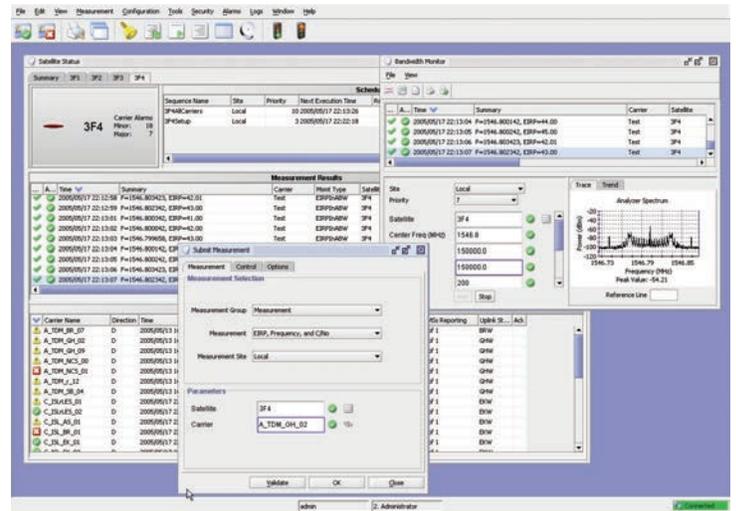


## Carrier & Spectrum Monitoring

Monitor & Manage RF Carriers Efficiently

Calian, Advanced Technologies' 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 & 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.

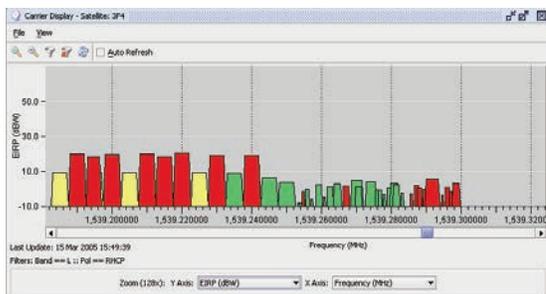
The scalable architecture of the system supports monitoring of multiple satellites with one or more antennas from either a single measurement site, or with multiple measurement sites reporting to a central control facility.

Take measurements using a conventional spectrum analyzer or Calian's low-cost Decimator Spectrum Analyzer.

# CSM Operator Support Tools

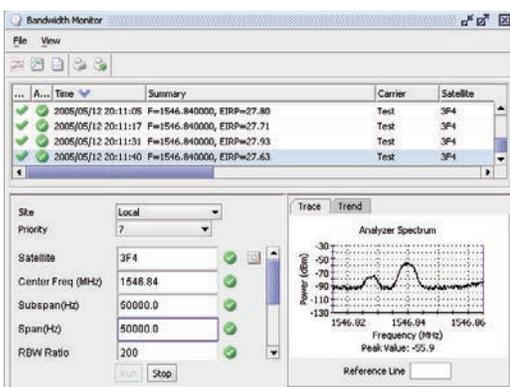
## VIEW

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

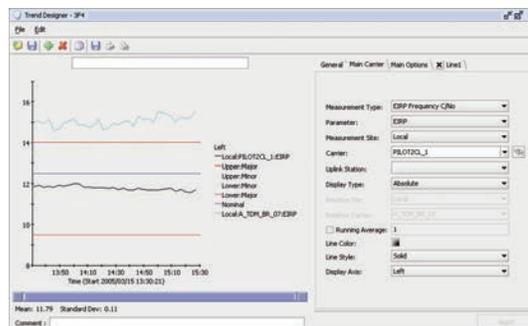
- ODBC access to system tables and measurement results
- SNMP interface to other systems
- Export measurement results
- Detailed reports and plots in pdf format

## 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 & analyze multiple carrier measurement results.



## MEASURE

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

M	Name	Parameters	Execution Time	Duration	Start Time	End Time	Total Duration
1	CSM: EIRP in a Bandwidth	3F4, 1.5380269, 75000.0	unknown	0:00:15	unknown	unknown	0:00:15
2	CSM: EIRP in a Bandwidth	3F4, 1.5380269, 150000.0	unknown	0:00:09	unknown	unknown	0:00:09
3	CSM: EIRP, Frequency, and C/N0	3F4, PILOT2CL_3	unknown	0:00:09	unknown	unknown	0:00:09
4	CSM: EIRP, Frequency, and C/N0	3F4, A_TCM_BR_07	unknown	0:00:07	unknown	unknown	0:00:07
5	CSM: EIRP, Frequency, and C/N0	3F4, A_TCM_OH_02	unknown	0:00:07	unknown	unknown	0:00:07
6	CSM: EIRP, Frequency, and C/N0	3F4, A_TCM_OH_09	unknown	0:00:07	unknown	unknown	0:00:07
7	CSM: EIRP, Frequency, and C/N0	3F4, A_TCM_NC0_00	unknown	0:00:06	unknown	unknown	0:00:06
8	CSM: EIRP, Frequency, and C/N0	3F4, A_TCM_NC0_01	unknown	0:00:07	unknown	unknown	0:00:07
9	CSM: EIRP, Frequency, and C/N0	3F4, C_RL_BR_01	unknown	0:00:07	unknown	unknown	0:00:07
10	CSM: EIRP, Frequency, and C/N0	3F4, C_RL_BR_01	unknown	0:00:06	unknown	unknown	0:00:06
11	CSM: EIRP, Frequency, and C/N0	3F4, C_RL_BR_01	unknown	0:00:06	unknown	unknown	0:00:06

## 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

To learn more, please contact:

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