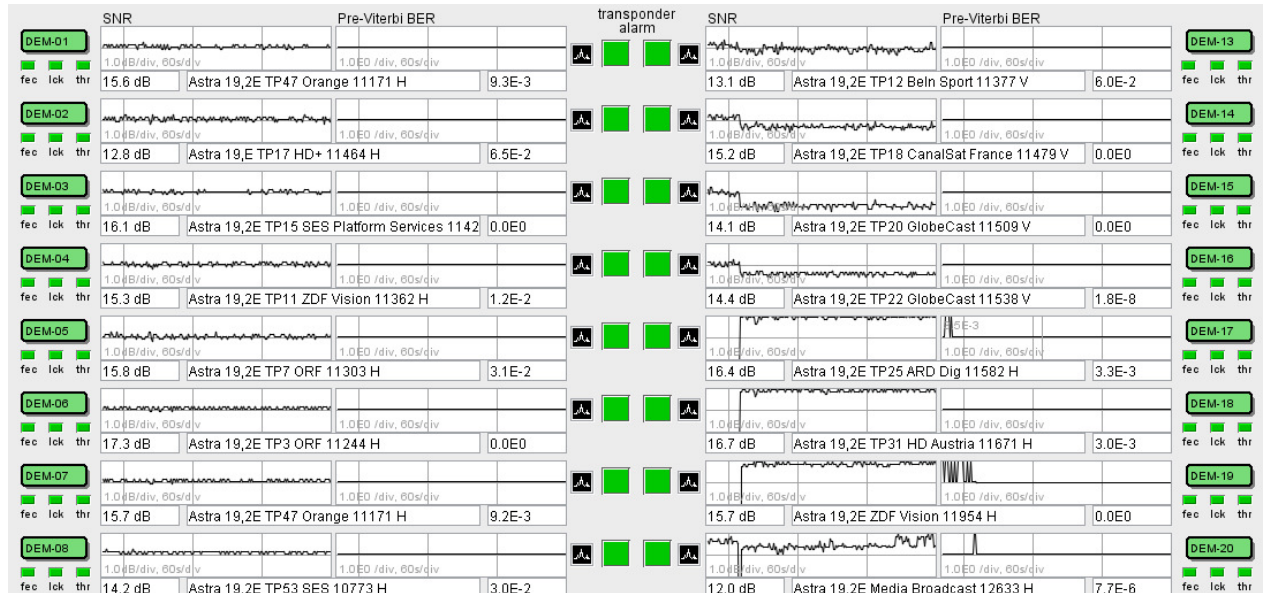


sat-nms QMON - DVB-S/S2 Carrier Quality Monitoring System

Based on the successful **sat-nms** MNC Monitoring & Control System, SatService GmbH developed the **sat-nms QMON** Quality Monitoring System. The stable **sat-nms** Software System, an industrial grade server PC, high-quality DVB-S/S2 dual-receiver cards together with a specialized graphical user interface gives you a compact solution for monitoring DVB-S and DVB-S2 carriers.



The **sat-nms QMON** System continuously monitors the transmission performance values signal to noise ratio (SNR), channel bit error rate (CBER) before error correction, bit error rate (BER) and demodulator lock alarm for each transponder and evaluates transport stream counters for Sync, Packet, PMT and PAT errors. Especially the CBER is very helpful as its correlation to the input signal to noise density is not so steep like the corrected BER. Therefore, an operator has the chance to see link performance degradation before the link is completely broken. All these parameters are continuously recorded in the file recorder on the systems hard disc. To easier identification of a carrier it shows in addition network name and service list decoded from received transport stream.

This system can be used as a standalone system at one site but it can be extended in a way that three different **sat-nms QMON** Systems at three different sites can exchange information between each other. In this case, a special logical device compares the lock status of all corresponding demodulators at the 3 different sites and generates a summary lock state, an 'Alarm' if all demodulators are out of lock, a 'Warning' if one or two are out of

lock and an 'OK' if all three are in lock. With the help of this status information the operator can generate monthly reports that clearly show its uplink availability figures.

Key Features

- Up to 12 DVB-S2 Dual Receiver PCI-e Cards
- 4 RU, 19inch Industrial Server PC
- Monitoring of up to 24 Satellite Transponders
- CBER, BER, SNR, Level Information & Lock Alarm
- Transport Stream Error Counters and Service List
- Combination of Events from 3 different Sites
- Generate Criteria for site diversity Switching
- Generates Reports for monthly Uplink Availability
- Event Database
- Recording of Measurements

