WISTOM Network Monitoring System

The complete optical layer monitoring solution for your entire DWDM network

WISTOM Network Monitoring System (WNMS) is a powerful monitoring tool that, together with WISTOM optical layer monitors, supervises the status of key optical parameters in your DWDM network.

Key features

➤ Detailed information and analysis
➤ Comprehensive network map overview, displaying the condition of the optical layer in real-time
➤ Alarms and warnings indicate anomalies
➤ Advanced logging of alarms, channel data and full spectrum graphs
➤ Alarm acknowledgement procedures for user interaction and fault processing
➤ Email and SMS alerts
➤ Advanced log analysis

Applications

➤ Optical layer monitoring for the entire network
➤ Key values and customized reports verifies QoS and SLAs
➤ Long-term trend analysis
➤ Effective fault localization
➤ Proactive instead of reactive fault management

By distributing WISTOM units in critical nodes in your DWDM network and connecting them to WNMS you will get instant access to the optical layer with one software. Key parameters for each monitored channel as well as historical information is easily accessible through an optimized interface.

WNMS displays the network as a comprehensible map where the current condition and any anomalies are clearly indicated. WISTOM units, ports and channels are named by the user to obtain intuitive overviews. Detailed information such as power, wavelength and OSNR for each channel, can easily be displayed by clicking on a node. Also, a high resolution spectrum can be displayed for extensive analysis of any link.

Alarms, channel data and the full spectrum are logged to files at configurable intervals, or automatically when alarms occur. The collected data is used for trend analysis, report generation and detailed examination of failure processes.

Due to the unique WISTOM platform and an optimized software design, WISTOM and WNMS forms a powerful solution for cost-effective and reliable optical layer monitoring in today’s as well as in future DWDM networks.
WISTOM is a high performance optical layer monitor that measures power, frequency and OSNR for up to 2048 DWDM channels in eight different fibers. It is aimed for applications in DWDM long haul and metropolitan area networks.

Any channel deviating from normal conditions is reported within milliseconds. Spectral characteristics, such as power, central frequency and OSNR of each channel are monitored and reported. The long term drift of these parameters can be tracked and analyzed, thus providing input for network tuning and resource allocations.

With WNMS, WISTOM now becomes the ultimate tool for monitoring the optical layer in DWDM networks. Installed in critical nodes and used as a portable measurement instrument, WISTOM paired with WNMS will avoid as well as help to resolve problems throughout the network.

![WISTOM spectrum history](image)

Browse spectrum history to study trends and intermittent problems.

![Detailed channel analysis](image)

Detailed channel analysis.

Alarms are comprehensible displayed, and acknowledgement procedures enable proper fault processing.