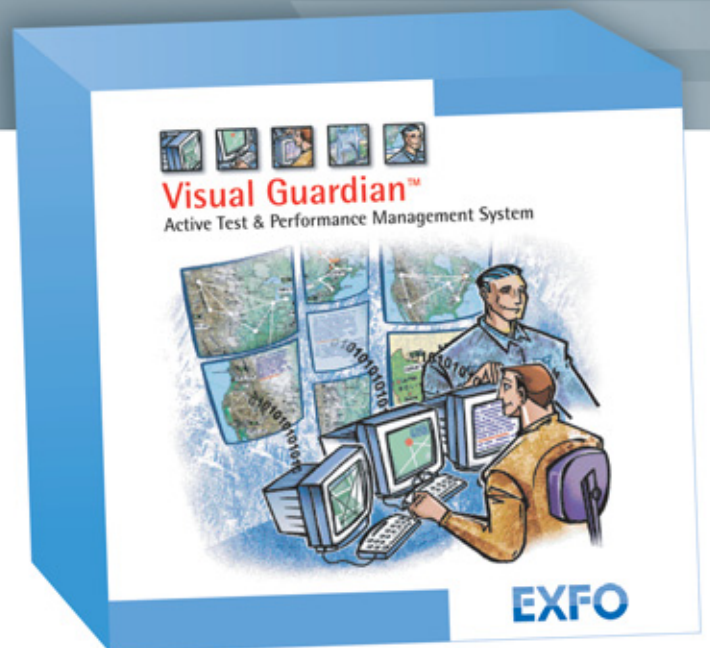


# VISUAL GUARDIAN

## Active Test & Performance Management System

NETWORK TESTING

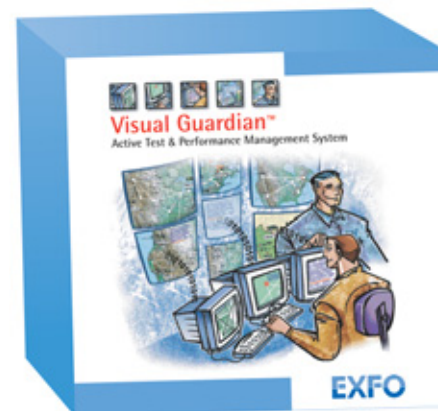
- End-to-end, 24/7 monitoring
- Scalable, reliable solution
- Interoperable, open architecture



# 24/7 Remote Network Monitoring

Visual Guardian is the Element Management System (EMS) for the EXFO suite of Optical Network Performance Management™ products including the Network Guardian™ G2 and STG™ Series. Visual Guardian supports Fault Management, Performance Management and Service Assurance over PDH, SDH and SONET network infrastructure and services with an out-of-the-box solution for carriers and service providers. Visual Guardian provides 24/7 access to testing & monitoring capabilities directly from the Network Operations Center (NOC).

EXFO offers service providers better ways to control and maximize end-to-end network performance and service availability. The Visual Guardian helps lower operation costs, generate profitable business and build long-term relationships with partners and customers who are sensitive to performance issues.



## KEY FEATURES

- End-to-end 24/7 network monitoring (on-net/off-net)
- Embedded multi-vendor test access management (TL1/SNMP)
- Client/server architecture, supporting multi-OS
- Event & alarm viewing and reporting for root-cause and trend analysis
- Test automation, scripting and scheduling across the network
- Carrier-grade security system providing network partitioning and data integrity

## BENEFITS

- Enriched and proactive performance management via strategic network quality metrics
- Automated, integrated dissemination of service quality information from the network layer to the service, customer and business layers
- Filtering, partitioning and customized reporting for multiple user profiles (e.g. engineering, customer support, sales, marketing and senior management)
- Streamlined network alarms and test results provide business-driven data and improve the decision process
- Open architecture provides a high degree of interoperability and OSS/BSS integration in a carrier NOC environment
- Intuitive GUIs, remote control and smart test management software increase efficiency when turning-up and maintaining network services
- Worldwide 24/7 technical support services

# Visual Guardian Applications

## Fault Management

Real-time event capture resulting from both user activity and integration of Network Guardian alarms through an event viewer window.

## Performance Management

Performance data collection (G.821/G.826/G.828/G.829)

## Service Provisioning

Ensure quicker service activation and restoration using tools that bring you right to the network hot points.

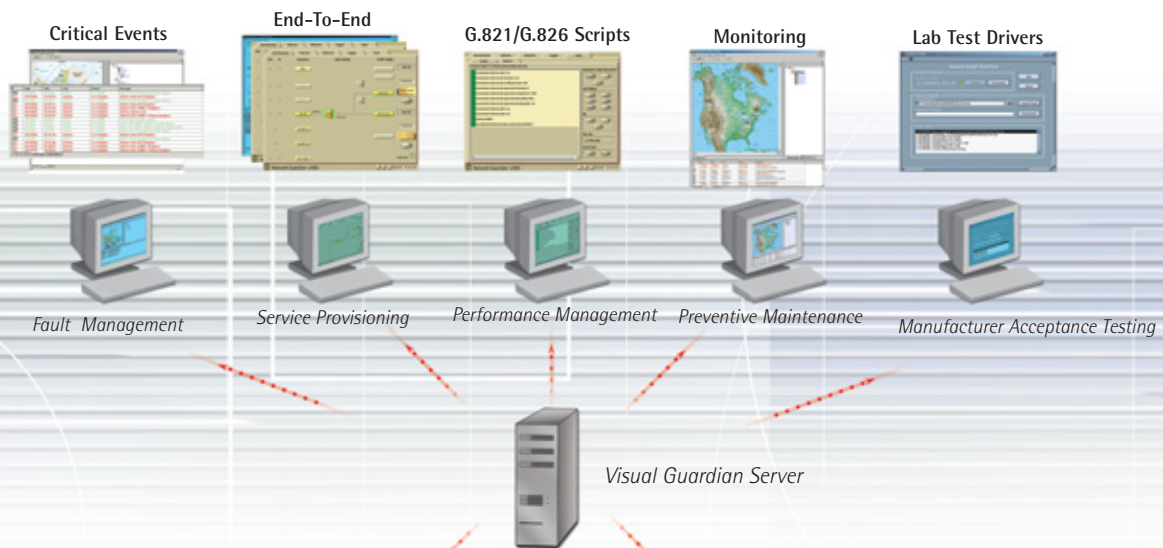
## Preventive Maintenance

Background monitoring of the network through the various Network Guardian performance analyzers.

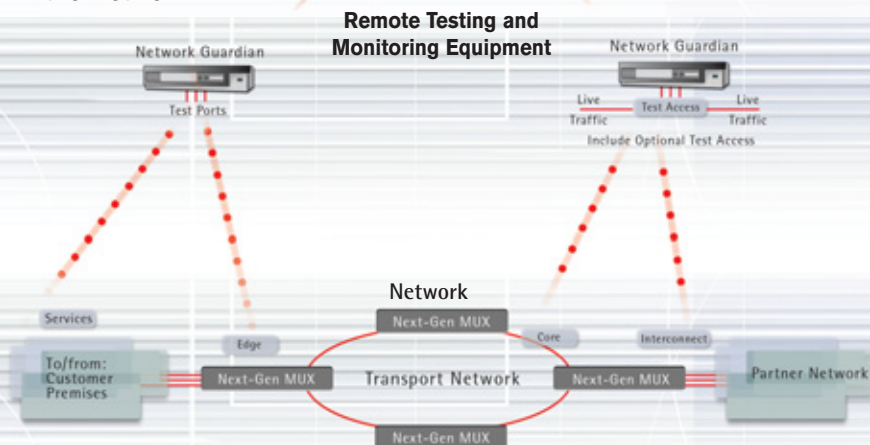
## Manufacturing

Test automation and scripting through standard drivers such as LabVIEW™, Visual Basic and EXFO Macro-player.

## Visual Guardian Customer Applications



## Visual Guardian in the Network



**GENERAL SPECIFICATIONS**

<b>Minimum Requirements*</b>	Windows 2000/NT version 4 SP6 Internet Explorer 5.5 Single processor (650MHz) PC 512 MB RAM 17-inch monitor
<b>Interfaces</b>	CORBA agent northbound interface TL1/SNMP Network Element Interface LabVIEW Driver Macro Player Smart User Interface (SUI)
<b>Modules</b>	Event Manager Topology Manager Device Manager Node and Alarm Browsers User Manager Scheduler

\* Applicable for single-user and up to 25 node implementations.  
A Window NT server or a Sun Solaris Enterprise 220R can be used to handle a larger implementation

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**Optical Fiber**

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- OLTS
- ORL meter
- Switch

**DWDM Test Systems**

- OSA
- PMD analyzer
- Chromatic dispersion analyzer
- Multiwavelength meter

**Transport/Datacom**

- 10/100 and Gigabit Ethernet
- SONET/DSn (DS0 to OC-192c)
- SDH/PDH (64 kb/s to STM-64c)
- SAN

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