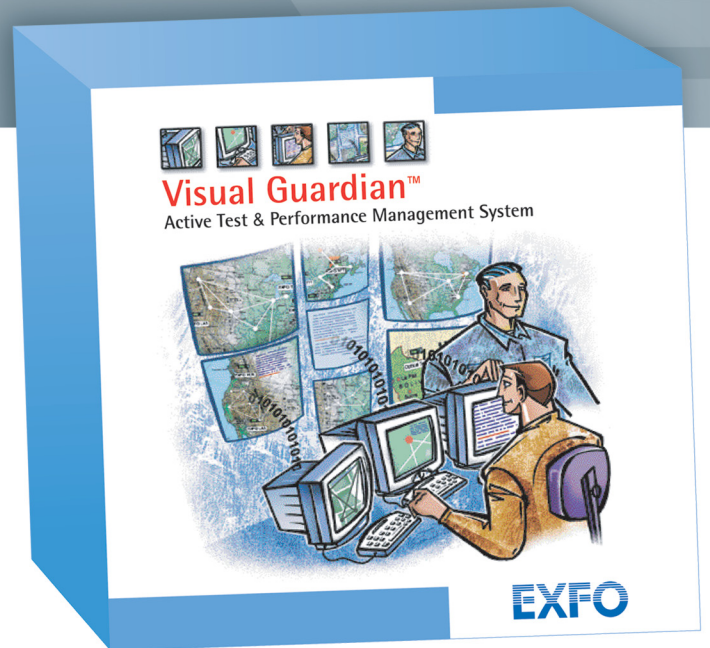


# VISUAL GUARDIAN

## Active Test & Performance Management System

NETWORK TESTING

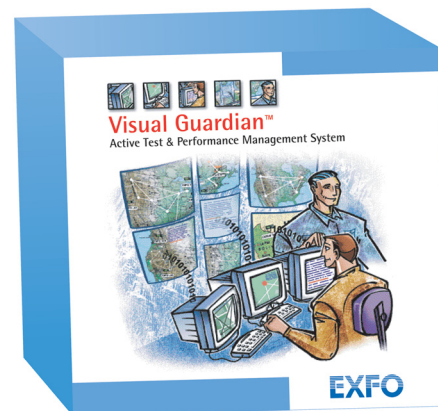
- End-to-end, 24/7 monitoring
- Scalable, reliable solution
- Interoperable, open architecture



# 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.

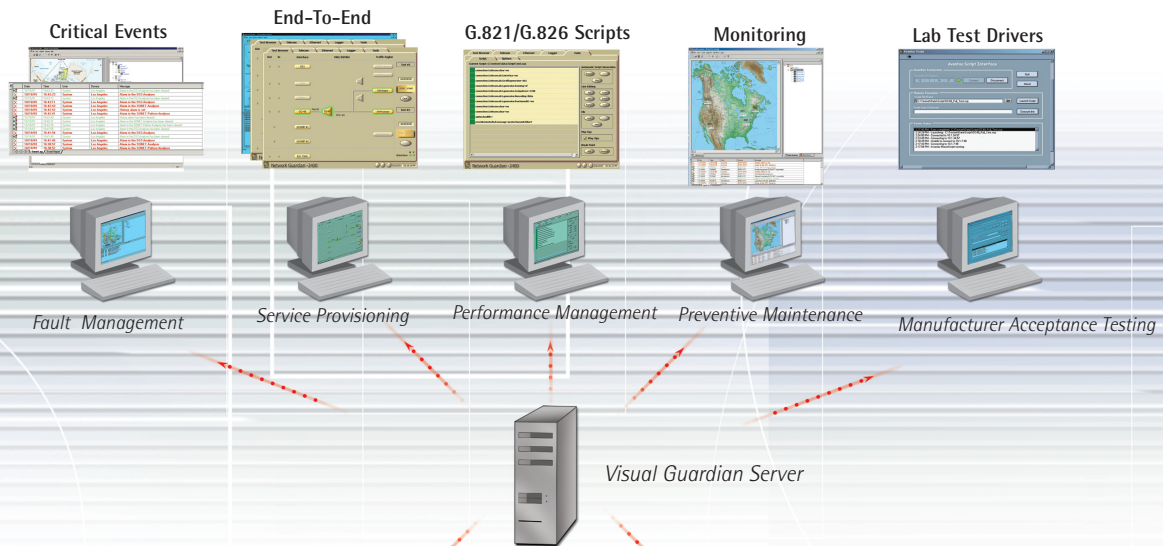
## Preventive Maintenance

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

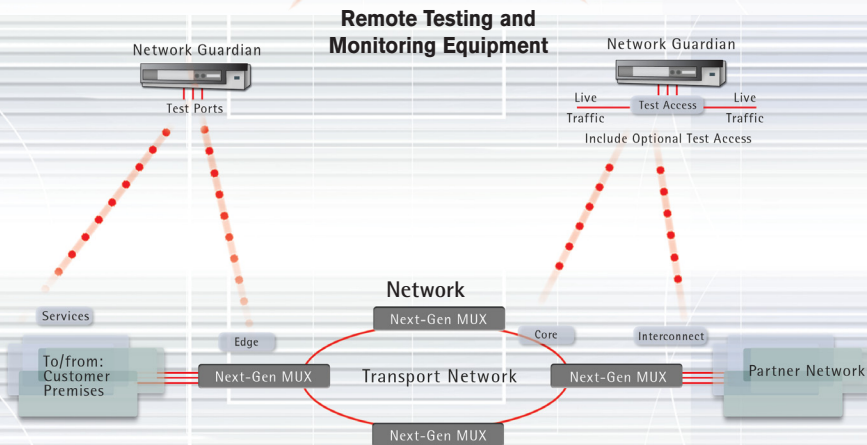
## Manufacturing

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

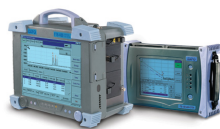
\* Applicable for single-user and up to 25 node implementations.  
A Window NT server or a Sun Solaris Enterprise 220R can be used to handle a larger implementation

Find out more about EXFO's extensive line of high-performance portable instruments by visiting our website at [www.exfo.com](http://www.exfo.com).



### Rugged Handheld Solutions

- OLTS
- Power meter
- Light source
- Talk set



### Optical Fiber

- OTDR
- 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

Corporate Headquarters > 400 Godin Avenue, Vanier (Quebec) G1M 2K2 CANADA | Tel.: 1 418 683-0211 | Fax: 1 418 683-2170 | [info@exfo.com](mailto:info@exfo.com)

Toll-free: 1 800 663-3936 (USA and Canada) | [www.exfo.com](http://www.exfo.com)

EXFO America	3701 Plano Park, Suite 160	Plano, TX 75075 USA	Tel.: 1 800 663-3936	Fax: 1 972 836-0164
EXFO Europe	Le Dynasteur, 10/12 rue Andras Beck	92366 Meudon la Forêt Cedex FRANCE	Tel.: +33.1.40.83.85.85	Fax: +33.1.40.83.04.42
EXFO Asia-Pacific	151 Chin Swee Road, #03-29 Manhattan House	SINGAPORE 169876	Tel.: +65 6333 8241	Fax: +65 6333 8242
EXFO China	Room 801, Central Tower, No.88 Fuhua First Road, Futian District	Shenzhen 518048, CHINA	Tel.: +86 (755) 8203 2300	Fax: +86 (755) 8203 2306

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