VitalEvent™
Real-Time Event Analysis Software for Your Enterprise

Measure, analyze and report on packet data network performance

VitalEvent™ software helps you optimize multi-vendor packet data and voice networks with powerful real-time capabilities that traditional management products cannot match. VitalEvent™ provides views of network connectivity that go beyond traditional performance management systems. It offers technically advanced tools to monitor, measure, analyze and visualize performance data and immediately identify network resources that have exceeded defined network service levels. Using the data collection capabilities of VitalNet™ Network Performance Management system, it lets you identify key events as they unfold. This component of Lucent’s award-winning VitalSuite® solutions portfolio provides the time-critical data you need to address emergent problems before they affect your users.

Features

• **Industry-leading scalability** — accommodates today’s largest enterprise networks; readily expandable to monitor new elements as they are introduced
• **Flexible multi-technology support** — monitors diverse resource types and more than 500 devices from more than 50 vendors
• **Real-time surveillance** — continuously monitors WAN, IP, Frame Relay and ATM traffic, elements and interfaces enterprise-wide
• **Real-time displays** — provides choice of customizable geographic topology maps, path visual displays, graphs, tabular reports; all with immediate drill-down functions for details
• **Versatile thresholding** — offers default, user-configurable and adaptive (learned from historical data) thresholds, device-specific or network-wide
• **Powerful event analysis** — advanced tools filter, analyze and summarize raw performance data, present it in instantly comprehensible graphical displays
• **Instantaneous event notification** — provides graphical screen displays, e-mail/pager and trap messages
• **Browser-based interface** — enables easy, intuitive navigation and data manipulation

Benefits

• **Wide tailorability** — simplify management with a personalized web portal; select views, reports, event notification priorities and threshold configurations to suit your specific needs
• **Investment protection** — rapidly incorporate existing and emerging technologies using integration toolkits
• **Proactive problem identification** — spot performance changes in real time; no need to wait for periodic reports
• **Rapid problem resolution** — cut diagnosis and resolution times from hours to minutes and minimize trouble tickets with powerful visualization and analysis tools
• **Enhanced user satisfaction** — pre-empt performance-threatening issues before they degrade service quality; verify external vendors’ SLA compliance in real time
• **Network-wide visibility** — identify problems in the context of overall network performance, not as isolated events; uncover event patterns that underlie chronic performance problems
• **Smarter capacity management** — use end-to-end path analysis to spotlight under- and over-utilization
• **Reduced operations and training costs** — capitalize on web-based capabilities and derive immediate value

Lucent’s exclusive topology and path map displays provide real-time visual status of network-wide elements
**VitalEvent™ Software Operations and Specifications**

### Data Collection
- Automatic discovery of network SNMP enabled devices
- Leverages VitalNet™ data collection pollers to prevent network traffic spikes due to data collection
- Supports virtually any SNMP network element via standard and enterprise SNMP objects, including Lucent, Cisco, Nortel, and others
- ATM support for Trunks, Links, and Trunk Service (SVC summary) measurements; ATM and FR support for PVC and SPVC measurements
- Collects key performance data including utilization, packet loss, Internet Control Message Protocol (ICMP) data and throughput for network elements and interfaces
- Flexible architecture accommodates new network elements as network evolves
- Performance measurement query ability allows for viewing historical performance data
- Stores performance data in a commercial relational database management system allowing SQL access
- Capacity designed for at least 8 days of periodic data and 32 days of events

### Visualization
- Geographic Topology views (below) of performance data show devices, interfaces and subnetworks with associated events; allows complex topologies to be viewed effectively at a high level with drill-down to more detailed information
- Path analysis maps display selected IP route paths through the network
- Tabular text views of performance data, including a summary display with drill-down expansion; tables can be customized by specifying columns, column order, and default sort order

### Advanced Thresholds
- Flexible threshold capability (includes default, user-configurable and adaptive - based on historical data) generates events for network conditions according to user-established parameters
- Customizable "business aware" threshold sets for various times of the day or week
- Rate-based thresholds enable alerts based on multiple occurrences of performance events over a specific time period
- Event conditions by thresholding interval - allows event conditions to be configured as active only during a certain time-of-day, for SLAs that apply during specific periods
- Aggregate "super events" can be generated from collections of correlated events

### Event/Alarm Processing
- SNMP traps are processed against configurable thresholds; includes standard traps as well as configurable trap formats
- Users can be notified of events even when they are not viewing a VitalEvent™ screen; flexible configuration options allow specific messages (or messages about specific devices) to go to specific individuals
- SNMP traps can be generated (and forwarded) for a configurable set of performance events to systems such as HP OpenView, Micromuse NetCool, or Lucent's Network Fault Manager (NFM)
- Integrated Fault Management allows performance and trap events to be viewed from the same GUI screen allowing faster problem diagnosis
- "Event Index" ranks the relative importance of multiple network events
- Event conditions can be applied to members of a specific event group

### Scalability
- N-tier architecture for unsurpassed scalability
- Up to 10 million polled objects

### Flexibility
- Provides Open APIs
- Supports SNMPv1/v2, RMON/I/II standards
- MIBWorks Utility allows proprietary MIB and MIB extension to be defined
- DataWorks Utility provides bulk stats input definitions
- Supports 100’s of simultaneous User/Active Clients

### Administration
- Uses the same powerful web-based GUI as other VitalSuite™ products for both administrative and real-time displays
- Robust default behavior and configurability provides out of the box functionality
- Secure SSL (https) provides 128 bit encryption between client/master
Server Configurations

VitalEvent™ – VitalNet™ WIN2000 Servers

<table>
<thead>
<tr>
<th>Network Resources</th>
<th>Master Servers</th>
<th>Aggregation Servers</th>
<th>Poller Servers</th>
<th>Report Servers</th>
<th>VitalEvent™ Servers</th>
</tr>
</thead>
<tbody>
<tr>
<td>0–25,000</td>
<td>1</td>
<td>0</td>
<td>0</td>
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<td>1</td>
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<tr>
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<td>1</td>
<td>2</td>
<td>1</td>
<td>1</td>
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<tr>
<td>70,000–20,000,000</td>
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<td>1 per 70,000</td>
<td>2 per 70,000</td>
<td>1 (optional)</td>
<td>1 per 70,000*</td>
</tr>
</tbody>
</table>

* Note: The number of VitalEvent™ Servers required follows the number of VitalNet™ Aggregation Servers

VitalEvent™ Software Operations and Specifications (continued)

Monitored Devices/Resource Types
- Over 50 vendors supported via VitalNet™ software
- Over 500 devices certified
- **Routers**: Lucent, Cisco, Nortel, 3Com, Juniper, Redback
- **WANs**: Circuits, Frame Relay PVCs, ATM PVCs, ATM trunks, logical ports on WAN switches, and routers
- **LANs**: Ethernet, Token Ring, switches, hubs, SMON VLAN
- **Servers**: Microsoft® NT/2000, UNIX, Novell, Compaq, SNMP Research, BMC
- **Wireless**: Comprehensive Wireless Coverage 2.5 and 3G MSC/Wireless Routers
- Wireless LANs

Client/Administrator Interface Requirements
- IE 5.5/6.0 or Netscape 4.7
- Video resolution 1024 x 768
- Acrobat Reader 4.0/5.0 with browser plug-in

System Requirements
- **Windows 2000**
  - Dual Pentium® III Processor @ 700 MHz, or equivalent
  - 1.5GB RAM, 72 GB free disk space, CD-ROM Drive, Windows® 2000, SQL 2000 Database

VitalSuite® Performance Management portfolio for the Enterprise

**Optimize network, application and business performance**

Winner of many awards, including the Network World “World Class Award” for best performance management system, VitalSuite® modules offer a comprehensive, fully integrated solution in a cost effective package. Providing real-time views into everything from complex e-commerce transactions to curial network resources, it lets you continuously monitor, measure and optimize performance at every level of your IT operations.

VitalEvent™ software seamlessly merges real-time performance and fault data with network performance and application data from other VitalSuite® modules VitalNet™ and VitalApps™ to help you instantly understand how everything from complex e-commerce application transactions to networked devices are interacting to support your business operations.

VitalNet™ Network Performance Management software provides on-demand access to the critical network performance information necessary to preempt problems, optimize resources and plan for maximum ROI. This market-leading tool gives you end-to-end, web-based visibility into your geographically dispersed, multi-vendor infrastructure. It lets you monitor, analyze, manage and predict performance from a single centralized location.

VitalApps™ Application Performance Management software monitors the performance of your network-based applications, giving you a real-time view of each user transaction from the desktop, across the network or Internet, to the servers, and back again. You get a complete picture of the overall application performance on your network since the software continuously collects the data from all ongoing applications activity. Potential troubles are clearly flagged on the system’s graphical summary screens and allow you to select the level of underlying detail about the activity you specify.

The Lucent award-winning VitalSuite® portfolio provides the real-time data you need to manage and address problems before they affect your users.

To learn more, contact your Lucent Technologies sales representative, authorized reseller or sales agent. You can also visit our web site at http://www.lucent.com/vital or call 1-888-426-2252.