

# net.CARE™

## Layer 2 ATM Mapping and Monitoring

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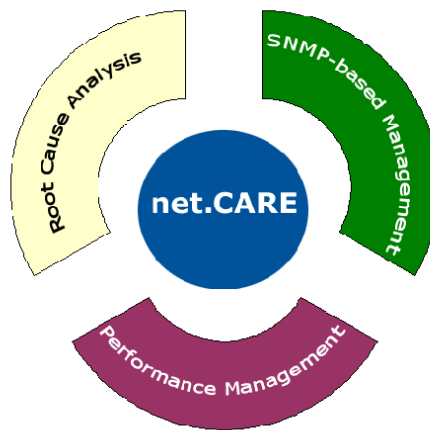
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### Insight & Change Management for Today's Dynamic, High-performance Networks

net.CARE, the only true ATM layer-2 topology mapping system, is specifically designed for network engineers managing today's complex, mission-critical networks. By establishing peer relationships with infrastructure devices, using routing protocols such as PNNI and LANE, net.CARE provides real-time visibility into the dynamic routing operation of an entire ATM hierarchical network. Network change is detected immediately providing for fast identification and resolution of difficult-to-diagnose network problems.

#### net.CARE Spans the Critical-Gap



#### SNMP-based Management

While traditional SNMP-based management systems can discover and display the individual network elements and their physical, or layer-2 topology, they do not identify the actual issues and/or faults that occur on the network. Without this knowledge, operators are unable to determine which network services are being affected by individual device failures.

#### Performance Management

Typical Performance Management tools include host-based agents that monitor server resources, as well as network probes that measure application response times. While both of these

techniques are valuable in understanding the quality of service delivery, they offer little visibility into the root cause of any network related problems that are impacting those services. Lacking real-time knowledge of the actual routes being taken by the affected applications, how can the operator know which network devices to investigate?

#### Root Cause Analysis

Root Cause Analysis systems were developed to sift through the myriad of alarms and alerts derived from the aforementioned tools. Designed to monitor and gather data from a variety of instruments and systems, utilizing complex rules and analyses using correlation to determine the source of a problem. But in the end, these tools are still trying to synthesize the root cause based on a static and incomplete set of information. Without the ability to visualize, monitor and analyze the realtime operation of the network, you will never truly isolate or detect the actual faults within your network. Without realtime information many organizations mistakenly over-provision their network, resulting in excessive operational costs, or spend far too much time in problem resolution, resulting much lost productivity.

#### The net.CARE Solution

net.CARE Spans the Critical Gap, providing a complementary tool to monitor the layer2 routing protocols by establishing peer relations within your network enclaves. Change detection occurs in realtime by listening sensors deployed in each peer group. Minimal configuration is required; sensors are passive and require no network change. Additional engineering costs can be saved by the fact that net.CARE requires no MIB to configure, no SNMP management host necessary to configure; no need to touch each switch to enable monitoring the routing and topology of your network. net.CARE, out of the box, can draw the topology of your ATM network in minutes compared to extensive deployments for SNMP-centric management systems. Your return on investment is clear from the start of deployment and continues to grow with the use of the tool.



# net.CARE

## net.CARE Management Appliance Specifications

### Hardware

- Pentium 4 Processor
- 1GB SDRAM
- 40GB Hard Drive
- 2 – 10/100 Ethernet RJ45
- 2 COM Ports
- Parallel Printer Port
- PS2 – Keyboard & Mouse
- SVGA
- Sound card



### Protocols

- PNNI
- LANE
- IP (Out-of-Band Management)

### Management/Administration

- Local KVM (optional)
- 2 10/100 RJ45 Ethernet Connections

### Client Requirements

- X Window Server
- Internet Browser (IE, Netscape or Mozilla)

### ATM Connections

- Up to 2 OC-3 SC Fiber Connectors

### Physical Dimensions

- 1.75 in. x 19 in. x 24.25 in. (H x W x D)
- (4.5 cm x 48.3 cm x 61.5 cm)

### Rack Mount Weight

- Rail-to-rail rack depths of 29 in. to 36 in.
- 25lbs. (11kg)

### Operating Environment

- Humidity 20% to 85%
- Temperature 32° F to 95° F (0° C to 35° C)

### Power

- Input maximum 120/220 VAC, 50/60 Hz, 6/3 A
- Input typical 120/220 VAC, 50/60 Hz, 2.5/1.25 A
- Cooling load 720 BTUs/hour

### Regulatory Compliance

- US CFR 47 Part 15, Class A (FCC); UL 60950, 3rd Edition
- Canada CAN/CSA 22.2 #60950-00/UL 60950, 3rd Edition, DOC Class A
- Europe/UK IEC60950 3rd Edition (1999); EN55024; EN55022 Class A (CE)
- Japan VCCI Class A

## Benefits

Improved Network Availability

Maximize Network Performance

Reduce Total Operating Costs

Addition Of Layer 2 Security

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