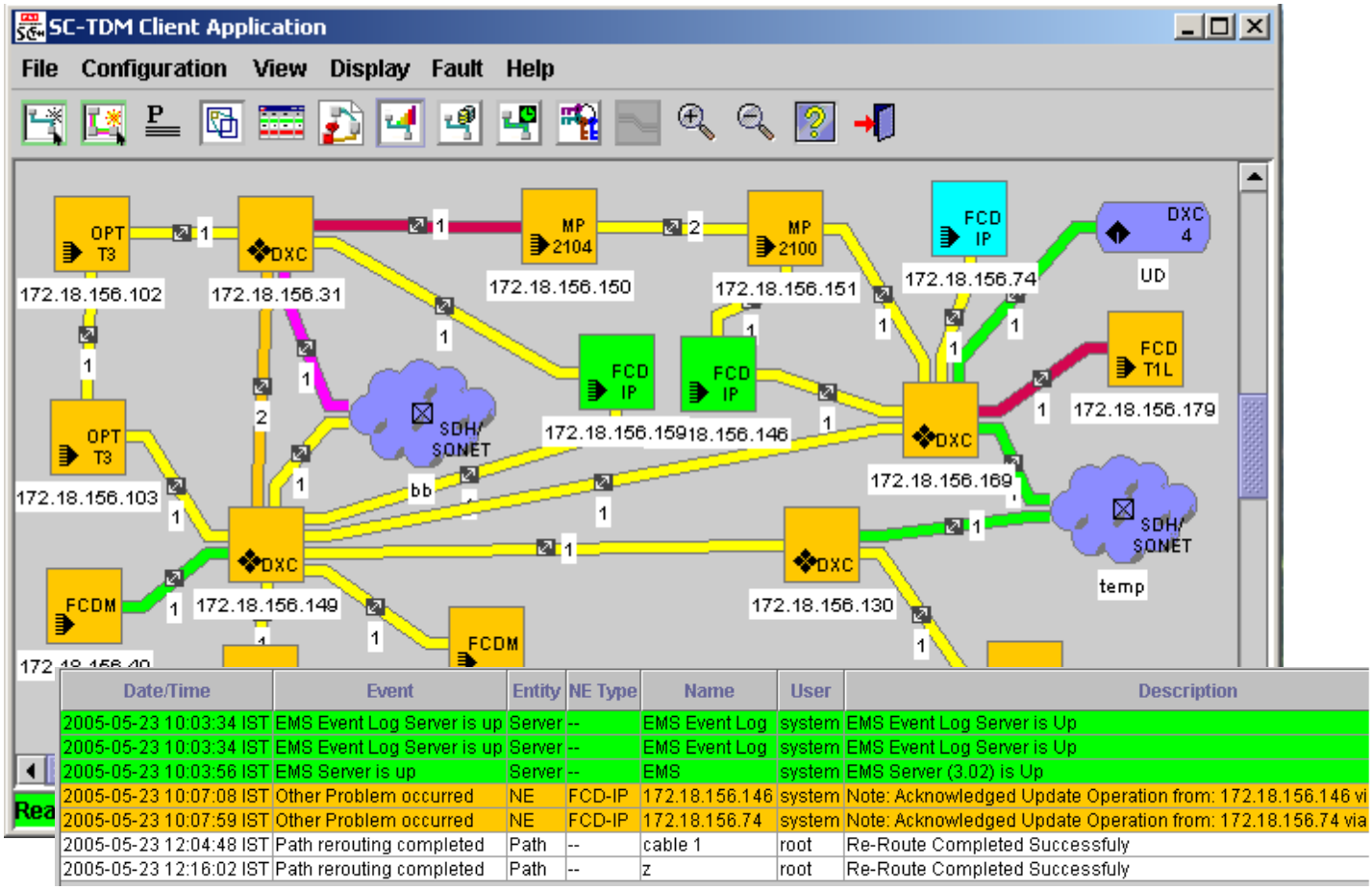
RADview-SC/TDM

Network Management System
Service Center for TDM Applications



Date/Time	Event	Entity	NE Type	Name	User	Description
2005-05-23 10:03:34 IST	EMS Event Log Server is up	Server	--	EMS Event Log	system	EMS Event Log Server is Up
2005-05-23 10:03:34 IST	EMS Event Log Server is up	Server	--	EMS Event Log	system	EMS Event Log Server is Up
2005-05-23 10:03:56 IST	EMS Server is up	Server	--	EMS	system	EMS Server (3.02) is Up
2005-05-23 10:07:08 IST	Other Problem occurred	NE	FCD-IP	172.18.156.146	system	Note: Acknowledged Update Operation from: 172.18.156.146 vi
2005-05-23 10:07:59 IST	Other Problem occurred	NE	FCD-IP	172.18.156.74	system	Note: Acknowledged Update Operation from: 172.18.156.74 via
2005-05-23 12:04:48 IST	Path rerouting completed	Path	--	cable 1	root	Re-Route Completed Successfuly
2005-05-23 12:16:02 IST	Path rerouting completed	Path	--	z	root	Re-Route Completed Successfuly

FEATURES

- Manages end-to-end paths of RAD's MAP devices for simplified service provisioning
- Automatic path routing, for error-free and efficient bandwidth utilization
- Automatic re-routing of protected paths maximizes network uptime
- Network services discovery alerts to potential network configuration problems
- Physical and logical graphic representation of network links, services, nodes, and clouds
- Automatic periodic self-healing of faulty services
- Dynamic filter displays path-related alarms
- Powerful Simulator mode for network design, optimization, and planning
- Backup and restore for the entire TDM network
- History log enables to review events
- Clock source flow and resource utilization maps
- Service provisioning planning tips
- Editing existing services for user-friendly maintenance and expansions
- Network resources utilization indication
- Client-Sever architecture supports network access security
- Easy integration with third party NMS products via northbound CORBA interface
- SLA report module allows to verify the service availability per user-defined time frame
- Service Center PC client enables port-level configuration (when used in conjunction with X-Terminal software)

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DESCRIPTION

- The RADview-SC/TDM (Service Center TDM) application is the cornerstone of the RAD family of network management products. It enables end-to-end path management of RAD's MAP devices, for simplified service provisioning and maximum uptime.
- RADview-SC/TDM's open, scalable, reliable, and multi-access management capabilities enable network operators to add new service offerings while minimizing overall operating costs, reducing provisioning effort, and maximizing the efficiency of existing network resources.
- Discovery of existing network services alerts to potential network configuration conflicts, and assures the best utilization of existing network resources.
- Intuitive GUI increases the efficiency and accuracy of the service provisioning process. Provisioning is aided by "point-and-click" functionality and easy-to-follow wizards, with tips and hints displayed during the workflow.
- Path routing is performed automatically based on efficient bandwidth resource analysis and user-configurable, cost-per-network link. Path data can be exported into PDF or HTML format.
- Automatic, immediate re-routing of protected paths occurs upon reception of SNMP alarm traps from managed network elements.
- Periodic self-healing of faulty services occurs automatically. Various methods maximize the path uptime:
  - All-at-once restoration
  - Priority-based restoration
  - Periodic restoration attempts
  - Manual restoration
- RADview-SC/TDM provides physical and logical graphic views of all network links and service paths.
- Dynamic network status indication and alarms are displayed per node, link, and path. Only the relevant alarms are displayed by filtering out the non-relevant alarms, allowing the user to focus on relevant information only (see *Figure 3*).
- The SLA module enables to verify the service level (in uptime percentage) per path or group of paths, for a user-defined time frame (see *Figure 4*).
- Management is provided seamlessly across the network, and enables end-to-end service monitoring.
- A history log enables the review of events filtered according to event types and users.
- Existing services can be edited on demand, or following service expansions for simple and fast maintenance.
- CORBA-based Client-Sever architecture and a northbound interface facilitate integration with third-party NMS.
- A powerful simulator enables the planning and implementation of complete network services in off-line mode. Later, a fast and efficient update of the network element's configuration streamlines and shortens the network activation process.
- Two installation options are available:
  - Server and Client on the same Unix station
  - Server on Unix station and single or multiple Clients on PC stations.
- A security management module implements a cross-network user privileges policy to allow the setting of access levels (Read/Write, Read-Only, No-Access) per user (or user profile), per managed device.
- Maps display various types of parameters such as:
  - Clock source flow
  - Resource utilization
  - Network link costs
  - Security access permission.

APPLICATION

- Client-Server architecture
- Based on RADview-HPOV/TDM
- Northbound CORBA interface

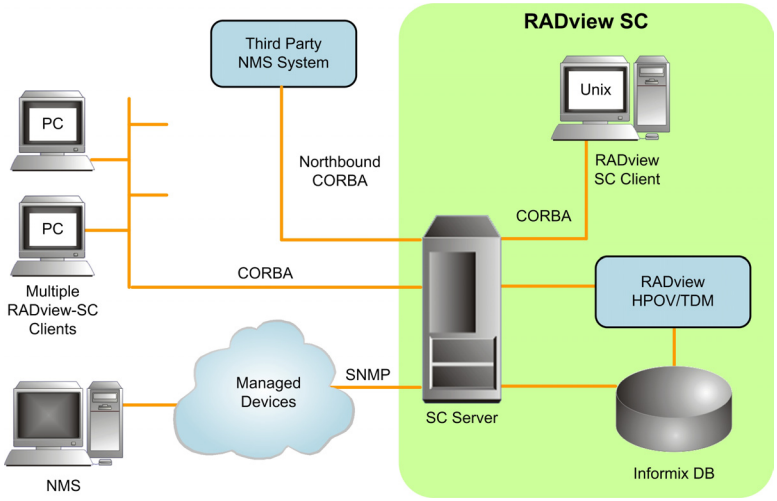

Figure 1. System Architecture

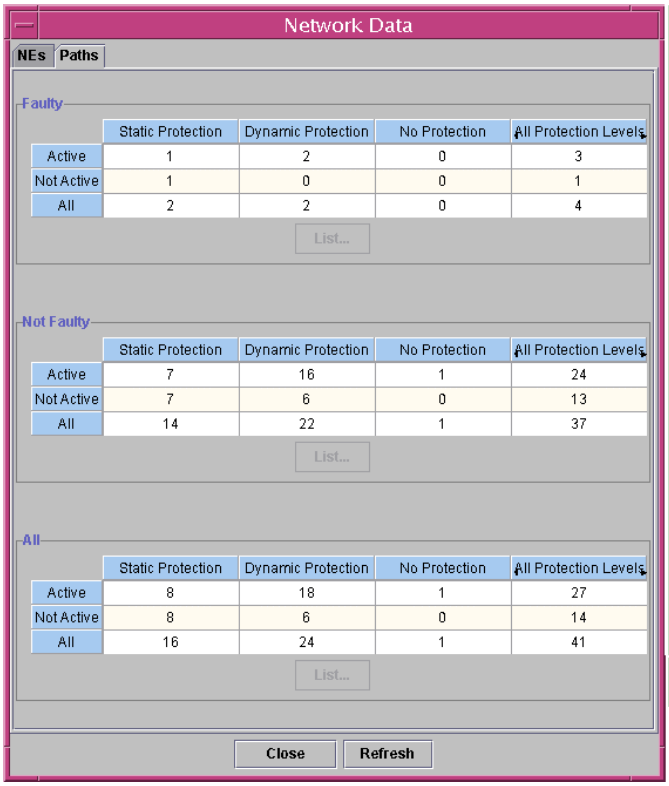

Figure 2. Network Data

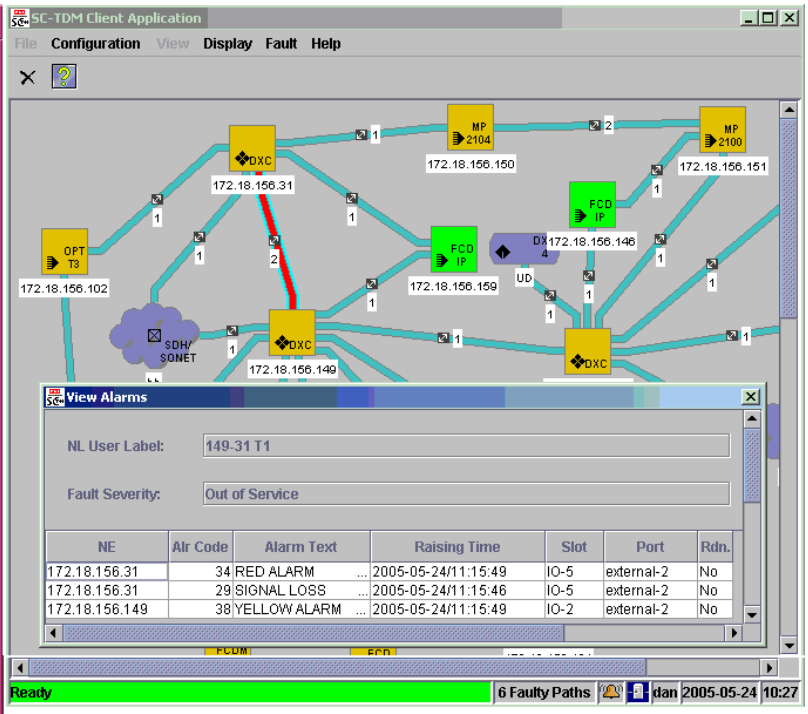

Figure 3. Alarm Status Indication

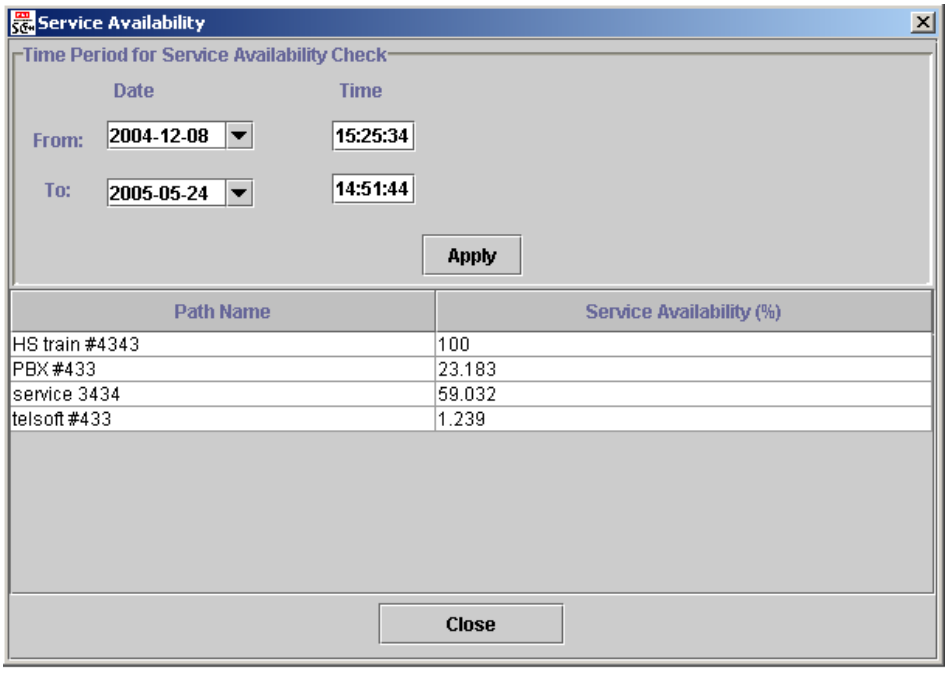

Figure 4. SLA Report Output

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SPECIFICATIONS

SERVER HARDWARE REQUIREMENTS

- SUN Blade 2500 workstation
- 1 GB free space under the **/opt** partition of the RADview-HPOV server
- 600 MB for Informix (under any partition)
- 1 GB RAM minimum
- 768 MB swap file
- CD-ROM drive
- Color monitor (17-inch minimum) supporting 1152 X 900 resolution
- Mouse
- Printer and printer port (optional)

SERVER SOFTWARE REQUIREMENTS

The following software should be installed on the host computer before installing RADview-SC/TDM Server:

- SUN Solaris™ version 2.8, February 2002 or later
- HP OpenView NNM Version 6.4
- Acrobat PDF Reader
- CDE 1.4
- RADview-HPOV/TDM (the latest version supplied with the RV-SC/TDM package)
- RADview-EMS/TDM (Unix) (the latest version supplied with the RV-SC/TDM package).

CLIENT HARDWARE REQUIREMENTS

- IBM-PC compatible computer based on a Pentium 4 3.0 GHz processor (or faster)
- Hard disk with at least 350 MB free disk space for installation
- 512 MB RAM minimum
- CD-ROM drive
- 17-inch monitor (768 × 1024 minimum resolution)

CLIENT SOFTWARE REQUIREMENTS

- Microsoft Windows™ XP with SP2
- Windows XP display settings set to Normal font size

SUPPORTED RAD PRODUCTS

The following RAD products are supported by RADview Service Center for TDM:

- DXC-8R/10A/30/30E
- FCD-E1
- FCD-E1A
- FCD-E1L
- FCD-T1L
- FCD-E1LC
- FCD-T1LC
- FCD-E1M
- FCD-T1M
- FCD-IP
- FCD-IPM
- Megaplex-2100
- Megaplex-2200
- Optimux-45
- Optimux-45L

ORDERING

RV-SC-TDM/UNIX/#
Unix-based RADview Service Center for TDM applications. Includes RADview-HPOV/TDM and RADview-EMS/TDM element managers

Specify optional installation type:
UPG for upgrade of an existing installation
DEMO for a 60-day, fully functional evaluation version
SLA for an SLA module license
SLA/DEMO for a 60-day demo SLA license

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