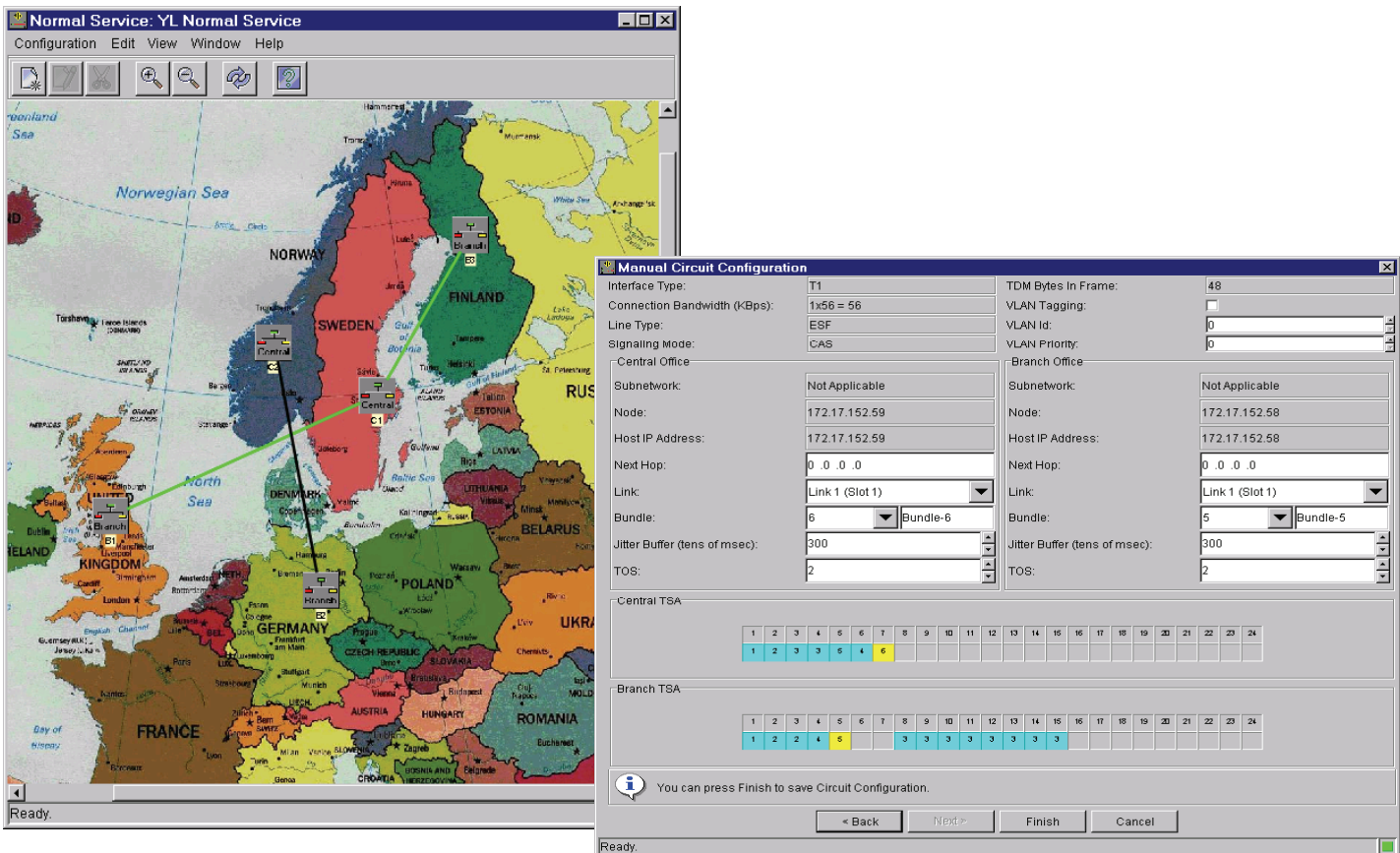


RADview-SC/TDMoIP

Network Management System for Pseudowire Applications



Network management system for pseudowire gateway configuration and service provisioning

- Easy configuration of the IPmux and Gmux TDM pseudowire gateways
- Effortless end-to-end provisioning of TDM and HDLC pseudowire connections
- Centralized management of TDM pseudowire services
- Intuitive GUI for discovery and status indication of pseudowire connections
- Client-server architecture with northbound CORBA interface for easy integration with 3rd party systems

TDMoIP
Driven®

RAD

data communications

Innovative Access Solutions

RADview-SC/TDMoIP

Network Management System for Pseudowire Applications

The RADview Service Center (SC) application is a management and service provisioning tool for RAD's IPmux and Gmux products. It offers pseudowire service provisioning, as well as embedded element management capabilities.

Provisioning services automatically from a central site rather than manual provisioning in the field improves time-to-market, reduces truck rolls, and lowers customer support costs.

RADview-SC/TDMoIP can be installed on PC or Unix stations.

The intuitive GUI with "point and click" functionality, and easy-to-follow wizards increase the efficiency and accuracy of the service provisioning process.

Service termination options are provided for deactivating, disconnecting, and removing circuits. Since the configuration information for a deactivated circuit remains in the SC database, the circuit can be reactivated with a single mouse click. SC detects all TDMoIP gateways installed on the specified sub network, associates sites, and defines circuits between the pseudowire gateways at associated sites.

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SERVICE PROVISIONING

RADview-SC/TDMoIP is a powerful management tool for provisioning and monitoring pseudowire services. It allows:

- Automatic node and configuration discovery
- Service association to network hierarchy level for ease of control and fault isolation
- "Point and click" provisioning from a central workstation.

RADview-SC/TDMoIP allows easy integration between the carrier's front office and back office systems (any third party application) due to its open system design based on client-server architecture and CORBA northbound interface.

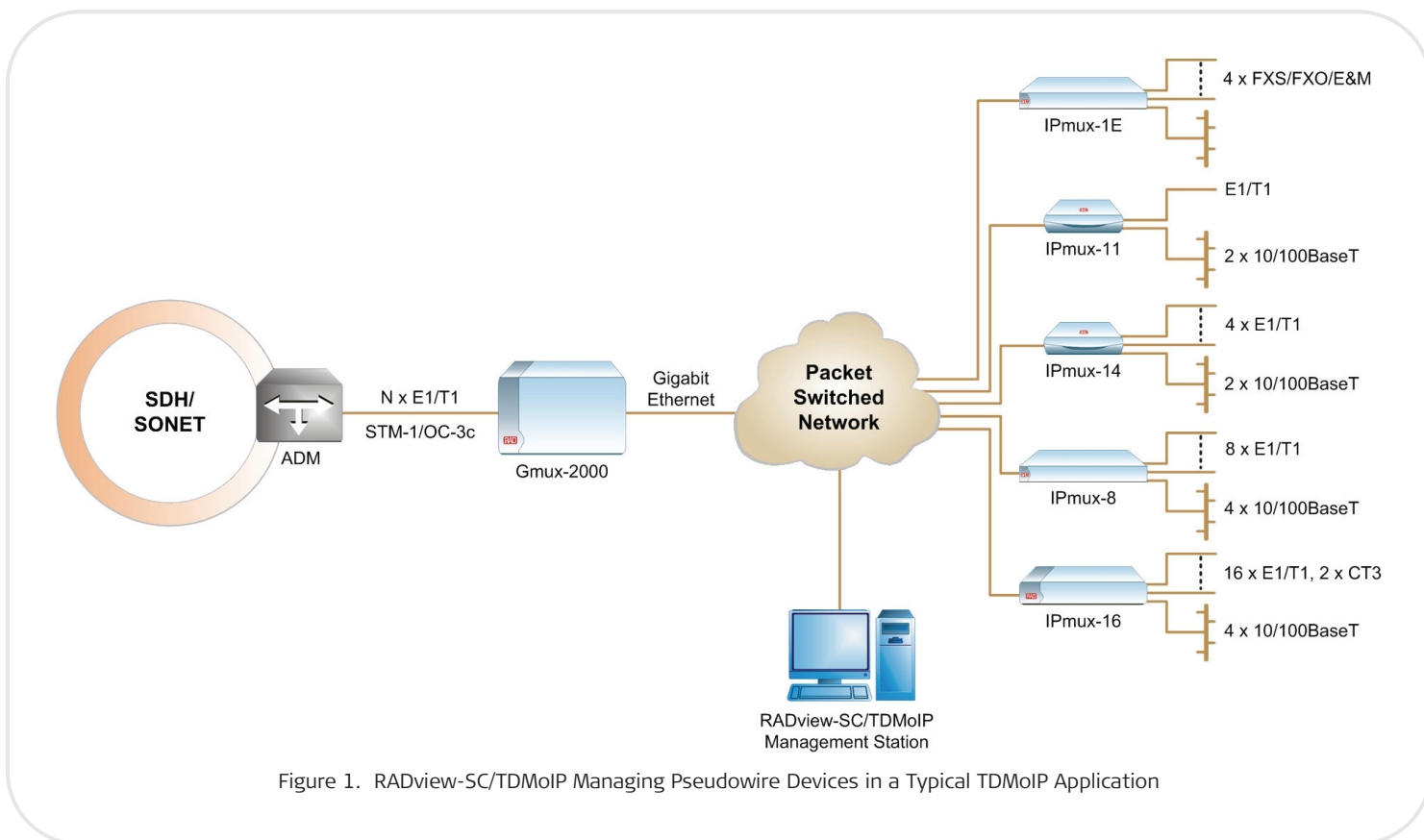


Figure 1. RADview-SC/TDMoIP Managing Pseudowire Devices in a Typical TDMoIP Application

The user can discover circuits (both valid and invalid), manipulate managed elements, view information about devices (system info, parameters etc.), and manage circuits. Two types of service are available: normal and mesh.

- Normal service represents a point-to-multipoint circuit topology where circuits can be defined between the central site and multiple branch sites. A site can house an unlimited number of nodes, distinguished by their unique IP address.
- Mesh service enables any-to-any connections between pseudowire elements.

ELEMENT MANAGEMENT

The embedded element management capability provides a powerful tool for configuration, performance, and fault management of pseudowire gateways.

Real-time statistics are collected every 15 minutes for a 24-hour period and displayed as tables and graphs for pseudowire service monitoring. Statistics include performance measurements of connectivity, delay, error rate and packet loss rate used by the carriers for QoS calculations.

Integration with HPOV and SNMPc allows managing TDMoIP devices together with other equipment (both RAD products and non-RAD products) in the same map. However, the user can zoom on and manage a device only through the RV-SC/TDMoIP map.

Specifications

MINIMUM REQUIREMENTS FOR PC-BASED SYSTEMS

Hardware

For networks consisting of up to 100 managed elements:

- PC-compatible computer based on Pentium IV, 2.0 GHz, 1 GB RAM
- Hard drive with 1 GB free disk space and NTFS partition for Informix
- CD-ROM drive
- 17-inch color monitor, supporting 1024 × 768 resolution

Notes:

- For larger networks consisting of 100 or more managed elements, see Table 1.
- For each client connected to server, add 512 MB RAM.

Software

- Microsoft Windows™ XP: service pack 1 or 2, English version, with display appearance set to Normal Fonts size
- Services: SNMP, SNMP Trap, Server
- SNMPc platform version 7.0.8, or standalone application

MINIMUM REQUIREMENTS FOR UNIX-BASED SYSTEMS

Hardware

For networks consisting of up to 150 managed elements in single user configuration:

- Sun Fire V210 Server with XVR-100 graphics card or Sun Ultra 25* (* for Solaris 10 only)
- Hard drive with 2 GB free disk space in /opt partition and 600 MB free in any partition (for Informix)
- 2 GB RAM
- 2 GB swap file
- 17-inch color monitor, supporting 1152 × 900 resolution with depth 24
- CD-ROM drive
- Printer and printer port (optional)

Notes:

- For larger networks consisting of more than 150 managed elements, see Table 2.
- For each three additional simultaneous users (X-session), add 1 GB RAM and 1 CPU.
- For each additional client (X-session), add 512 MB RAM.
- For each additional simultaneous open zoom application, add 75 MB RAM.

Table 1. HW Scaling Guidelines – Windows XP

Managed Elements	Minimum No. of CPUs and Speed	RAM
Up to 100	1 x 2.0 GHz	1 GB
100 to 200	1 x 3.0 GHz	2 GB
200 to 500	2 x 3.0 GHz Xeon	2 GB

Table 2. HW Scaling Guidelines – Solaris

Managed Elements	System	No. of CPUs	RAM
Up to 150	SUN Fire V210 Server with XVR-100 graphics	1	2 GB
150 to 300	card, or Sun Ultra (for Solaris 10 only)	1	2 GB
300 to 800		2	2 GB
800 to 1500	Sun Fire V490/V890	4	4 GB
1500 to 5000	Sun Fire V890/V890	4	8 GB

RADview-SC/TDMoIP

Network Management System for Pseudowire Applications

Software

- SUN Solaris Version 2.8, July 2003 or later, or Version 10, November 2006 or later
- HP OpenView NNM Version 7.5
- CDE 1.4
- Mozilla 1.7.6

SUPPORTED PRODUCTS

IPmux Family

IPmux-1E, IPmux-11, IPmux-14, IPmux-8, IPmux-16, Gmux-2000

Ordering

RV-SC/TDMoIP/#/@

Legend

- # Operating system:
 - PC PC-based system
 - GEN All systems (PC and Unix)
- @ Installation type (optional):
 - DEMO 60-day, fully functional evaluation version
 - UPG Upgrade of an existing installation

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