

# RADview

## Network Management Solutions



The screenshot displays the RAD - SC-TDM Client Application interface. The main window shows a network topology diagram with various nodes (FCDM, MP, DXC, FCDA) and links. The nodes are connected in a complex network structure. The Events Viewer window at the bottom shows a table of recent events.

Date/Time	Event	Entity	Name	Description
Thu Aug 01 05:43:00 IDT 2002	User label modified	NL	172.17.191.143:slot#5:port#1-172.17.191.141:slot#5:port#1	User Label was modified to: link1
Thu Aug 01 05:43:01 IDT 2002	Link creation done	NL	link1	New Topological Link Created
Thu Aug 01 05:43:31 IDT 2002	User label modified	NL	172.17.191.141:slot#19:port#1-172.17.191.139:slot#19:port#1	User Label was modified to: link2
Thu Aug 01 05:43:31 IDT 2002	Link creation done	NL	link2	New Topological Link Created

## FEATURES

- Network management functionality in accordance with ITU Telecommunication Management Network (TMN) FCAPS model
- RAD's network management portfolio implements the first three layers of the TMN model:
  - Network element layer
  - Element management layer
  - Network management layer
- Scalable and reliable architecture
- PC and Unix-based solutions provide greater flexibility for networks of different sizes
- Modular Element Management systems allow management of heterogeneous networks from a single console
- Service Center systems supporting end-to-end path management simplify network provisioning
- CORBA northbound interface facilitates integration with higher layer management systems or OSS
- Powerful security management allows restricted access to network elements and protected network resources
- Integration with Alcatel 5620™ NMS allows end-to-end path management of selected RAD devices under the Alcatel management umbrella

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### DESCRIPTION

- RADview network management solutions adhere to international standards and are interoperable in a multivendor environment.
  - The RADview tools help the network manager supervise, monitor and provision networks varying in size and product.
  - The RADview applications feature minimal setup time, maximum availability and optimal security capabilities.
- The RADview solutions conform to ITU-T Telecommunication Management Network (TMN) recommendations for SNMP management systems, known as the FCAPS model:
    - **Fault management** – detects and correlates fault in network devices, isolates faults and initiates recovery actions.
    - **Configuration management** – tracks configuration changes, configures, installs and distributes software and configuration files across the network.
    - **Accounting management** – collects accounting data and generates network usage reports.
  - **Performance management** – continuously monitors network performance (QoS, CoS) and resource allocation.
  - **Security management** – controls and restricts access to network resources.
- RAD's network management portfolio implements the first three layers of the TMN model:
    - **Network element layer** – SNMP agents within manageable products
    - **Element management layer** – element management systems supporting management of heterogeneous networks and implementing the FCAPS model

### APPLICATION

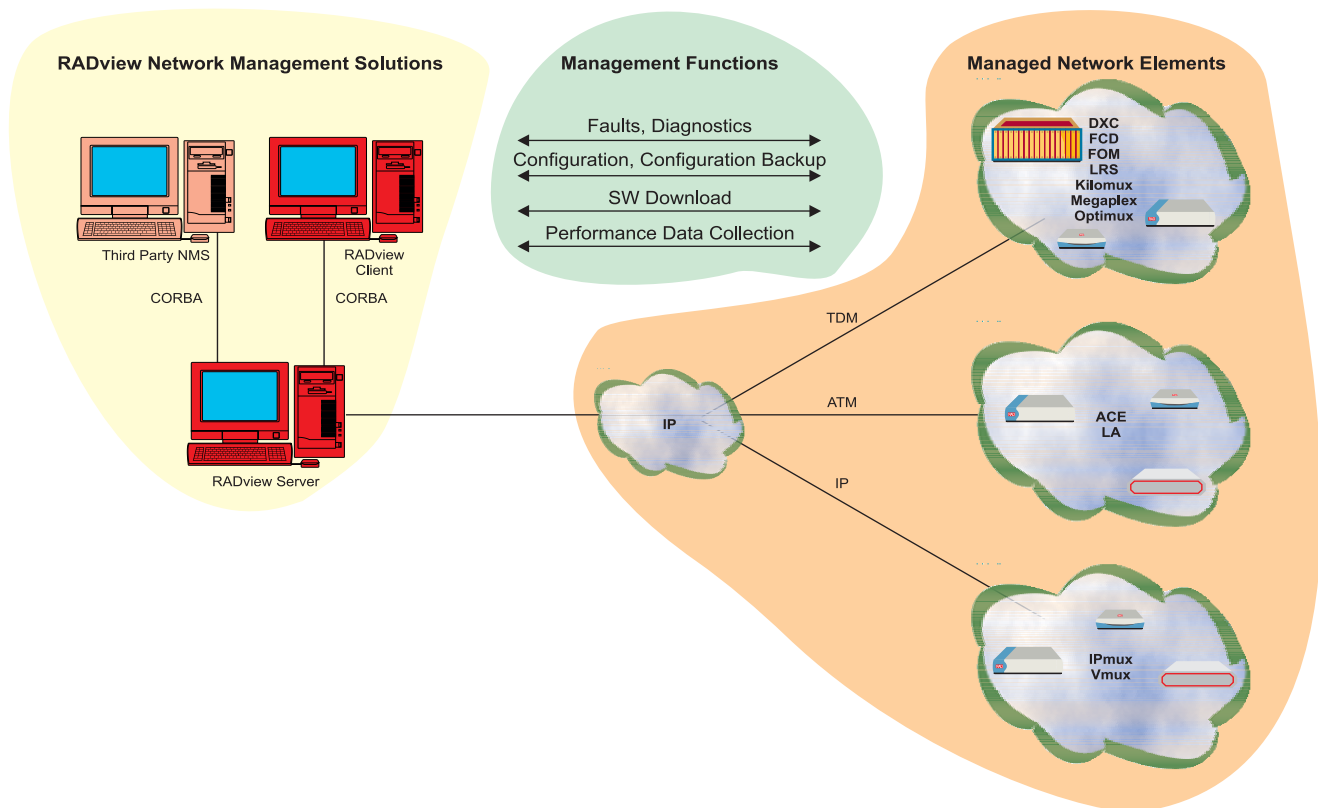


Figure 1. Management Architecture and Main Functions

## Network Management Solutions

- **Network management layer** – Service Center applications capable of provisioning services and circuits in a user friendly and powerful way, automating configuration tasks and minimizing network downtime.
- RADview element and network management systems include a CORBA northbound interface.
- CORBA enables interconnectivity and communication across heterogeneous operating systems and telecommunications networks. CORBA effectively supplies a software interface that defines data models used between various management layers. It supports multi-vendor distributed network management applications, providing the data interface between clients and servers.

### NETWORK ELEMENT LAYER

- All RAD manageable products feature a built-in SNMP-based agent, supporting relevant standard MIBs, in addition to RAD's private MIBs. The RAD MIB is written in accordance with ASN.1 and can be compiled and incorporated into any SNMP platform to allow access via SNMP to RAD devices.

### ELEMENT MANAGEMENT LAYER

- PC and Unix-based, modular element management systems allow management of heterogeneous networks, consisting of different RAD products, from a single console.

- **RADview-HPOV**, a Unix-based element management system provides security, configuration, fault, performance and accounting management. RADview-HPOV includes extensive network level functions, for example, SW download, statistics collection for ATM/TDM networks, automatic, TFTP-based device configuration download and storage, as well as network level Date/Time synchronization. RADview-HPOV is based on HP's OpenView Network Node Manager (NNM) and can coexist with third party element management systems.



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## Network Management Solutions

- **RADview-PC**, a PC-based element management system, provides configuration, fault and performance management over SNMP. RADview-PC includes network capabilities, for example, software download and date/time synchronization. RADview-PC features flexible installation modes: a cost effective standalone option, seamless integration with HP's OpenView NNM, Castle Rock's SNMPC, for side-by-side operation with third party element management systems.
- **RADview-EMS**, a multi-platform, Java-based, distributed and scalable element management system, provides security, configuration, fault and performance management capabilities. RADview-EMS includes an open CORBA northbound interface, facilitating integration with third party NMS or OSS. RADview-EMS features flexible installation modes: a cost effective standalone option, seamless integration with HP's OpenView NNM, Castle Rock's SNMPC, for side-by-side operation with third party element management systems.
- **RAD Model Descriptors** enable management of selected RAD access products by Alcatel 5620 NMS via its SNMP Descriptor Module (formerly 5520 Element Manager).
- **RADview-EEM** is an element manager and GUI-based craft terminal for Win 95/98 PC and small networks of up to 10 network elements. It enables management for R-STM-1E or DXC-STM-1 products only.

### NETWORK MANAGEMENT LAYER

- **RADview-SC TDM** is the cornerstone of the RAD family of network management solutions, simplifying service provisioning and end-to-end path management of MAP devices in mesh topology networks. The system includes automatic, optimal path detection and configuration, as well as path protection and re-route upon network resource failure. Automation of network maintenance maximizes network uptime. RADview-SC TDM includes an open CORBA northbound interface, facilitating integration with third-party NMS or OSS.
- **RADview-SC TDMoIP** is a powerful management tool that provisions and monitors TDM over IP (TDMoIP) services, provides control and monitoring of end-to-end circuits for networks comprised of the IPmux family of products. RADview-SC TDMoIP includes an open CORBA northbound interface, facilitating integration with third party NMS or OSS.
- **RADview-SC Vmux** is a powerful management tool that provisions and monitors compressed TDM over IP (TDMoIP) services, provides control and monitoring of end-to-end circuits for networks comprised of the Vmux family of products.
- **RADview-EINM** is an integrated network manager for Unix platform, supporting MAP devices and unlimited network elements, with path management capabilities for SDH equipment.

### ORDERING

Details of supported agents can be found in the individual application datasheets in this folder.



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