

RADview-EMS

Scalable Element Management System

Time	Type	Source	Instance	Description	Cleared	Acked
2004-05-05 00:48:50	Fcd155	EMS-TDM/72.17.152.38	System	Agent status changed.	<input type="checkbox"/>	<input type="checkbox"/>
2004-05-05 00:48:52	MP2100	EMS-TDM/72.17.152.194	System	Agent status changed.	<input type="checkbox"/>	<input type="checkbox"/>
2004-05-05 00:59:58	Fcd155	EMS-TDM/72.17.152.24	ETH:1	Trap: dacsMuxAlarmsTrap, LAN NOT CONNECTED ,major,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2004-05-05 00:59:59	Fcd155	EMS-TDM/72.17.152.24	ETH:1	Link down	<input type="checkbox"/>	<input type="checkbox"/>
2004-05-05 00:59:59	Fcd155	EMS-TDM/72.17.152.24	System	Trap: agnStatusChangeTrap	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2004-05-05 01:00:00	Fcd155	EMS-TDM/72.17.152.24	ETH:2	Trap: dacsMuxAlarmsTrap, LAN NOT CONNECTED ,major,	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2004-05-05 01:00:00	Fcd155	EMS-TDM/72.17.152.24	ETH:2	Link down	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2004-05-05 01:00:01	Fcd155	EMS-TDM/72.17.152.24	Link:1	Trap: dacsMuxAlarmsTrap, SIGNAL LOSS ,major,	<input type="checkbox"/>	<input type="checkbox"/>
2004-05-05 01:00:02	Fcd155	EMS-TDM/72.17.152.24	Link:1	Link down	<input type="checkbox"/>	<input type="checkbox"/>
2004-05-05 01:00:04	Fcd155	EMS-TDM/72.17.152.24	ETH:1	Link up	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2004-05-05 01:41:03	MP2100	EMS-TDM/72.17.152.201	Slot3	RESET OCCURRED	<input type="checkbox"/>	<input type="checkbox"/>
2004-05-05 01:41:04	MP2100	EMS-TDM/72.17.152.201	System	Agent status changed.	<input type="checkbox"/>	<input type="checkbox"/>
2004-05-05 01:41:05	MP2100	EMS-TDM/72.17.152.201	System	CLK CHANGED TO INTERNAL CLK SRC	<input type="checkbox"/>	<input type="checkbox"/>
2004-05-05 01:41:06	MP2100	EMS-TDM/72.17.152.201	System	Agent status changed.	<input type="checkbox"/>	<input type="checkbox"/>
2004-05-05 01:41:09	MP2100	EMS-TDM/72.17.152.201	System	CLK IS DIFF FROM MASTER CLK SRC	<input type="checkbox"/>	<input type="checkbox"/>
2004-05-05 01:41:09	MP2100	EMS-TDM/72.17.152.201	System	CLK CHANGED TO MASTER CLK SRC	<input type="checkbox"/>	<input type="checkbox"/>
2004-05-05 01:41:10	MP2100	EMS-TDM/72.17.152.201	Slot1	POWER SUPPLY'S FAN FAILURE	<input type="checkbox"/>	<input type="checkbox"/>
2004-05-05 01:41:16	MP2100	EMS-TDM/72.17.152.201	Slot9	NOT PROGRAMMED MODULE	<input type="checkbox"/>	<input type="checkbox"/>
2004-05-05 01:41:17	MP2100	EMS-TDM/72.17.152.201	Slot10	NOT PROGRAMMED MODULE	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2004-05-05 01:41:19	MP2100	EMS-TDM/72.17.152.201	Slot13	NOT PROGRAMMED MODULE	<input type="checkbox"/>	<input type="checkbox"/>
2004-05-05 01:41:21	MP2100	EMS-TDM/72.17.152.201	System	Warm start	<input type="checkbox"/>	<input type="checkbox"/>
2004-05-05 01:41:23	MP2100	EMS-TDM/72.17.152.201	Slot12,Port1	NO CARRIER SENSE	<input type="checkbox"/>	<input type="checkbox"/>
2004-05-05 01:41:24	MP2100	EMS-TDM/72.17.152.201	Slot12,Port2	NO CARRIER SENSE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2004-05-05 01:41:25	MP2100	EMS-TDM/72.17.152.201	Slot6	NOT PROGRAMMED MODULE	<input type="checkbox"/>	<input type="checkbox"/>
2004-05-05 01:41:26	MP2100	EMS-TDM/72.17.152.201	Slot6	MODULE WAS INSERTED	<input type="checkbox"/>	<input type="checkbox"/>

Multi-platform scalable Element Management System

- Multi-platform scalable Element Management System (EMS), providing security configuration, fault and performance management capabilities
- Standalone (without an SNMP platform) or integrated with SNMPc/HP OpenView NNM
- Integrates with third party NMS and umbrella system
- Available for PC-based and Unix-based systems

RADview-EMS is a modular, client-server, scalable element management system, providing security, configuration, fault, and performance management capabilities.

Advanced security management functions allow a wide span of control and command.

The system allows modular installation and management of heterogeneous networks.

RADview-EMS is backwards compatible with other RADview-PC or RADview-HPOV modules.



RADview-EMS

Scalable Element Management System

The CORBA-based northbound interface of RADview-EMS enables easy integration into the customer's umbrella NMS (Unix or Windows).

RADview-EMS can be used in a distributed network topology (see *Figure 1*) or in a single-station configuration (see *Figure 2*). It can be installed on a PC-based workstation with Windows XP or on a Unix-based workstation with Solaris 2.8.

RADview-EMS supports distribution of servers into manageable areas.

Management functions provided by RADview-EMS are divided into four different categories:

- Fault – alarm and trap handling, test and acceptance, polling service.
- Configuration (provisioning) – configuration of Network Elements (NE) via user-friendly and intuitive GUI zoom applications (see *Figure 5*).
- Performance – real-time statistics (see *Figure 3*)
- Security – controls NE access, enables NE functions and accesses logs.

RADview-EMS provides scalability by balancing the load among a number of servers (for economy in infrastructure) and distributing the management tasks (in a flexible map) between client and server, and master and slave servers as follows:

- Several clients working opposite a group of servers, managing together several groups/domains of network elements (see *Figure 1*)
- Several clients working opposite a single server, managing a single group of network elements
- Server and client on separate computers, managing a single group of network elements
- Server and client on a single computer, managing a group of network elements (see *Figure 2*).

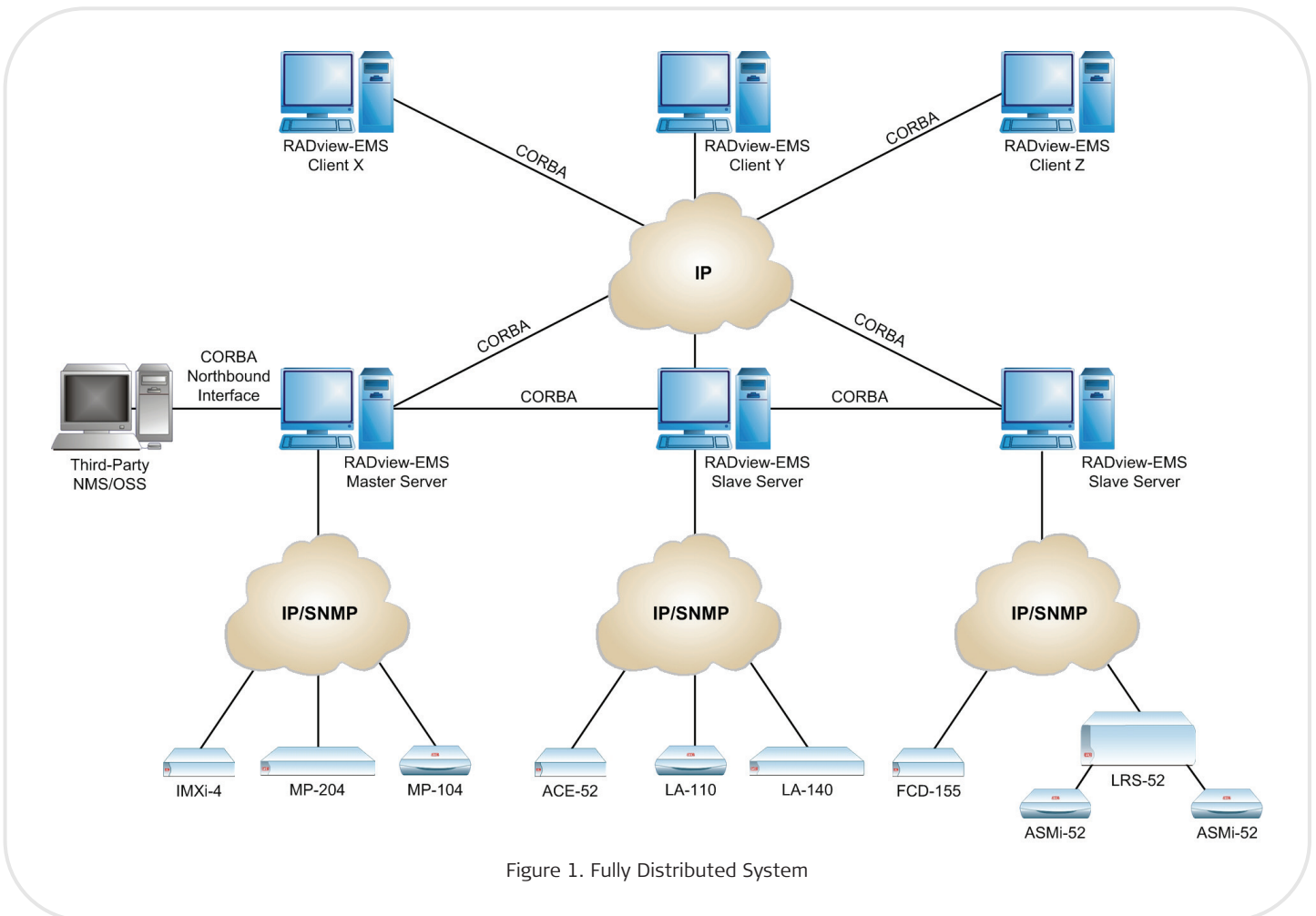


Figure 1. Fully Distributed System

Command line backup allows faster recovery of a network management station in case of failure. The backup script can be integrated into any Unix-based scheduling mechanism in order to automate network topology and configuration backup.

The LaunchDesk toolbar (see *Figure 4*) provides easy access to all the EMS functions:

- Login/Logout
- Zoom applications (see *Figure 5*)
- Event Browser
- Admin Console – Security Service, Fault Service, NER Explorer
- Log Viewer
- EMS System Console for monitoring currently active services
- Trace Monitor, Version Browser, SNMP SPY.

The EMS Security Admin Console allows the user to:

- View and manage the EMS Users' security profiles in a powerful and user-friendly way
- Create and edit security profiles
- Manage user accounts.

Specifications

PC-BASED CLIENT OR SERVER

Minimum Hardware Requirements

IBM PC or compatible with a Pentium 4,
2.0 GHz processor
1 GB RAM
Hard drive with 1 GB free disk space for installation
CD-ROM drive
One NTFS-formatted hard drive (for Informix installation)
17-inch color monitor, supporting 1024 × 768 resolution

Note: The above requirements refer to single user installations managing up to 100 network elements. For larger networks, please consult your RAD partner.

Minimum Software Requirements

Microsoft Windows XP: SP1 or SP2, English version, Display Settings set to Normal Fonts

Services: SNMP, SNMP Trap, Server

SNMPC platform version 7.0.8 (optional)

Note: RADview-EMS can also operate in standalone mode without SNMPC.

UNIX-BASED CLIENT AND SERVER

Minimum Hardware Requirements

SUN Fire V210 Server with XVR-100 graphics card, or SUN Blade 1500/2500 workstation, or SUN Ultra 25
Hard drive with 1–2 GB free space under the /opt partition
600 MB for Informix (under any partition)
1 GB RAM
Swap file twice RAM size
CD-ROM drive
17-inch color monitor, supporting 1152 × 900 resolution

Note: The above requirements refer to single user installations managing up to 100 network elements. For larger networks, please consult your RAD partner.

Minimum Software Requirements

SUN Solaris Ver. 8, Jul 2003 or later or SUN Solaris Ver. 10, Nov 2006 or later

Note: No previous SUN Solaris versions are supported.

CDE 1.4

HP OpenView NNM Version 7.5

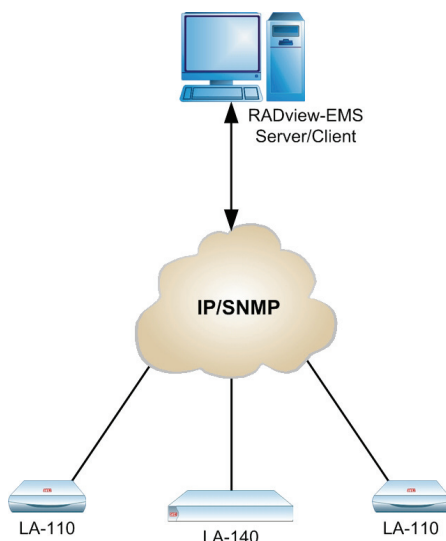


Figure 2. Non-Distributed System

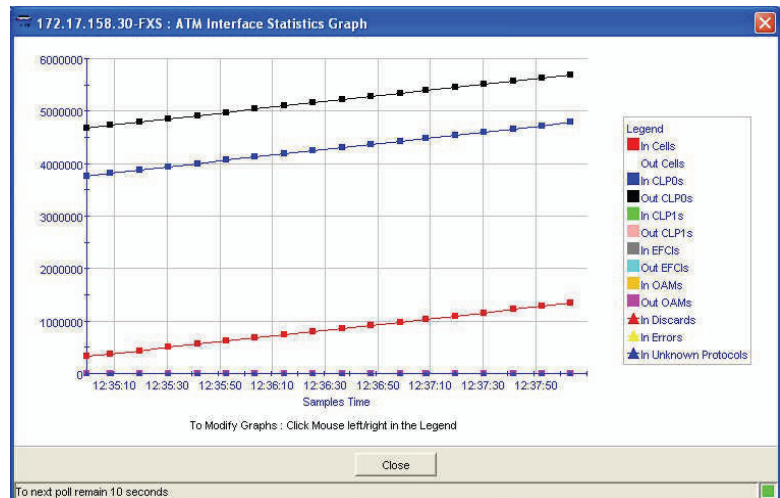


Figure 3. Statistics Graph

RADview-EMS

Scalable Element Management System

Ordering

RV-EMS-SW/*/&

Scalable Element Management System, regular installation

RV-EMS-SW/*/&/#

Scalable Element Management System, upgrade or evaluation version

Legend

* Module type (see Table 1):

- TDM** for TDM applications
- MDM** for MDM applications
- NGN** for NGN applications

& Operating system:

- PC** PC-based system
- Unix** Unix-based system

Installation type:

- UPG** Upgrade an existing installation
- DEMO** 60-day, fully functional, evaluation version

Notes:

All Unix packages include Unix-based server/client, and PC-based client.

The RADview-EMS/TDM (PC) is supplied with RADview-PC/TDM and

RADview-EMS/TDM (Unix) is supplied with RADview-HPOV/TDM.

RV-LIC

RADview license

Note: For licensing, each RAD device is assigned an Equivalent Node Weight (EMW) according to its complexity. Use RADview's License Calculator to determine the number of license points required for your installation.

Table 1. Supported RAD Products

Package	Supported Products
TDM	DXC-30 FCD-155, FCD-155E IMXi-4E1, IMXi-4T1 Megaplex-104, Megaplex-204 Megaplex-2100, Megaplex-2104, Megaplex-2200 Optimux-1551, Optimux-1553
MDM	LRS-52, ASMi-52, ASMi-52L
NGN	ACE-3100, ACE-3200, ACE-3400, ACE-3402, ACE-201, ACE-52 LA-104, LA-110, LA-130

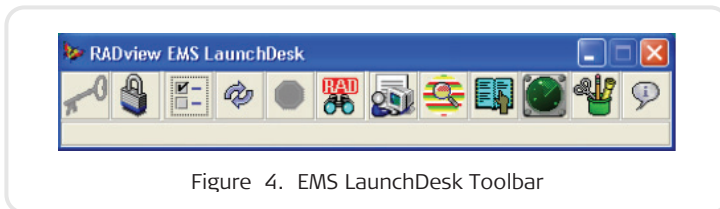


Figure 4. EMS LaunchDesk Toolbar

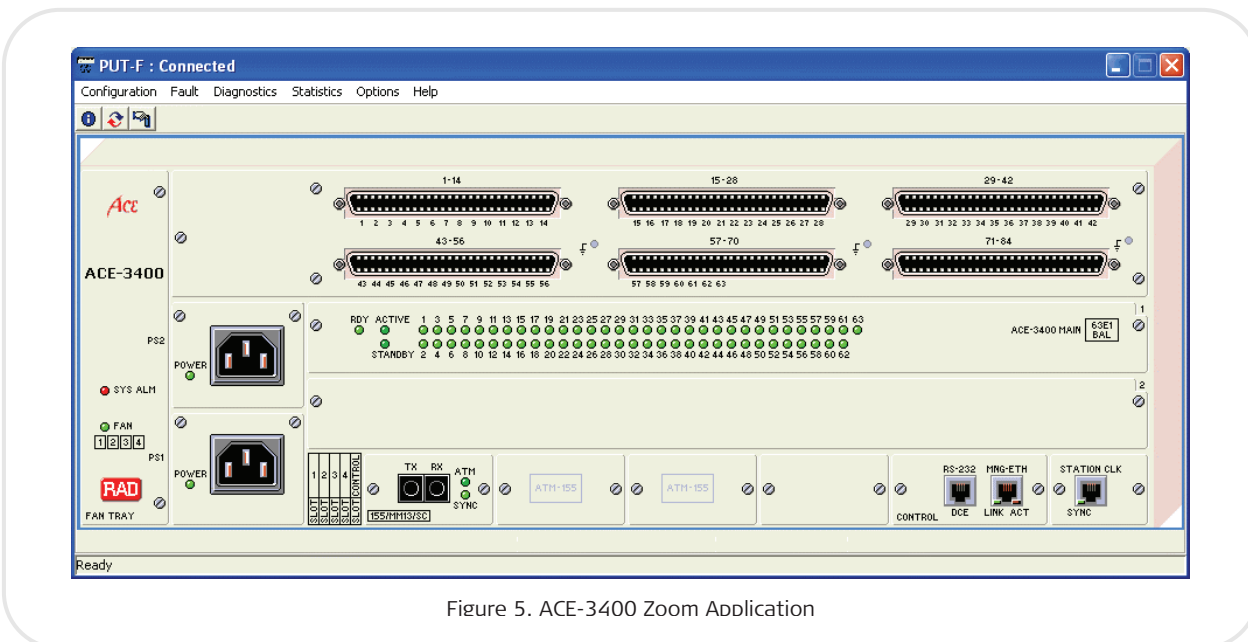


Figure 5. ACE-3400 Zoom Application

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