

# RADview

## Network Management and Orchestration System

- State of the art web interface designed to intuitively provision and monitor networks and services
- An OpenStack based orchestrator to quickly introduce virtual functions and services at the customer edge
- Equipped with secure infrastructures of carrier-class systems providing business continuity in a client-server architecture

The RADview network management and orchestration suite is comprised of the following modules:

- NMS
- Service Manager
- Performance Monitoring
- D-NFV Orchestrator.

### NMS

RADview features an amazing graphical user interface for topology, management and monitoring of the network elements and includes the following utilities:

- Topology map to layout topologies, visually propagate alarm severity, search products and services and locate devices geographically
- Inventory, for displaying physical and virtual resources like network elements, virtual machines, cards, ports and logical objects
- Tasks, for performing a variety of maintenance operations on a large number of objects from one central location
- Zero-Touch, for automatically discovering network elements and loading initial software and configurations, executing CLI scripts, and more.
- Fault management, for detecting probable causes, displaying event and

alarm records, and forwarding the records to upper OSS systems.

- User management, for tracking user activity in the network and designating complex security access rights to individual and group user accounts.

### SERVICE MANAGER

This module is designed to expedite the process of building up multi-service Carrier Ethernet networks. It offers applications of service creation, service activation tests (Y.1564) and activating the SLA assurance process from a single screen.

Service Manager helps operators to plan their services offline, before they actually deploy the network devices.

Service Manager allows users to quickly set up services using RADview templates, which only require entering a few service-specific parameters while creating a service.

With its network planning capabilities, the module allows service providers and network operators to tailor networks and services architecture to their performance and capacity needs while ensuring resource optimization.

### PERFORMANCE MONITORING

This module is an SLA assurance system, enabling real-time and on-going monitoring of Ethernet and IP service performance by collecting, analyzing and reporting KPI (key performance indicators) metrics. Service providers use the system to assure the SLA and monitor traffic of customers who utilize their service, and propose bandwidth upgrades.

Measured metrics are based on standard Y.1731 and TWAMP protocols. The RADview-Performance Monitoring module allows service providers to easily evaluate actual performance over time and compare it to their committed SLA.

With real-time SLA, mobile operators can quickly detect loaded regions in their network and take action to avoid service failure.



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**D-NFV Orchestrator.** RADview D-NFV Orchestrator operates the virtual network function infrastructure. With its embedded OpenStack control node, it installs and manages virtual machines on RAD's devices and establishes traffic between physical ports and virtual switch.

### MARKET SEGMENTS AND APPLICATIONS

RADview provides solutions for both service providers and critical infrastructure communications.

### TECHNOLOGY AND ARCHITECTURE

RADview is a modern carrier-class network management system. It is based on distributed client-server architecture to optimize the use of network resources. The system features an embedded carrier-grade database and offers open interfaces for integration with external systems.

Supporting various APIs, such as REST, JSON and SNMP, RADview smoothly interacts with higher level management systems to communicate essential network information to service, operations and business management functions.

The system is scalable, providing solutions for small installations as well as growing networks.

By serving as a mediation layer between the various network elements (NEs) and the umbrella system, RADview minimizes the integration costs associated with new NE additions.

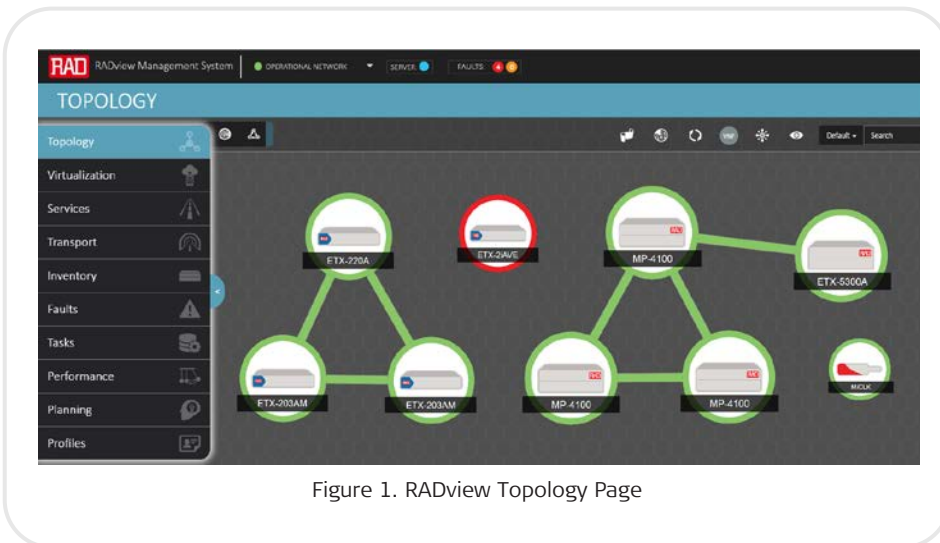


Figure 1. RADview Topology Page

Table 1. Specifications

	Hardware to Manage up to 100 NEs	Software
<b>Windows</b>	CPU: Intel Xeon E5-2603 1.80 GHz RAM: 32 GB Disk space: At least 240 GB	Microsoft Windows 10/8.1/8/7 64-Bit Professional Edition or Microsoft Windows Server 2012 R2 (64-Bit) Standard Edition Windows default input language set to English TFTP/SFTP Server
<b>Linux</b>	Same as Windows	RedHat Enterprise Linux (REHL) Version 7.2 64-bit or CentOS Version 7.2 64-bit

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### Ordering

#### RECOMMENDED CONFIGURATIONS

##### RV-SW/WIN

RADview system for installation on a Windows-based server, with license for 5 clients

##### RV-SW/LINUX

RADview system for installation on a Linux-based server, with license for 5 clients

##### RV-LIC/CPE

License to manage one CPE device, CPE devices are all RAD products except for aggregation devices (MP-4 and ETX-5)

##### RV-LIC/AGGREGATION

License to manage one aggregation device

##### RV-LIC/SM

License for Service Manager

##### RV-LIC/CPESM

License to manage one CPE device with Service Manager (CPE includes all RAD products excluding the MP-4 and ETX-5).

##### RV-LIC/AGGRSM

License to manage one aggregation device with Service Manager

##### RV-LIC/DNFVO

License for D-NFV Orchestrator

##### RV-LIC/DNFV

License to manage one D-NFV card

##### RV-LIC/PMSESSION

License to monitor one session with the performance monitoring module

##### RV-LIC/CLIENT

License for additional RADview client

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Your Network's Edge