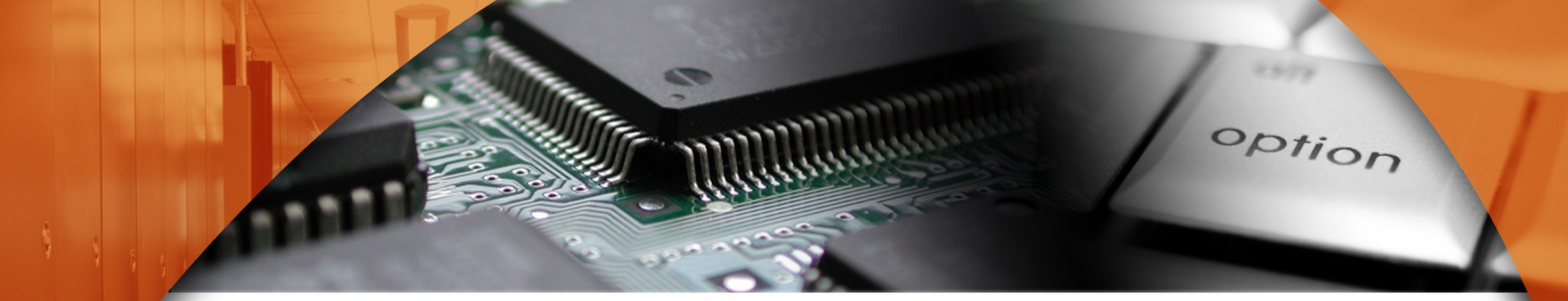
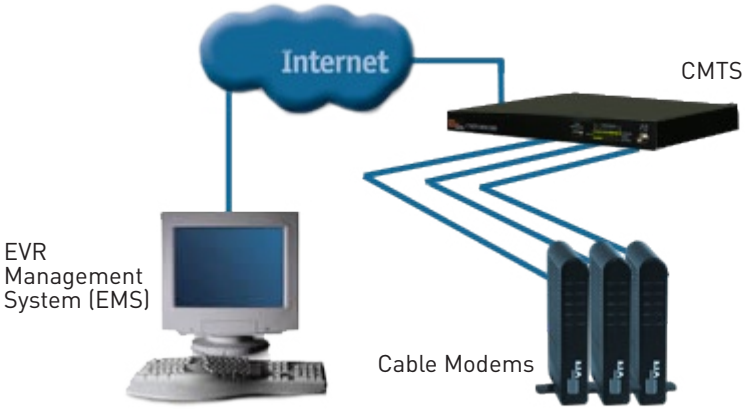


EVR Management System

Management Software with Advanced QoS Manager

Features

- DOCSIS Provisioning
- Subscriber Management
- CMTS configuration
- Throughput based Billing Interface
- Multiple Device Management
- Network Flexibility
- System Analysis
- Charting Engine
- Reports Engine
- Network Statistic Collection



EVR's Management System (EMS) is a complete DOCSIS provisioning system, providing Data over Cable systems a Web Based Management and Control interfaces.

Both EVR CMTS and EMS features a One-Stop-Shop solution including all Head-End necessary functions to provide superior network monitor and control over the network devices.

The EMS features all necessary DOCSIS/EuroDOCSIS provisioning servers as well as specially designed subscribers and bandwidth management functions.

Introducing EMS, EVR is offering a complete solution with EVR CMTS and cable modems. This End-to-End solution reduces the operator's operational costs and allows them to benefit from EVR's experience expanding operators ability to control, manage and monitor the broadband service at all times.

Perfectly suited for EVR CMTS products, EMS is a low-cost, web-based tool that excels in performance and flexibility.

Architecture

EMS implements a client-server Web-based architecture. The EMS server runs under the Linux operating system.

EMS core engine interfaces all network devices (CMTS, Cable Modes) using SNMP and then stores the required data on the MySQL database. This method enables the EMS Web Server to run dynamic web pages (PHP) interfacing the EMS core engine and database displaying all the relevant information in a user friendly easy-to-use fashion.

Management Software

Specifications:

Subscriber Access Control

The Subscriber Access Control system supports advanced access control, which is performed by the authentication and authorization module — a part of the EMS provisioning system, giving service providers control of subscriber access to the network. Operators can be confident of their system security because authorized and authenticated subscribers can join the network. Providers are able to adjust and enforce service policy for any customer with a unique configuration file. The unique configuration file module uses a dynamic MIC creation algorithm that guarantees the file authenticity. This algorithm uses EVR-CMTS dynamic MIC creation capabilities.

Subscriber Management

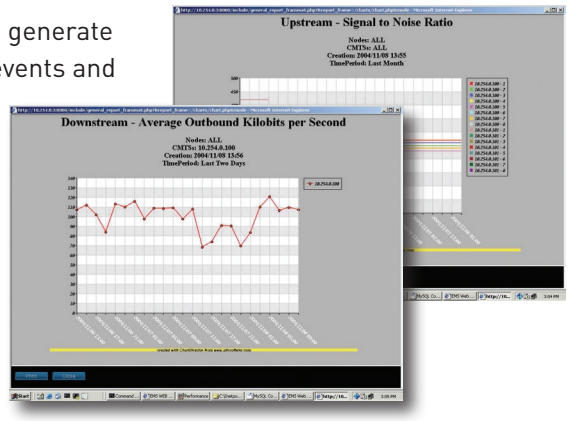
EMS makes it easy to maintain and modify a subscriber database. The EMS subscriber database interface displays a list of all subscriber records including a clear indication of whether any subscriber is registered or unregistered.

CMTS Configuration

The EMS CMTS configuration windows allows the operators to configure the CMTS interfaces according to the DOCSIS MIBs and private MIBs including channel frequencies, modulation profiles, MAC configuration parameters etc.

Charts & Reports

Using the including chrating and reports modules, EMS can generate various types of reports and charts based on the collected events and statistics, stored on the EMS database.



EMS service components:

- WEB server
- Radius Server
- MYSQL server
- TFTP server
- TOD agent

Server Software Requirements

- Linux Redhat 9, Including:
- DHCP server
- Web Server
- RPM as specified in the user manual

Server Hardware Requirements

- Pentium 4, 2GHz CPU
- 256MB of RAM
- 40GB hard disk (RAID system recommended)
- SVGA Graphics Accelerator,
- 1024 x 800 resolution, 256 bit color

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EVR: a member of the Technoprises group