

Common Element Manager

A comprehensive, intuitive management system for NewNet Secure Transactions Total Control and Access Guard

Simple, Intuitive Interface

Easy-to-use graphical interface to view system status and device availability at a glance

Supports Multiple Platforms

Utilize network management platform of choice, leveraging existing equipment investment

Highly Customizable

XML interface and scripting API's, providing a wide variety of options for developing custom device management extensions and clients

Flexible Architecture

Client and server components can be separated, giving flexibility to deploy the management system to fit specific needs and requirements

Value-Added Features

Customizable device folders and views, and enhanced security and access options.

OVERVIEW

The Common Element Manager (CEM) features an easy-to-use graphical interface that enables network operators to quickly view system status and device availability. NewNet's CEM is based on Java architecture and interoperates with service providers' network management platform of choice, enabling network operators to rapidly develop and deploy new customized applications.

CEM Product Features

The CEM provides flexible, centralized management for the Total Control and AccessGuard family of products. This powerful solution enables performance, fault, and configuration management of single or multiple Total Control and AccessGuard chassis in all NewNet-based service environments, including data systems.

Network operators can easily accomplish tasks using the CEM such as global configuration of groups of Total Control and AccessGuard, perform bulk software downloads, and apply performance monitoring and troubleshooting across all NewNet-based networks. The solution enables oversight of third-party SNMP MIB-II compliant devices and advanced features including custom device folders, convenient device displays, high-level security, device control, and configuration services.

The CEM is Java based and runs on platforms supported by Java 2 SE Version 1.5 and communicates with the Total Control chassis via the network management card.

Value-Added Packages

Performance & Capacity Management

- On-demand analysis charts
- Scheduled performance reports
- Over-Capacity trend forecasting
- Real-time Dashboard Performance Monitor

Physical Interfaces

- Assign templates to various equipment (batch configuration)
- Audit equipment vs. template (showing deviations)
- Apply templates to re-provision equipment

CDR/RADIUS Accounting Server

- Ad-hoc queries and analysis charts
- Traffic count and data utilization reports

Physical Interfaces

- Operator selects what events, which equipment, who to notify, and how to notify

Device Learning Wizard

- Allows CEM to manage devices that do not have built-in management modules

Standard Interface Across Total Control Environments

NewNet's CEM provides the ability to control the enhanced data services, IP telephony, and wireless access environments using a single, easy-to-use management interface. This minimizes the need for operator training, while maximizing operator efficiency.

Multi-platform Support

The Common Element Manager System is designed for Java 2 SE V 1.5 Compliant platforms, giving service providers additional freedom in choosing the management platform that best suits their organizational needs. In addition, the NewNet solution can be installed on diverse access platforms, providing extra configuration flexibility.

Flexible Client/Server Architecture

Based on a client server architecture that supports multiple graphical user and command line interfaces, the CEM System gives network operators an array of management options. Client and server components can be installed on a single system or separated in ways that suit customer requirements. For example, the CEM server component could be situated adjacent management devices, with the CEM client deployed in close proximity to operations personnel. Plus, CEM architecture provides the ability to create customized clients to meet the needs of individual NewNet customers.

Technical Specifications

The system also includes an XML interface and scripting APIs, providing a wide variety of options for developing custom device management extensions and clients. The Flexible Client/Server Architecture allows for Client and server components to be separated, giving network operators the flexibility to deploy the management system in ways that best suit their needs. Additionally, it supports an array of advanced features, including: customizable device folders and enhanced security and access options.

Software Requirements

Operating system with Java™ 2 Runtime Environment, Standard Edition, V 1.3, (optional) HP Openview
UNIX Network Node Manager 6.1 or higher.

Hardware Minimum Requirements

Server

450Mhz CPU–Pentium™ III or Later UltraSPARCTM II, Later 256MB of memory and 500MB of free disk space

Client

450Mhz CPU–Pentium™ III or Later UltraSPARCTM II, Later 128MB of memory, and 50MB of free disk space

