

# Common Element Manager 2.0

Next Generation dashboard powered, user friendly, web management system for NewNet's STC, Total Control STG, and Access Guard 1000 Systems

## Informative, 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

Web based architecture 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) 2.0 features a next generation, easy-to-use web based graphical interface that enables network operators to instantly view system status, transaction operations, volume performance and device availability with dynamic dashboards, informative statistics and intelligent analytics. 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 and operates in Cloud, Virtual and Datacenter environments.

## CEM Product Features

The CEM provides flexible, centralized management for the STC, Total Control STG and AccessGuard family of products. This powerful solution enables performance, fault, and configuration management of single or multiple STC, Total Control STG 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 STC, Total Control STG and AccessGuard, perform bulk software downloads, view performance monitoring and exercise 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 SE Version 1.8 and communicates with the NewNet systems and applications via the SNMP protocol.

## Value-Added Packages

### Transaction Monitoring & Dashboards

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

### CDR/RADIUS Collector

- Collect CDRs and display in real time



COMMON ELEMENT MANAGER

## Event Notification

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

## Files & Data Management

- Allows CEM to enable users to access and view critical files and data streams

## Standard Interface Across STC, STG, AG1K 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 SE V 1.8 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.

## Web Driven Flexible Secure 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 Standard Edition, V 1.8; Windows 64bit OS, 2022/24 Server OS; or Oracle Linux 8 or Redhat Linux 8.x/9.x

## Hardware, VM, Browser Minimum Requirements

### Server

2 physical cores (or 4 vCPUs), Intel, AMD, or equivalent, 64-bit architecture, 16 GB RAM, 100 GB free disk space

### Client Browser

MS Edge, Chrome, Mozilla Firefox

