

Common Element Manager

COMPREHENSIVE, INTUITIVE MANAGEMENT SYSTEM FOR
TOTAL CONTROL® 1000 UNIVERSAL GATEWAY, TRANSACTION
GATEWAY, AND WIRELESS ACCESS SYSTEMS

KEY BENEFITS

Simple, Intuitive Interface

The UTStarcom common element manager (CEM) features an easy-to-use graphical interface that enables network operators to view system status and device availability at a glance.

Supports Multiple Platforms

Based on Java™ architecture, the UTStarcom manager enables service providers to utilize their network management platform of choice, allowing them to leverage their existing equipment investment.

Highly Customizable

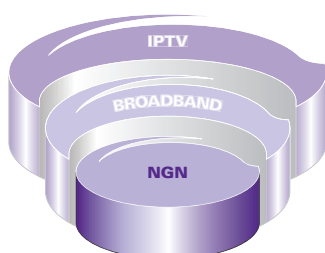
The UTStarcom solution includes an XML interface and scripting APIs, providing a wide variety of options for developing custom device management extensions and clients.

Flexible Client/Server Architecture

Client and server components can be separated, giving network operators the flexibility to deploy the management system in ways that best suit their needs.

Extensive Value-Added Features

An array of advanced features, including customizable device folders and views, and enhanced security and access options, add superior value to this robust, carrier class system.

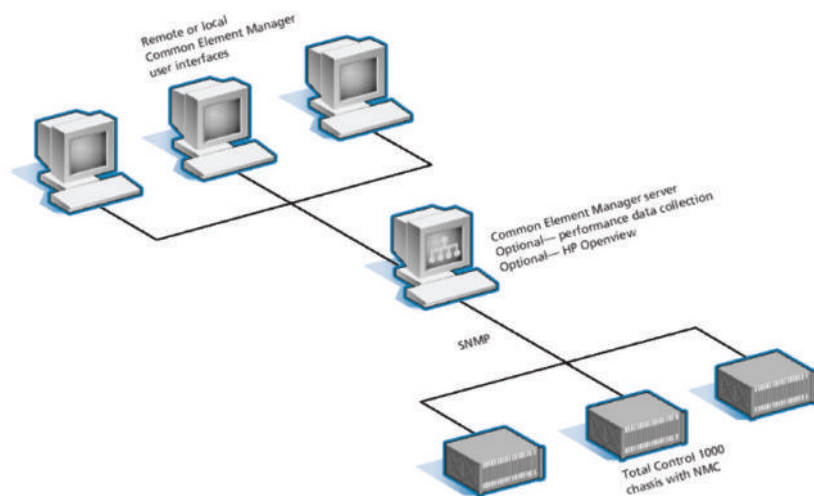


The UTStarcom® common element manager (CEM) provides flexible, centralized management for the Total Control®

1000 family of products. This powerful, next-generation solution enables performance, fault, and configuration management of single and multiple Total Control 1000 chassis and their components in all UTStarcom-based service environments, including enhanced data systems, IP telephony, and wireless.

Using the UTStarcom CEM's comprehensive, integrated management capabilities, network operators can easily accomplish tasks such as global configuration of groups of Total Control 1000 chassis, perform bulk software downloads, and apply performance monitoring and troubleshooting across all UTStarcom-based networks. The solution enables oversight of third-party SNMP MIB-II compliant devices. Advanced, value added features include customizable device folders, convenient device displays, high-level security and device control, and advanced configuration services.

A Java™-based solution, the UTStarcom CEM runs on platforms supported by Java 2 SE Version 1.3, enabling service providers to use their server of choice, thus leveraging their existing equipment investment. Features include a flexible client-server architecture and easy-to-use graphical interfaces that allow network operators to view system status at a glance. In addition, the solution provides a common look and feel across all UTStarcom service environments as well as open XML interface and scripting application interfaces, enabling network operators to rapidly develop and deploy



The UTStarcom 5115 communicates with the Total Control chassis via the

network management card (NMC).

STANDARD INTERFACE ACROSS UTSTARCOM ENVIRONMENTS

The UTStarcom CEM provides the ability to control UTStarcom 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 UTStarcom CEM is designed for Java™ 2 SE V 1.3-compliant platforms, giving service providers additional freedom in choosing the management platform that best suits their organizational needs. In addition, the UTStarcom 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 UTStarcom CEM 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 UTStarcom customers.

Data, Wireless, and IP Telephony Management Solutions

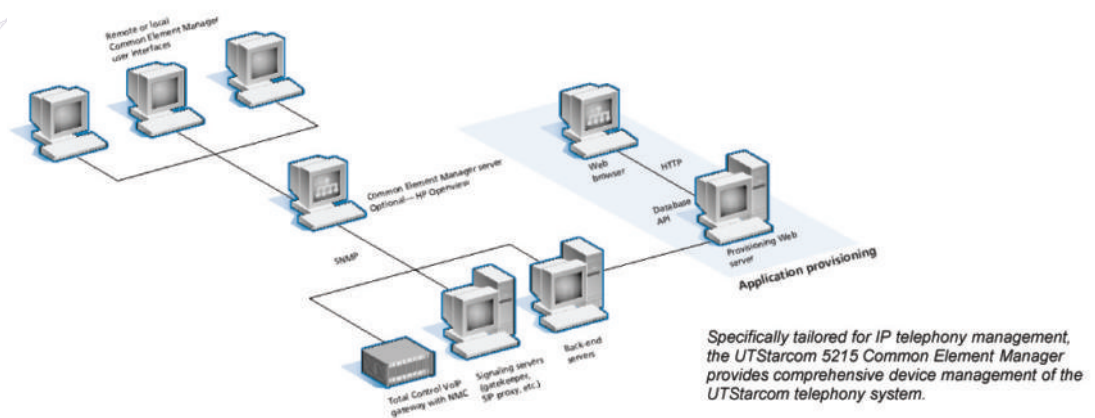
UTStarcom offers three variations of the CEM designed to support UTStarcom-based enhanced data system, IP telephony, and wireless networks.

UTStarcom 5115 Common Element Manager—This solution provides comprehensive device management for the UTStarcom Total Control 1000 enhanced data system and supports Total Control system cards, including quad modems, dual trunk cards, HiPerDSP cards, HiPerARCs and ARCs, HiPerNMCs and NMCs, and SDH and DS3 cards.

UTStarcom 5215 Common Element Manager—Specifically designed for IP telephony management, this version of CEM provides comprehensive

device management of the UTStarcom IP telephony system, supporting the Total Control 1000 chassis and cards, UTStarcom 4200 gatekeeper, UTStarcom 4220 4200 gatekeeper, UTStarcom 4220 SIP proxy server, and UTStarcom 7000 series backend servers for IP telephony.

UTStarcom 5315 Common Element Manager—This CEM package enables service providers to manage their UTStarcom-based next-generation wireless networks. It supports UTStarcom second-generation (2G) high-density products and third-generation (3G) products. Supported 2G products include the Plus, CEM architecture provides the UTStarcom EdgeServer III (high-density gateway), HiPerArc, quad modem, PRI interface, and NMC cards, as well as Steel-Belted Radius Advanced Wireless Edition (AWE) for UTStarcom. Supported 3G products include the Total Control 1000 packet data serving node (PDSN), Total Control 1000 home agent (HA) card set, UTStarcom 4301 home agent control node (HACN), UTStarcom 4302 foreign agent control node (FACN), Total Control 1000 NMC, and the Steel-Belted Radius AWE for UTStarcom Foreign (AAA) server.



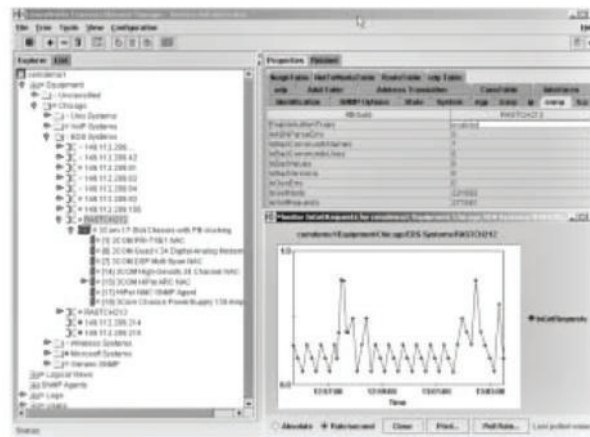
UTSTARCOM 5112 PERFORMANCE DATA COLLECTION MODULE

An optional enhancement for UTStarcom 5115 Common Element Manager, this module provides a powerful tool service providers can use to fine-tune their networks for greater performance and cost efficiencies, and for enforcing Service Level Agreements (SLAs). The module collects

performance statistics from the Total Control 1000 platform via Radius records and SNMP polling, enabling the generation of reports that can be used to view information about network use and performance.

Specifically tailored for IP telephony management, the UTStarcom 5215 Common Element Manager provides comprehensive device management of the UTStarcom telephony system.

UTStarcom-based access environments are easily managed using the UTStarcom common element manager's graphical interface.



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Technical Specifications



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 UltraSPARC™ II, 256MB of memory, and 500MB of free disk space.

Client

- 450Mhz CPU—Pentium™ III or UltraSPARC™ II, 128MB of memory, and 50MB of free disk space.

ORDERING INFORMATION

Consult your UTStarcom representative for ordering information.

Please note the information contained herein is for informational purposes only. Technical claims listed depend on a series of technical assumptions. Your experience with these products may differ if you operate the products in an environment, which is different from the technical assumptions. UTStarcom reserves the right to modify these specifications without prior notice. UTStarcom makes no warranties, express or implied, on the information contained in this document.

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About UTStarcom, Inc.

UTStarcom is a global leader in IP-based, end-to-end networking solutions and international service and support. The company sells its broadband, wireless, and handset solutions to operators in both emerging and established telecommunications markets around the world. UTStarcom enables its customers to rapidly deploy revenue-generating access services using their existing infrastructure, while providing a migration path to cost-efficient, end-to-end IP networks. Founded in 1991 and headquartered in Alameda, California, the company has research and design operations in the United States, China, Korea and India. UTStarcom is a FORTUNE 1000 company. For more information about UTStarcom, visit the company's Web site at www.utstar.com

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