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security to be free

CM7 Network Manager
Element Management for High Speed Encryptors

CM7 (CypherManager™) Network Manager is an encryptor management platform. Designed as an element manager, it enables the smooth management of Gemalto's broad range of SafeNet CN and CS high speed network encryption devices, across a broad range of networks for protocols such as Ethernet and Fibre Channel.

Management Made Easy

CM7 manages all aspects of a distributed network, including real-time status monitoring, configuration changes, and certification. CM7 is a Windows- or Linux-based application that loads onto a PC and uses SNMPv3 to configure, manage, and monitor your encryptors. The management session is secure and encrypted.

Featuring a simple, intuitive user interface, CM7 provides users with the ability to view and configure multiple devices on screen at the same time—making the configuration of endpoints quicker and easier.

CM7 also provides a graphical view of encryptors under management on the network. Users can apply a series of 'lenses' to quickly drill down to the information needed, and 'smart filters' allow viewing of encryptors by trust domain, policy domain, firmware version, and/or network policy.

The user manages a unit via a dedicated RJ45 management port on the front panel. If desired, in-band management can be used to provide remote management of devices across the encrypted network.

In the case of Ethernet encryptors, units can be configured in point-to-point mode or multipoint mode with up to 509 units.

Certified Security

CM7 provides secure local and remote management of the entire CN and CS encryptor range. In addition to providing device configuration and monitoring, CM7 can be configured as the Certificate Authority (CA) for the encryptors in your network. Each encryptor must have a signed X.509 certificate in order to establish a trusted connection. Typically, a single copy of CM7 would be configured on a secure PC as the CA and used to certify all of the encryptors

CM7 Benefits

CM7 offers the following benefits:
> Secure in-band and out-of-band remote management using SNMPv3
> Automatic detection and management of SafeNet encryptors
> Real-time monitoring and display
> Integrated certificate authority
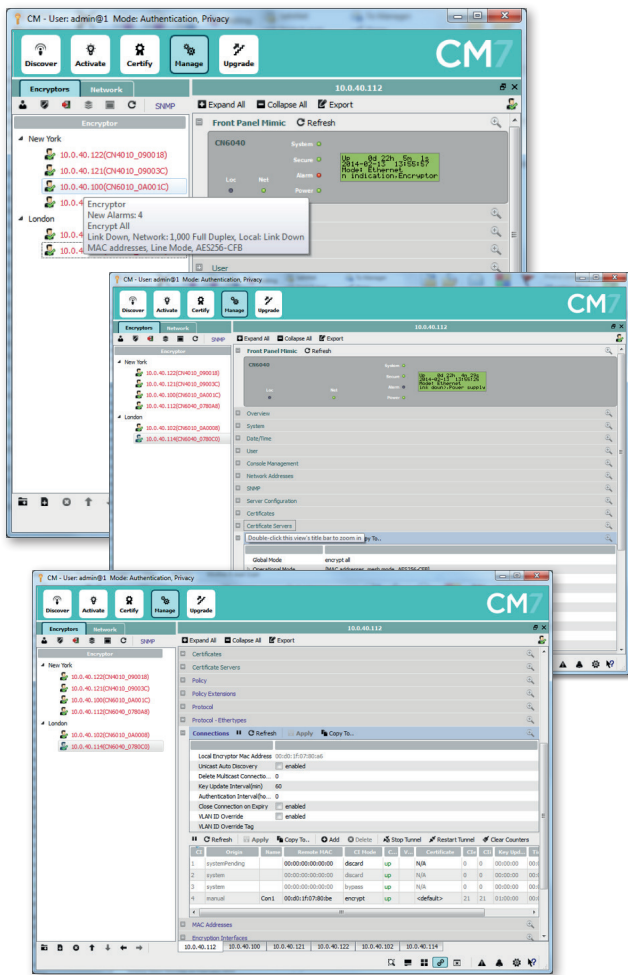> Purpose-built graphical management tool

in the network. The encryption units are tamper resistant; any attempt to physically access the unit will destroy all certification and key material, returning the unit to its factory (unenrolled) state.

Compliance to the Highest Standards

CM7 monitors the SNMP traps that SafeNet encryptors use to report events and alarms to the network management system (such as OpenView or Tivoli). The encryptors themselves maintain audit logs (operator actions), event logs (changes), and alarm logs (error states). These logs can be viewed within CM7, or saved and exported for archive or review.

Encryption is based on the AES algorithm with 256-bit keys, and automatic key updates change the data encryption key every 1–60 minutes (user defined). The encryption mode is CFB or Counter mode for units running at up to 1 Gbps, or Counter mode for 10 Gbps.

SafeNet encryptors and the CM7 solution have been accredited to the FIPS 140–2 and Common Criteria EAL4+ international security standards.*

Technical Specifications

> Purpose-built graphical management tool
> Real-time status monitoring and management for multiple devices
> Integrated X.509v3-compliant Certificate Authority
> Role-based access control
> One-click group policy control
> Dedicated management interface (out-of-band) or via the encrypted interface (in-band)
> SNMPv3 remote management
> SNMPv2c traps
> SNMPv1 read-only monitoring
> IPv4 and IPv6 capable
> Supports Syslog, NTP
> Alarm, event, and audit logs
> Command line serial interface

Supported Devices
> Ethernet encryptors
> Fibre Channel encryptors

Security Standards*
> FIPS 140–2
> Common Criteria EAL4+

About Gemalto's SafeNet Identity and Data Protection Solutions

Gemalto's portfolio of SafeNet Identity and Data Protection solutions enables enterprises, financial institutions and governments to protect data, digital identities, payments and transactions–from the edge to the core. Our solutions take a data-centric approach to security with innovative encryption methods, best-in-class crypto management, and strong authentication and identity management to help customers protect what matters, where it matters.

In-Band Management with CM7
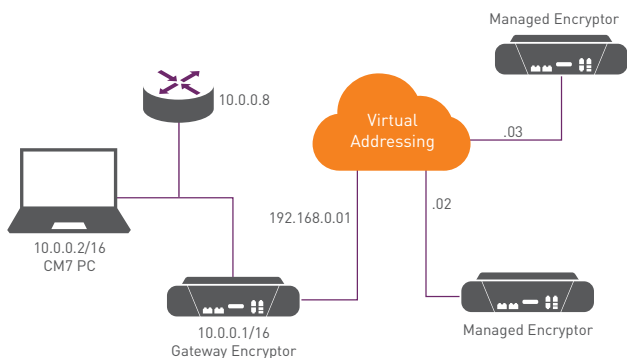
*CM6 is certified FIPS 140-2, Common Criteria EAL4+ and CAPS (UK).

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