

# SENETAS CM7 NETWORK ENCRYPTION MANAGER

ELEMENT MANAGEMENT FOR SENETAS  
HIGH-ASSURANCE ENCRYPTORS

# Senetas CM7 (CypherManager™) Network Encryption Manager is an encryptor management platform. Designed as an element manager, it enables user friendly and easy management of the broad range of Senetas CN network encryptors across all Layer 2 Ethernet and Fibre Channel network protocols and topologies.

**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 may be configured in point-to-point mode or multipoint mode with up to 509 units.

## HIGH-ASSURANCE CERTIFIED SECURITY

CM7 provides secure local and remote management of the entire Senetas CN encryptor range. In addition to providing device configuration and monitoring, CM7 may 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 in the network. The encryption units are tamper proof; any attempt to physically access the unit will destroy all certification and key material, returning the unit to its factory (unenrolled) state.

## CM7 BENEFITS

CM7 offers the following benefits:

- > Secure in-band and out-of-band remote management using SNMPv3
- > Automatic detection and management of Senetas encryptors

- > Real-time monitoring and display
- > Integrated Certificate Authority
- > Purpose-built graphical management tool

## COMPLIANCE TO THE HIGHEST STANDARDS

CM7 monitors the SNMP traps that Senetas 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 may 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.

Senetas encryptors and CM7 have been certified to the FIPS 140-2 and Common Criteria EAL4+ international security standards.\*

## TECHNICAL SPECIFICATIONS

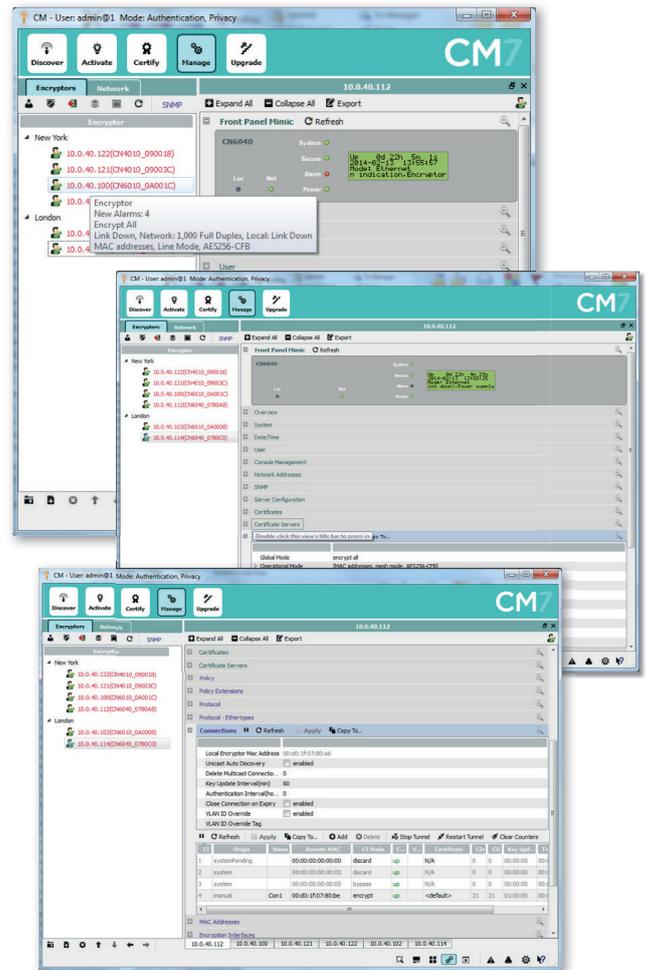
- > Purpose-built graphical management tool
- > Real-time status monitoring and management for multiple devices
- > Integrated X.509v3-compliant Certificate Authority
- > Role-based access control
- > One-click group policy control
- > Dedicated management interface (out-of-band) or via the encrypted 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

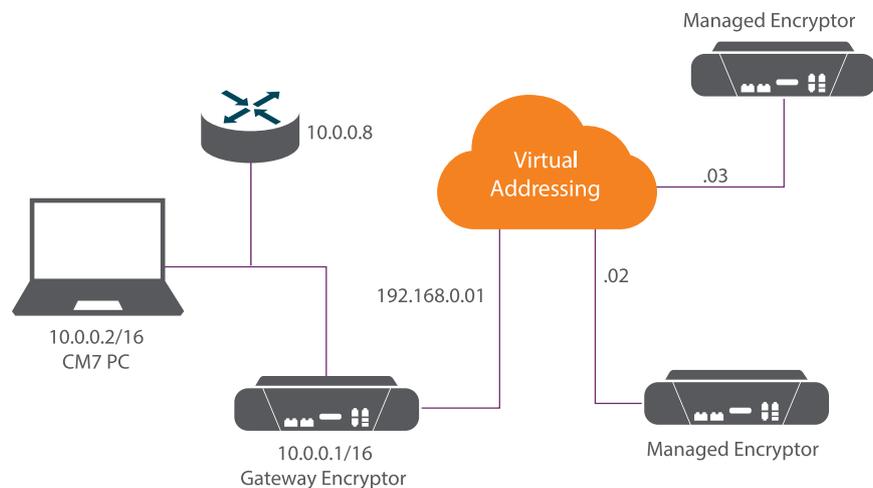
- > Ethernet encryptors
- > Fibre Channel encryptors

## SECURITY STANDARDS\*

- > FIPS 140-2
- > Common Criteria EAL4+



## IN-BAND MANAGEMENT WITH CM7



\*Senetas CM6 is certified FIPS 140-2, Common Criteria EAL4+ and CAPS (UK).

## SENETAS CORPORATION LIMITED

E [info@senetas.com](mailto:info@senetas.com)  
[www.senetas.com](http://www.senetas.com)



Senetas manufactures high-assurance Layer 2 Metro Area and Carrier Ethernet network encryptors. They support all Layer 2 protocols and topologies.

Our multi-certified encryptors are used by some of the world's most secure organisations, including governments and defence forces; commercial and industrial enterprises; Cloud, data centre and telecommunications service providers in more than 30 countries.

## GLOBAL SUPPORT AND DISTRIBUTION

Senetas CN series encryptors are supported and distributed globally by Gemalto under its SafeNet encryption brand.

Gemalto also provides pre-sales technical support to hundreds of accredited partners around the world; including systems integrators, networks providers, cloud and data centre service providers, telecommunications companies and network security specialists.

For more information click [here](#).

## TALK TO SENETAS OR OUR PARTNERS

Senetas and Gemalto also work with customers' existing data network service providers, systems integrators and information security specialists to specify the optimal high-assurance encryption solution for their needs.

Wherever you are, simply contact Gemalto or Senetas to discuss your needs. Or, if you prefer, your service provider may contact Gemalto or Senetas on your behalf.

## HIGH-ASSURANCE NETWORK ENCRYPTION

Whatever your Layer 2 Ethernet network security needs, Senetas has a high-assurance solution to suit. They support modest 10Mbps to high-speed 10Gbps links; multi-port 10x10Gbps links and ultra-high-speed 100Gbps links.

Scalable, agile and easy to use; Senetas high-assurance encryptors provide maximum security without compromising network performance.