SENETAS
Security without compromise

# CYPHERMANAGER 7.0

## 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

## 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.*

- Integrated Certificate Authority

- Purpose-built graphical management tool

## 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
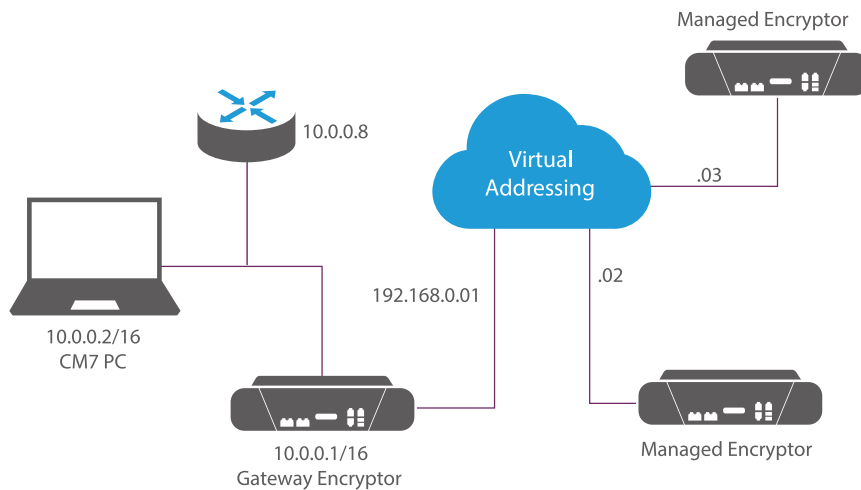
- Command line serial interface

## Supported Devices

- Ethernet encryptors

- Fibre Channel encryptors

## Security standards*

- FIPS 140–2

- Common Criteria EAL4+
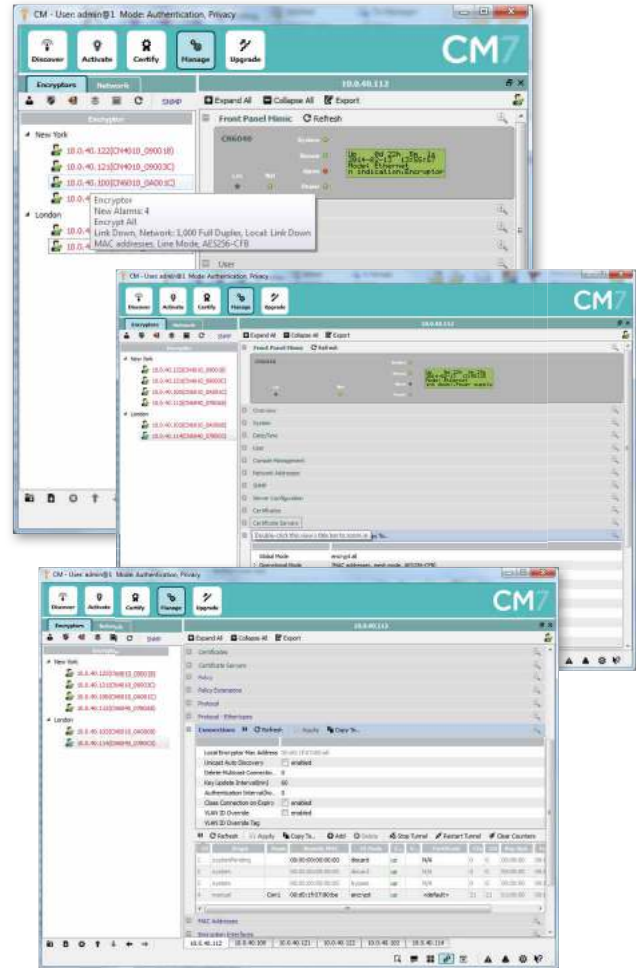
## In-band Management with CM7

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

## GLOBAL SUPPORT

Senetas encryption solutions are distributed and supported internationally (outside Australia and New Zealand) by Thales and within government & defence sectors by Thales Defense & Security Inc.

Thales is the world leader in digital security and defence, servicing over 30,000 customers across 180 countries. Senetas products are sold by Thales under its SafeNet brand.

**THALES**

## ANZ PARTNER COMMUNITY

Senetas works directly with customers and their service providers across Australia and New Zealand. We provide technical consultancy and support to data networks providers, systems integrators and cloud service providers. For a current list, visit our **ANZ Partner Community Page**.

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Senetas is a leading developer of end-to-end encryption security solutions; trusted to protect enterprise, government, defence, Cloud and service provider network data in over 40 countries.

From certified high-assurance hardware and virtualised encryption, to secure file sharing with data sovereignty control, all are based on the same crypto-agile platform and deliver security without compromise.

**Regional Contacts:**

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## GET IN TOUCH

Are you looking for a service provider to help you select and implement a network data encryption solution? Contact Senetas and we'll help you find the right one.

Senetas works with IT infrastructure service providers and systems integrators across the globe, to help specify the optimal encryption solution for their customers' needs.

Customers may contact Senetas directly to discuss their requirements; or ask their service provider to speak to us on their behalf.

## ENCRYPTION SECURITY WITHOUT COMPROMISE

Whatever your network security needs, Senetas has an encryption solution to suit. Our certified high-assurance encryptors protect data across networks operating at speeds from modest 10Mbps to ultra-fast 100Gbps and support all network topologies.

Our virtualised encryption solution, for virtual CPE and virtualised WAN, supports bandwidths of up to 15Gbps. It provides policy-based, end-to-end encryption across multi-Layer networks.

Senetas encryptors are recognised globally for delivering maximum data security and crypto-agility, without compromising network or application performance.

## SECURE FILE SHARING

SureDrop offers all the flexibility of a drop-box style solution, with the added benefit of best-in-class encryption security and 100% control over data sovereignty.

For customers seeking additional layers of content security, SureDrop is also available with the Votiro File Gateway extension.

## DISARM MALICIOUS CONTENT

Votiro File Gateway leverages patented Content Disarm & Reconstruction (CDR) technology to protect your files from the most advanced, persistent cyber-attacks. It sanitises incoming files, eliminating the risks associated with zero-day or undisclosed attacks, whilst preserving 100% file functionality.

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