CV1000

SENETAS

# Virtualised encryption for large-scale WAN environments

The CV1000 is a crypto-agile virtualised network function for protecting data across large-scale virtualised WAN environments. Deployed as a guest virtual machine on industry-standard x86 hosts and hypervisors or in public cloud environments including AWS and Microsoft Azure, it delivers flexible, policy-based encryption from the WAN core to the virtual edge.

## Product highlights



### Tested to 10Gbps full duplex

DPDK acceleration delivers 10Gbps full-duplex throughput (20Gbps total), dependent on host configuration.



### Network independent encryption

Concurrent, policy-based protection for Ethernet and Internet protocol networks across Layers 2, 3 and 4.



### Virtualised and cloud deployment

Runs on industry-standard x86 hypervisors, AWS and Microsoft Azure.



### Crypto-agile protection

Designed to support long-term data protection as cryptographic requirements evolve.



### Flexible interoperability

Works with Senetas CN Series hardware encryptors across mixed environments.



### Centralised key management

Integrates with Thales CipherTrust Manager for streamlined key management.

## Built for efficiency, flexibility and scale



### Efficiency

Accelerated virtual encryption without dedicated encryption hardware.



### Flexibility

Protects east-west data centre traffic, WAN links, cloud and virtual edge deployments.



### Scalability

Supports large-scale environments spanning hundreds of sites and distributed users.

# Typical use cases

- Large-scale WAN deployments
- Secure east-west data centre traffic
- Extended WAN core infrastructure
- On-premises to cloud connectivity
- Cloud-to-cloud connectivity (e.g. AWS to Azure)
- Branch and remote-worker connectivity
- Manufacturing, supplier, customer and R&D partner networks
- IoT device connectivity

# Key specifications

### PERFORMANCE

- Tested to 10Gbps full duplex (20Gbps aggregate) with DPDK acceleration
- Performance depends on host configuration
- Up to 1Gbps shown for typical branch connections

### DEPLOYMENT

- AWS (Available in AWS Marketplace)
- Other cloud providers via bare-metal instances running Linux/KVM
- Supports common virtualised platforms
- Suitable for virtualised WAN environments

### MINIMUM RECOMMENDED HOST

- x86 multi-core processor
- 2GB virtual disk storage
- 2GB RAM
- 4 vCPUs

### NETWORK AND POLICY

- Concurrent, policy-based encryption
- Ethernet and Internet protocol networks
- Layer 2, 3 and 4 protection
- Network independent encryption
- FIPS 140-3 Level 1 Certification

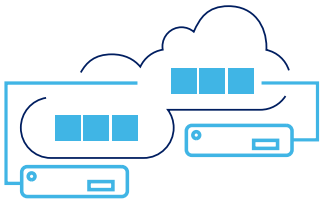
### INTEROPERABILITY AND MANAGEMENT

- Interoperable with Senetas CN Series hardware encryptors
- Integration with Thales CipherTrust Manager
- Designed for mixed virtual, cloud and hardware encryption environments

### SCALABLE APPLICATION

- WAN core to virtual edge protection
- Supports complex, distributed network environments
- Suitable for hundreds of sites and distributed users

## CV1000



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