

BIG DATA TRANSMISSION SECURITY HIGH-ASSURANCE ENCRYPTION

CASE STUDY

Application of High-Assurance Network Encryption	
Sector:	Financial Services
Use Case:	Big Data Transmission Security
Solution:	Cross-border data security and compliance for international banking transactions

Major international bank chooses Senetas high-assurance encryptors to secure cross-border transactions and reporting data.

CUSTOMER CHALLENGE

Our client is a major bank with significant Asian and international commercial banking operations.

As a part of its day to day operations, the bank collects, processes and reports on financial and transactions data; a process that demands accuracy, timeliness and confidentiality.

In order to meet the demands of a growing business, the bank opened a number of additional processing centres in the Philippines.

However, the Philippines central government's banking licence mandates the protection of critical or sensitive data being transmitted.

The high-speed data network links connecting regional and head office locations are essential to the bank's reporting processes and demand dependable and predictable data transmission.

This and other data network performance requirements were vital considerations for the selection and implementation of data network and encryption security.

PARTNERS IN SUCCESS

Our high-speed data networks integration partner, NEC, was responsible for upgrading the communications network links necessary to support the additional processing requirements of the bank's expanded branch network.

Not only does NEC's service bundle solution meet the client's complex financial traffic requirements, it also supports the full range of equipment used by the bank.

Both NEC and Senetas are experienced in deploying and maintaining solutions within a complex financial transaction and reporting environment.

Together, we are able to deliver high-speed data network architecture and encryption solutions without impacting on overall network performance.

SENETAS SOLUTION

Senetas CN Series Ethernet encryptors were selected to provide the mandated data protection and confidentiality across the new high-speed network links.

The CN Series Ethernet encryptor operates on both point-point copper and optical Ethernet connections, or across service provider Layer 2 network infrastructures.

Senetas CN Series encryptors offer high-assurance data network encryption and are certified by the world's leading, independent testing authorities:

- > Common Criteria EAL4+
- > FIPS140-2 level 3
- > UK CESG CAPS Baseline

The CN Series will secure up to 1Gbps Ethernet links at full line rate under all traffic conditions. The low latency architecture makes it ideal for delay sensitive applications such as voice or video transmissions.

In the initial deployment, the CN Series was successfully installed in a newly-installed data network in the Philippines; before being implemented across the wider network as planned.

Senetas trained key client staff who would be responsible for the day-to-day operations and management of the encryptors, including the Senetas CM7 encryptor management application software.

CM7 is an advanced, intuitive and easy to use application for remote and local diagnostic and encryptor operations.

CN Series encryptors were chosen by the client as they offered the best data protection, without impacting on network performance:

- > Encrypts all traffic seamlessly, including multicast and broadcast traffic using a zero configuration policy
- > Accredited devices within banking and financial service networks
- > Operates efficiently within the new communications solution environment without disruption to other devices on the network
- > Operates efficiently and effectively within the new communications solution environment without impact or disruption to other devices on the network
- > Secures communications at full line rate without impeding network operation
- > Provides flexibility including cost effective capacity upgrades.

BUSINESS BENEFITS

Senetas and NEC's joint expertise enabled the optimal secure high-speed data transmission solution - developed, tested and implemented specifically for the client.

Immediately after the solution was implemented, the client successfully and securely transferred sensitive financial data across a commercial data network.

Most importantly, the Senetas CN Series Layer 2 encryption solution provided the bank with a FIPS certified high-speed network data encryption solution. This enabled the bank to:

- > Protect transactions and reporting data during high-speed transmission
- > Fully comply with the government mandated data encryption requirements

Our client was able to meet its objectives of maximum data security and full regulatory compliance through Senetas high-assurance encryptors, without compromising data network performance.



SENETAS CORPORATION LIMITED

E info@senetas.com

www.senetas.com



Senetas designs, develops and deploys high-assurance network data encryption solutions. Designed for today's core Metro Area and Carrier Ethernet WAN infrastructures, Senetas solutions support all Layer 2 protocols and topologies.

Our multi-certified CN Series hardware encryptors have crypto-agility built in and 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 35 countries.

gemalto

www.gemalto.com

Senetas CN Series certified high-assurance network encryptors and CV Series virtual encryptors are distributed and supported internationally by Gemalto (North America, Europe, Asia, Middle East and Africa) as SafeNet Ethernet Encryptors.

INTERNATIONAL SUPPORT AND DISTRIBUTION

Senetas CN Series High-Assurance Encryptors and CV Series Virtual Encryptors are distributed and supported by Gemalto, the world's largest data security company, as SafeNet Ethernet Encryptors.

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

TALK TO SENETAS OR OUR PARTNERS

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

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

ENCRYPTION SECURITY WITHOUT COMPROMISE

Whatever your Layer 2 Ethernet network security needs, Senetas has an encryption solution to suit. They support data network links from modest 10Mbps and 100Mbps bandwidths to high speed 1Gbps, 10Gbps and even ultra-fast 100Gbps networks.

BIGDAT-CS1117