

FINANCIAL SERVICES HIGH-ASSURANCE ENCRYPTION

CASE STUDY

Application of High-Assurance Network Encryption	
Sector:	Financial Services
Use Case:	Cloud & Data Centre Services
Solution:	Secure banking transactions across encrypted Layer 2 networks

Sterci clients benefit from the cost reductions and risk management offered by cloud services, while maintaining a high level of assurance regarding data confidentiality.

CUSTOMER CHALLENGE

Interoute, owner operator of Europe's largest cloud services platform, provides hosting services to Sterci's Software-as-a-Service (SaaS) product, GTSuite Cloud Services, through Swiss Data Centres.

Sterci is the market-leading financial messaging solutions company and its GTSuite is a comprehensive portfolio of solutions for messaging, reconciliation, business work-flows, integration and data management for the financial and banking sectors.

Since 2006 Sterci has provided this as a service to financial companies choosing to outsource its messaging platform.

Sterci wanted to implement a secure data transmission platform for its customers' highly sensitive data.

It planned to implement an enhanced encrypted data transmission program that would match the demanding security needs of its financial sector customers. One that would also meet the SWIFT transactions' security obligations.

SENETAS SOLUTION

Sterci chose Senetas high-assurance, certified CN Series Ethernet encryptors. These were deployed by Interoute across a high-availability network between data centres in Geneva and Zurich.

According to Simon Kalfon, CEO of Sterci, the ability to ensure high levels of data security underpins Sterci's Software as a Service product.

"This has allowed us to achieve a higher level of compliance with SWIFTReady connectivity and its best practices; which is both an indication of our ongoing search for excellence and fits alongside our other key certifications FINMA, ISAE 3402, ISO 9001:2008."

Emad Ghanipour, Country Manager Switzerland for Interoute, confirmed that the ability to provide encrypted data transmission is a critically important element for the financial sector.

"Interoute provides secure colocation and hosting solutions across Europe for our international customers, offering cloud and managed hosting in our ISO 27001, PCI DSS and ISAE 3402 Data Centres.

Our partnership with ID Quantique and the Senetas data encryption solution allows us the flexibility to provide this bespoke solution to Sterci and enhance their security."

**Emad Ghanipour, Country Manager,
Interoute**

Asked why he specified the use of Senetas encryptors, Grégoire Ribordy, CEO of Swiss-based quantum cryptography company ID Quantique, had this to say:

“Working with customers to provide network data security solutions which do not compromise networks' performance is a key benefit of Senetas encryptors.

“Our customers benefit from Senetas encryptors' ease of implementation, zero impact on other network assets, operational simplicity and high-performance scalability.”

BUSINESS BENEFITS

Interoute and Senetas partnered to provide a certified, defence-grade network data security solution for Sterci's GTSuite Cloud Services.

The partnership among Sterci, Interoute and Senetas allowed Sterci to match the critical network transmitted data security requirements of Sterci's financial sector customers and meet SWIFT obligations.

Senetas' CN Series encryptors are based on the industry standard 256-bit AES encryption and are certified to the highest international, independent testing standards - Common Criteria EAL4+ & FIPS 140-2 level 3 accreditation.

Senetas encryptors are transparent to the network, ensuring 100% of the available bandwidth without packet expansion or loss and with latency fewer than 10 microseconds – all necessary for data centre interconnection.

Centralised network management tools, and features such as Link Loss Forwarding, ensure easy encryptor management and monitoring, as well as maximum network availability.

The simple installation and “set-and-forget” functionality minimises on-going maintenance costs, as well as the customer's total cost of ownership (TCO).

Senetas CM7 software provides an efficient and simple method of provisioning and managing the encryptors in real-time, either locally or remotely through a secured SNMPv3 interface.

Important security features, such as separation of duties and integrated monitoring tools, align the technology with business risk and audit requirements.

The secure remote management capability and fully automated group key management allow seamless scaling - from point-to-point to fully meshed multipoint networks.

The Senetas encryptors are agnostic to network equipment from different vendors, allowing them to work on third party networks without impact on other network hardware.



SENETAS CORPORATION LIMITED

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Senetas is a leading developer of encryption security solutions; trusted to protect enterprise, government, defence, Cloud and service provider data in over 35 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.



Senetas CN Series Hardware and CV Series Virtualised encryptors are distributed and supported internationally by Gemalto as Safenet HSE and vHSE products.

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INTERNATIONAL SUPPORT AND DISTRIBUTION

Senetas CN Series high-assurance encryptors for core high-speed network infrastructure, and CV Series virtual encryptors for extended virtualised WANs, are distributed and supported internationally (outside Australia and New Zealand) by Gemalto as SafeNet Encryptors.

Gemalto also provides pre-sales technical support to accredited partners and their customers around the world.

GET IN TOUCH

Looking for a service provider to encrypt your high-speed network data? Contact Senetas or Gemalto and we'll help you find the right partner.

Senetas and Gemalto also work with customers' own data network service providers to help specify the optimal encryption solution for their customers' needs.

Wherever you are, you may contact Senetas or Gemalto directly to discuss your needs. Alternatively, your service provider may contact us on your 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 provide support for all network topologies.

Our virtual encryptors support >1Gbps speeds and all topologies. Transport Layer independent encryption (Layers 2, 3 and 4) is also available; enabling end-to-end network data encryption security.

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

SECURE FILE SHARING WITH FULL DATA SOVEREIGNTY CONTROL

Based on the proven Senetas crypto-security platform, SureDrop is the most secure files sharing, collaboration and synchronisation tool available. SureDrop uniquely enables 100% file location control for data sovereignty protection. www.sure-drop.com

FINSER-CS0418