CLOUD & DATA CENTRE SERVICES
HIGH-ASSURANCE ENCRYPTION

CASE STUDY

Application of High-Assurance Network Encryption	
Sector:	Cloud Service Provider
Use Case:	Cloud & Data Centre Services
Solution:	Zero-impact, high-assurance encryption of Layer 2 networks

SENETAS

Security without compromise

Senetas high-assurance encryptors chosen to protect Sterci's GTSuite via Interoute, owners of Europe's largest Cloud Services platform.

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 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.

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

"This has also 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."

Ask 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

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.

CLDDAT-CS0618