

HIGH-PERFORMANCE ENCRYPTION FOR A GLOBAL SAAS PROVIDER

CASE STUDY

Application of High-Assurance Network Encryption	
Sector:	Cloud/SaaS provider
Use Case:	Encrypting 100Gbps data centre links
Solution:	A certified, high-performance solution providing high-assurance, encrypted data protection and network security.

“When it came to choosing a vendor, we wanted a partner with an established reputation in the global cyber-security industry. What we liked about Senetas were their product credentials and their laser-focus on network data encryption.”

CUSTOMER CHALLENGE

Our client is a global cloud/SaaS provider. Headquartered in the US, with annual revenues in excess of US\$30billion, it employs over 100,000 people worldwide.

As a provider of services to the US federal government and commercial organisations dealing with government agencies, our client required a high-assurance solution for point-to-point data centre link encryption; to secure federal data residing in 12 facilities across the US, Europe and Asia.

Our client was in the process of migrating its data centre links to 100Gbps bandwidth and also required a solution that would meet the demands of more complex, fully meshed network architectures.

Finally, the high-assurance solution required FIPS 140-2 certification.

SENETAS SOLUTION

CN9120 (x36) operating at 100Gbps with ultra-low (<2 microseconds) latency providing high-assurance, encrypted data protection and network security.

DEPLOYING HIGH-ASSURANCE ENCRYPTION

Senetas CN Series hardware was one of three solutions considered for this project, the others being MACSec for WAN and Ciena 100G.

The choice of technology came down to three key criteria: security, performance (e.g. latency), and ease of management.

However, our client was also persuaded by our long-term commitment to FIPS and CC certification.

Given the volume and nature of the data being transferred, true line speed performance was a prerequisite.

“Senetas delivered a really strong technical presentation, followed by a successful POC. Throughout the process, we maintained contact all the way to CTO level.”

High-speed, high-performance 100Gbps links were used for data centre interconnect and back-up/DRaaS, so it was also important that any encryption solution had minimal impact on network performance.

Because 100Gbps was relatively new network technology, our client sought a proven platform that featured the performance and security benefits of the Senetas FPGA-based, dedicated encryption technology.

Resilience was also a key consideration; met by Senetas' 99.999% uptime availability - including proven avoidance of unplanned network downtime through frequent security patching and software updates.

From an ease of management perspective, it was important that all encryptors could be centrally managed via CLI, with a preference for “set and forget” technology, which was also seen as a TCO benefit.

Certification plays a major role in validating the performance of our encryption solutions. Our long-term commitment to certification by the world's leading independent testing authorities provides additional peace of mind for customers that insist on proven security credentials that meet national or international government requirements.

The client's POC request showed how Senetas CN 9000 Series 100Gbps encryptors met the client's mix of requirements, with security being the highest criterion making it stand out. The Senetas CN9000 was seen as a "secure, purpose built solution dedicated to a single function".

“We were impressed with Senetas’ commitment to strategic product development. In particular, the roadmap for NIST and CC certification and the built-in agility.”

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; including:



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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 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.

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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 5Gbps. 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 Disarmer extension.

DISARM MALICIOUS CONTENT

Votiro Disarmer 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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