Case Study

Secure At-Sea Encryption Communications CN7000 Network Encryptor



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Agility Meets Verstility

Use Cases:

Thales CN Series encryptors have protected the world's most sensitive government, defense and commercial data for 25 years. Operational agility is synonymous with defense superiority at-sea.Similarly, secure communications platform and encryption agility are essential to defense operations success. Now Thales extends its network encryption platform to the communications and defense operations edge. The CN platform, network and crypto agility combine to provide versatile communications security at-sea - from under-sea to in the air.

Crypto Agile

The latest addition to the CN range of military-grade network encryption solutions, the CN7000 joins the CN9000, CN6000 and CN4000 series hardware encryptors.

The CN7000 takes the Thales trusted certified andquantumsafe network encryption platform that critical last mile to defense operations at-sea. Evolving threats to defense operations at-sea.Our systems' crypto agility adapts swiftly to new cryptographic challenges, safeguarding your communications against both current and future threats. CN7000 encryptors are Quantum resistant and enable crypto customization.

Network Agile

Secure connectivity across diverse networks is essential. That's why CN Series encryptors support all modern networks seamlessly. Whether your mission is land, air, or sea, the CN7000 ensures consistent, reliable and secure network performance. Protect any type of traffic over any type of network.

Platform Agile

Like defense missions, the CN Series network encryption platform is uniquely agile. Now the CN7000 provides the versatility of secure FIPS certified * encryption OS deployment on a range of prevalidated hardware. Tailor your solution to be as rugged, responsive, and resilient as your at-sea, in-the-air, or in-the-field operations demand.

Secure Versatility is Our Mantra

Thales is trusted to protect the world's most sensitive data. The CN7000's versatility now provides a defense strategic advantage in the field. We adapt our encryption platform to your mission – not the other way around.

SecureToday, Prepared Tomorrow

Thales now delivers the most versatile secure network communications - from certifiedencrypted infrastructure to tactical deployment.



Use Case - Military-Grade High Speed Encryption for Defense & Critical Infrastructure

Thales CN Series encryptors are used by governments to protect essential defense assets, at the network edge "in-the-field". From manned naval ships to state-of the-art unmanned autonomous vessels the CN7000 ruggedized encryptors are deployed to protect all communications at sea.

Defense customers choose Thales encryptors to protect core network links and sensitive data at speeds from 1 GBPS to 100 GBPS. Now military customers also are choosing Thales' latest hardware encryption solution, the CN7000 Series in-field encryptors to protect their autonomous assets 'tactical' communications – payload and operations.

CN Series hardware and software encryptors providemaximum data and network encryption security through certified "high-assurance" features. True "end-to-end" encryption, key management security and authentication features are FIPS, Common Criteria and NATO certified suitable for defense and government use. They protect both the data in motion and the network from cyber-attacks - from the server room to the network edge.

Because all Thales encryptors provide policy-based network independent encryption for all network types without compromising performance, they have also been the first choice of commercial organizations core network infrastructures.

'At-Sea' Autonomous Naval Vessel Communications Use Case

Our government and defense customer is long-standing. As it increasingly invests in autonomous naval assets two cyber-threat issues arose. Persistent cyber-attacks by a variety of bad actors demand video, voice and data communications be encrypted and authenticated without the network performance compromise of solutions such as IPSec – for vessel operations and payload communications. This requires highperf ormance encryption and support for all network types, to the network edge in the filed.

Because autonomous vessels possess data assets of very high value to bad actors, the navy must ensure they do not fall into third party hands. Similarly, their communications links must be protected against hack attacks – for secure payload and operations. Typically, risks are also physical with autonomous vessels targeted by third party interception also risking data theft.

Our customer conducted live PoC trials at sea using the latest Thales encryptors designed specifically for in-field military operations. The CN7000 encryptors provide: ruggedized water-resistant form factors; cost effectiveness for deployment in large numbers; support for all network protocols and topologies; support for sovereign algorithms; quantum threat resilience and supports network speeds up to 5 GBPS.

The customer chose the CN7000 because no other encryption solution could offer true high-performance – low latency and data overheads – and support for all networks in an agile formfactor of the customer's choice plus quantum resilience today for protection against future quantum threats.

About Thales

Today's businesses and governments depend on the cloud, data and software to deliver trusted digital services. That is why the most recognized brands and organizations around the world, rely on Thales to help them protect sensitive information and software wherever it is created, stored or accessed – from the cloud and data centers to devices and across networks. As the global leader in data security, identity & access management, and software licensing, our solutions enable organizations to move to the cloud securely, achieve compliance with confidence, create more value from their software and deliver seamless digital experiences for millions of consumers every day.

