ATOMNIA®
Connected Cyber Resilience

DATA ASSURANCE

Defence-grade Data Encryption For Critical Cyber Resilience

Thales HSE data encryption delivers powerful protection through multi-layer encryption that makes your sensitive data unreadable to cybercriminals, whether moving across networks, between sites and clouds, across the supply chain or at rest in your DC.



Layer 2, 3 & 4 encryption | **Up to 1 Gbps throughput** | **Near-zero latency** | **Customer-controlled keys**

01 | THE CHALLENGE

Data is valuable. Exposure is costly.

- Sensitive data moves across networks, clouds & remote locations
- Ransomware exfiltration puts data, IP and trust at risk
- Point encryption tools can leave gaps in hybrid environments
- Security controls must not compromise performance

Intercepted data must be useless.

02 | THE SOLUTION

DATA ASSURANCE: Thales High-Speed Encryption everywhere data travels.

A multi-layer data protection solution, running on your VENA device, that encrypts traffic across layers 2, 3 & 4.



Defence-grade encryption | Transport independent | Centralised control

03 | WHAT IT PROTECTS

Critical data. Every path. Every environment.

Data on the move	Cloud workloads	Data centres	Office-to-office traffic
Backup & DR	Remote users	IP & customer records	SCADA & operational data

04 | BUSINESS IMPACT

Make data useless to attackers.

Stop data theft
Captured data remains unreadable

Strengthen resilience
Protected data is harder to monetise or leak

Maintain performance
Full line rate encryption with near-zero latency

Built for compliance
Stronger technical controls for critical information flows

05 | HOW IT WORKS

Classify. Encrypt. Control.



Classify	Encrypt	Transmit	Verify	Manage
Data controls	Multi-layer protection	Secure traffic	Zero-Trust validation	Centralised policy

06 | KEY FEATURES

Defence-grade data protection.

- Multi-layer encryption at Layers 2, 3 & 4
- Runs on your VENA hardware device – no need for additional equipment
- Full-duplex, full line-rate performance
- Near-zero latency with minimal performance impact
- Encryption available per department within your organisation
- Exclusive customer control of encryption keys
- Central management across distributed networks
- Crypto-agility with QKD and QRNG integration
- Customer-specific encryption algorithm is available

07 | WHY ATOMNIA:

Trusted & proven data protection.



- The only company globally with 2 x double-accredited SD-WAN Subject Matter Experts
- ATOMNIA-developed pure-play packet-based SD-WAN
- EU SEAL-3 sovereign technology with global design, integration, deployment, management & 24/7/365 support
- Flexible solution & terms, eliminates lock-ins
- Multi-award-winners for Defence projects START2Def 2026 & CAP4Land 2026

08 | LET'S CONNECT

Are You Ready to make your data useless to attackers?

Protect critical information with high-speed, Layer 4 encryption that enables data assurance, operational resilience and sovereign control.

Talk to our team about OMNIA – we're here to help

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