

7 Key WAN security Considerations

Sensitive data is big business for cyber criminals; yet it's puzzling that <30% of organizations deploy encryption to secure it, exposing them to considerable risk¹.

Here are 7 things you should take into consideration when choosing a WAN encryption security solution.

¹ 2019 Thales Data Threat Report



All network traffic between sites should be encrypted



Data in motion should be encrypted across all primary network types



Encryption solutions should support all topologies



Encryption should take place in a secure device, within a secure environment

2: Keep things random

It's crucial that your keys aren't **vulnerable** to prediction or bias. If a pattern can be established, you can be hacked.

Make sure you use a Random Number Generator with a high source of entropy, such as True Random Number Generation (TRNG) or Quantum Random Number Generation (QRNG).



Key management must be versatile and optimized for the task.

3: Secure your keys



Encryption keys must be secure during their entire lifecycle.

4: Stay agile

Make sure you have a choice of **cryptographic primitives**.

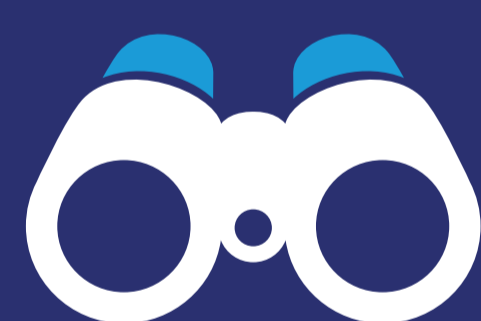
Your solution should also be **crypto-agile**.



Your solution should be able to scale up and down with your changing requirements.



5: Think present and future



It should also be future-proof; protecting you against emerging threats.

6: Stay certified

Look for a vendor with a commitment to independent security evaluations and audits.



7. Beware of operational impact



Look at the **latency** and data **overhead** impacts on network performance.

Think about the impact that unscheduled network downtime could have. Beware of multi-tasking network routing and encryption devices requiring frequent security patches and software updates, causing unplanned downtime and business disruption

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