

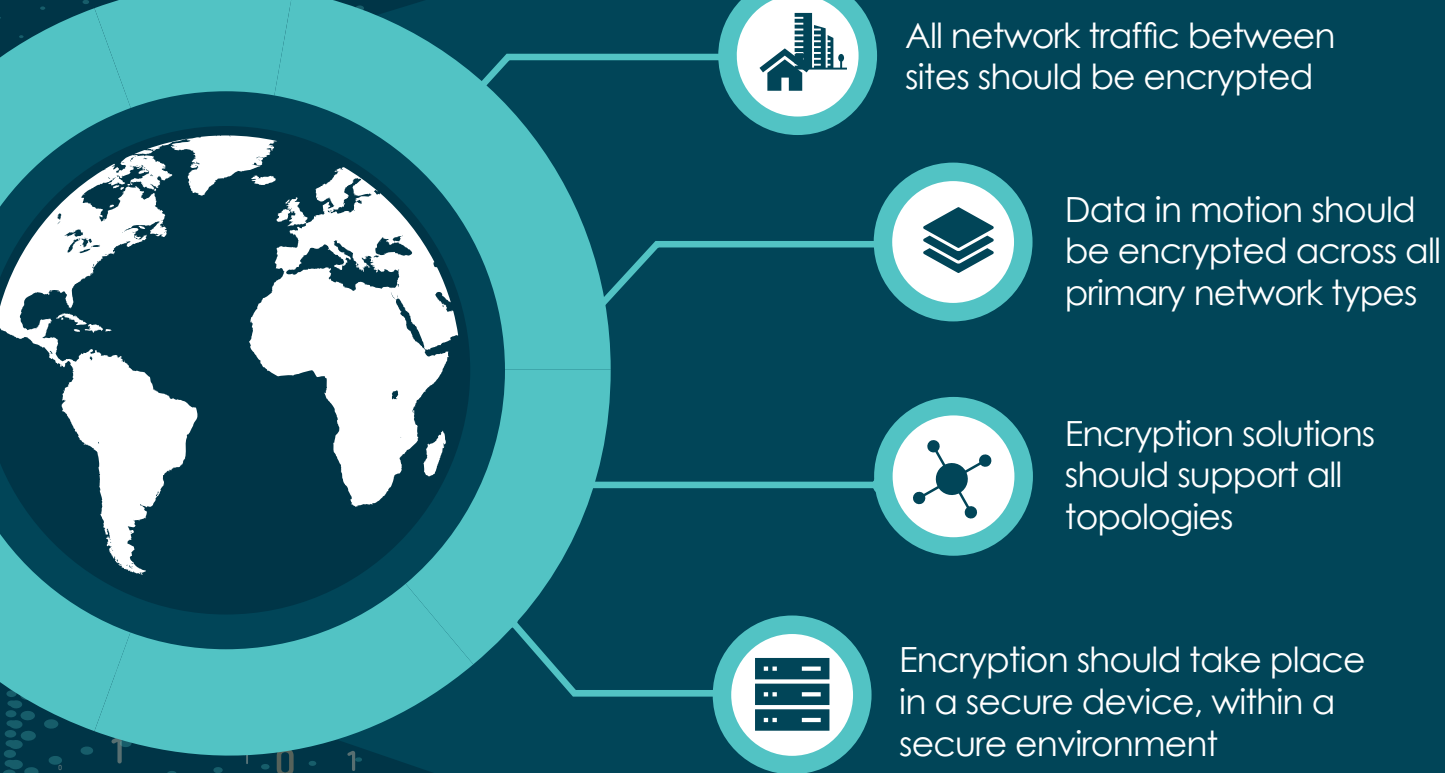
7 KEY WAN SECURITY CONSIDERATIONS

Sensitive data is big business for cyber criminals; yet it's puzzling that **<30%** of organisations deploy encryption to secure it¹, exposing them to considerable risk.

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

¹2019 Thales Data Threat Report

1: ENCRYPT EVERYTHING



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).

3: SECURE YOUR KEYS



Encryption keys must be secure during their entire lifecycle.

Key management must be versatile and optimised for the task.

4: STAY AGILE

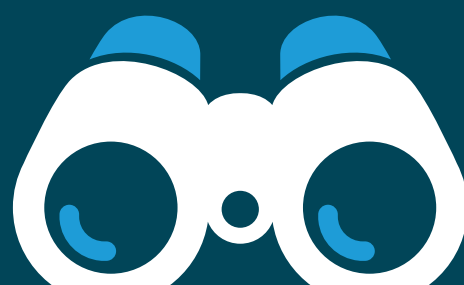
Make sure you have a choice of **cryptographic primitives**.

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



5: THINK PRESENT, AND FUTURE

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



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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Senetas is a leading developer of encryption security solutions; trusted to protect enterprise, government, defence, cloud and service provider data in over 40 countries. From certified high-assurance hardware, and virtualised encryption, to secure file sharing and collaboration with data sovereignty control, all are based on the same crypto-agile platform and deliver security without compromise.

Senetas encryption solutions are distributed and supported internationally (outside Australia and New Zealand) by Thales.

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