Securing a Tier 1 carrier's global network with Sitehop SAFE series.

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The Challenge

A need for scalable, multi-tenant security without compromising latency

A Tier 1 carrier needed to enhance its ability to deliver high-throughput, secure connections to the cloud for business customers. Their enterprise clients demanded fast, low-latency connectivity while ensuring data security. However, traditional security solutions–including firewalls and software-defined security models–introduced significant network slowdowns, forcing a difficult choice between speed and security.

For the carrier, delivering scalable, multi-tenant security across their global infrastructure without compromising performance was a critical challenge. They needed a solution that would provide:

- **Ultra-low latency** to meet the demands of real-time applications.
- **High throughput** to ensure business customers could transmit large volumes of data without slowdowns.
- **Scalability** for seamless integration across a rapidly expanding network.
- **A solution** that didn't force a trade-off between security and performance.

The Solution

Sitehop SAFE Series – Security at the Speed of Business

Sitehop's SAFE Series encryption technology was chosen to solve these challenges. Unlike traditional firewall or software-defined security solutions, which introduce latency and impact network performance, SAFE Series delivers hardware-first encryption that:

- **Ensures** line-rate encryption at ultra-high speeds.
- **Eliminates** the need to compromise between security and network performance.
- **Supports** multi-tenant environments, allowing the carrier to scale its secure services seamlessly.
- **Provides** transparent encryption that does not disrupt existing network operations or architectures.

The Outcome

Fast, Secure, and Scalable Connectivity

By deploying the Sitehop SAFE Series, the Tier 1 carrier was able to:

- **Maintain** high-speed, secure connectivity for business customers without slowing their networks down.
- **Eliminate** the security vs. speed trade-off, ensuring enterprise customers no longer had to choose between latency and protection.
- **Expand** their secure cloud connectivity services, creating new revenue streams with differentiated, high-performance offerings.
- **Future-proof** their network with a scalable, hardware-driven encryption solution ready for emerging security demands, including post-quantum cryptography.

Conclusion

As the demand for high-speed, secure cloud connectivity grows, Tier 1 carriers must find solutions that balance performance and security. The Sitehop SAFE Series proved that carriers no longer need to choose between encryption and speed–both can be achieved simultaneously, ensuring secure, high-throughput network services for business customers worldwide.

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