Dispersive Stealth Networking

Solutions for Secure and Reliable Network Connectivity in Remote Areas

CASE STUDY

Key Takeaways

The case study highlights the importance of a robust and flexible connectivity solution in remote areas with limited connectivity options. Dispersive Solutions provided 21Packets with a reliable and secure platform to support its customers' OT devices, ensuring:

- **Discrete Data Transmission:** End-to-end obfuscation protected data from detection or blocking.
- **Scalability:** High-bandwidth links (up to 10G) supported the growing demands of large OT devices.
- **Flexibility:** Expedient deployment and spin-down capabilities ensured minimal downtime for critical operations.

Executive Summary

21Packets, a network service provider catering to industries such as Oil & Gas with large OT devices, required a reliable and secure connectivity solution that could handle the unique demands of remote locations.

With limited connectivity options due to conflict zones or harsh geography, 21Packets needed a robust and flexible solution that could adapt to various regional requirements.

Challenges

As a global network service provider operating over 400 POPs worldwide, 21Packets faced significant challenges in providing secure and reliable connectivity for its customers' OT devices.

The company's primary objectives were:

- Obfuscate data traffic from the rest of the network
- Optimize traffic across multiple links using multipathing
- Operate on multiple network layers
- Provide high-bandwidth links (up to 10G)
- Offer expedient deployment and spin-down capabilities

Unique Value Proposition

Dispersive Solutions, an innovative technology provider, offered an end-to-end obfuscation solution that addressed these challenges.

The Dispersive unique value proposition included:

- **End-to-End Obfuscation:** Hiding data traffic from the rest of the network
- **Managed Attribution:** Providing visibility into the origin and destination of the data
- **Multipathing:** Optimizing traffic across multiple links for maximum efficiency

Implementation Use Cases

Dispersive Solutions was deployed by 21Packets in various scenarios:

1. **Layer 2 Transport Network** Deployment: Dispersive Solution was integrated at layer 2 transport network to provide internet backhaul connectivity.
2. **Regional Adaptation** The solution adapted to regional network providers and nation-specific requirements, ensuring effective obfuscation of underlying data traffic.

Conclusion

The implementation of Dispersive Solutions by 21Packets demonstrates the effectiveness of innovative technology in addressing the unique challenges faced by network service providers operating in remote areas with limited connectivity options.

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