

**Customer Name:**

OFFSITE

Industry:

Cloud Computing And Data Center

Location:

Kenosha, WI, USA

Business Challenges:

- Minimize Network Latency & Packet Loss
- Bypass Network Congestion & Outages
- Mitigate blackouts/brownouts
- Maximize resiliency and reliability of network operations
- Achieve deeper insight into WAN functionality

CUSTOMER OVERVIEW

Operating since 2001, OFFSITE offers private cloud services, IaaS, custom, dedicated and shared colocation services, disaster recovery services, network operations center (NOC) services, and hosted and managed solutions. OFFSITE's spacious facilities and customized services enable mid-market businesses to solve their IT challenges and discover new managed services, hosting and private cloud computing solutions. OFFSITE operates a high performing environment for managing data operations that include safe and secure facilities, a powerful infrastructure, industry leading technology, strategic processes, comprehensive services and data solutions expertise.

CHALLENGE

WAN services performance and reliability are extremely important aspects of OFFSITE's hosted and collocated data center products. OFFSITE delivers connectivity through point-to-point (P2P) connections from tier-one providers as well as through the OFFSITE internet stack. The OFFSITE internet stack is engineered in a Border Gateway Protocol (BGP) mesh of four tier-one bandwidth providers. BGP alone is functional but slow to re-converge and unaware of latency concerns. Therefore, the company was looking for a solution that could maximize its WAN performance by automatically mitigating outages and blackouts.

SOLUTION

Noction IRP brings intelligence and optimization to OFFSITE's BGP mesh to significantly increase performance. It allows OFFSITE to exploit the reliability inherent in multi-homing, while achieving predictable network performance. The IRP platform proactively monitors the network and automatically reroutes traffic around congestion and outages by selecting the best performing path based on critical network performance metrics such as latency and packet loss. Beyond route performance optimization, IRP allows OFFSITE to account for unique policies and requirements at the data center through the platform's Routing Policies feature. Moreover, IRP's Troubleshooting Tools are used by the company's engineers when helping customers diagnose mid-stream transit issues. OFFSITE uses Noction data analytics for circuit and aggregate capacity planning, customer monetization and retention, and carrier SLA validation.

RESULTS

By running for more than 4 months in the OFFSITE network, IRP optimized over **25 TB** of traffic by announcing almost 230,000 route improvements. The platform reduced latency by an average of **24%** and dropped packet loss by an average of **86%** for the analyzed prefixes.

“Beyond the significant advances that the Noction technology provides in automated improvement of the wide area network (WAN) connectivity, the most important benefit Noction provides is the added level of insight into the functionality of our WAN,” stated Anthony Portee, OFFSITE chief technology officer. “Since implementing the Noction solution, our customers have benefited from increased traffic performance by minimizing latency and packet loss. We are proud to partner with such an innovative provider like Noction, enables OFFSITE to deliver dedicated and reliable internet connectivity with no oversubscription, no route discrimination and zero single points of failure.”



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Anthony Portee
Chief Technical Officer

Performance Results



Latency Reduction

201 ms

153 ms

24%
Average
Latency
Reduction



Packet Loss Reduction

44%

6%

86%
Average
Packet Loss
Reduction

- - Initial Values
- - Post-Optimization



Contact us for more information:

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