



AboveNet™

THE AGILITY GUARANTEE

AboveNet Low Latency Network Solutions

Taking Latency Performance To New Lows

About AboveNet

AboveNet, Inc. provides high bandwidth connectivity solutions for business and carriers. Its private optical network delivers key network and IP services in and among top U.S. metro markets and globally.

AboveNet's network is widely used in demanding markets such as financial services, media, health care, retail and government.

Greater than 2.3 million fibre miles

Private, purpose-built networking providing end-to-end connectivity in and among top US markets and globally

AboveNet

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The Difference is Choice:

Benefits of an AboveNet High Performance Private Network

Backed by rigorous *Agility* Guarantee Service Level Agreements customised for the latency performance you need.

Your business transactions can be completed or lost in the time it takes a data packet to move across a network connection, while the sending computer waits for confirmation that the data has been received. High latency, or delay, and bandwidth are the key factors determining your true network connection speed.

With content transferring at gigabits per second, even a few extra milliseconds delay can mean poor response from applications, or loss of revenue. Financial services use ultra-fast computers running algorithmic trading models to analyse trading patterns. They do this while conducting millions if not billions of transactions daily, with most of them reaching and returning from end-points in less than 10 milliseconds. Trade orders must be first to reach market destinations to be filled, or the business goes to someone else.

The Speed Of Light...Almost

Even with data signals moving near the speed of light networks, must negotiate an obstacle course of network electronics and hardware that will slow the packet signal and delay your data. As your critical orders are crossing network interfaces and being converted from optical to electrical and back, the delay or latency increases.

Limitations:

- Poorly engineered hardware and protocols
- The distance the signal must travel
- Any multi-network connectivity can affect latency performance.
- End-to-end data delivery must slow for these conversions and interfaces.
- Legacy networks provide connectivity over mixed media of copper and fiber-based networks connected to multiple devices and interfaces.

When your critical communications have to negotiate lengthy, multiple network connection points, your voice and video transmissions can be degraded. This can produce order errors, re-transmissions and voice drop-outs, all of which diminish an organisations productivity. A handful of errors or delays in orders or transactions could affect your financial results for a quarter, or potentially for the year.



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The time performance – latency – of your network can make the difference between success and a missed revenue opportunity as shown in these applications:

- eCommerce- every 100ms of latency can reduce sales by 1%
- Search Engines – an extra 0.5 seconds in search page generation time dropped traffic by 20%
- Financial – “if a broker’s electronic trading platform is 5 ms behind the competition it could lose them at least 1% of their flow- that’s \$4 million in revenues per ms” (TABB Group)
- Energy/Oil futures trading - requires milliseconds responses as negotiations reach around the world for deals

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High performance networking designed for your needs are now made stronger.

We can’t change the laws of physics, but we can provide a latency guarantee for a network design that will help assure your communications are virtually instantaneous.

- End-to-end optical networking eliminates conversion delays, enabling lowest latency
- Network ownership provides dedicated network capacity and high availability
- Real-world latency measurements use round trip calculations
- Private, dedicated connectivity eliminates potential points of failure
- Protocol enhanced network design provides extremely low data latency

Backed by rigorous *Agility* Guarantee Service Level Agreements customised for the latency performance you need.

Delivering lowest latency throughput: Dedicated, point-to-point fibre network solutions

- Design a private, end-to-end, fibre network that bypasses potential failure points of legacy networks.
- Field-proven with high bandwidth solutions provided for some of the world’s most demanding customers, those with latency-sensitive applications, like market trading institutions, energy services and telemedicine providers.
- Hardware chosen to enhance network design capability to provide lowest latency.

We offer an array of network services with industry leading low latency, and now made better with the Agility Guarantee SLA. We are in the top US markets where you do business, offering you guaranteed low latency, high bandwidth connectivity.

Performance Provides a Competitive Edge

Whether you require low latency connectivity in the world’s trading markets or have critical data that must be precisely exchanged, AboveNet’s Agility Guarantee solutions can help give your business a competitive edge