



Unify Connectivity With
One Pipe Multi-Connect[®]



Carrier Evolved

SUMMARY



Delivering global connectivity for your business is a complex task. A task made harder by today's incumbent carriers. Managing multiple carriers and ISPs to deliver connectivity between workers, sites, data centers, and the internet is costly and time-consuming when

things are working well. When connectivity failures happen, they slow resolution with no proactive monitoring, and hard-to-reach technical support.

In the past, this was a necessary evil. If you wanted segregated data streams for internet, private intra-office, cloud, SaaS, and data center connections. Especially if you had multiple locations scattered across the country or the world. Fortunately, there have been many advancements in connectivity, and revolutionary solutions like the One Pipe Multi-Connect have emerged to deliver reliability, security, and simplicity to our networks.

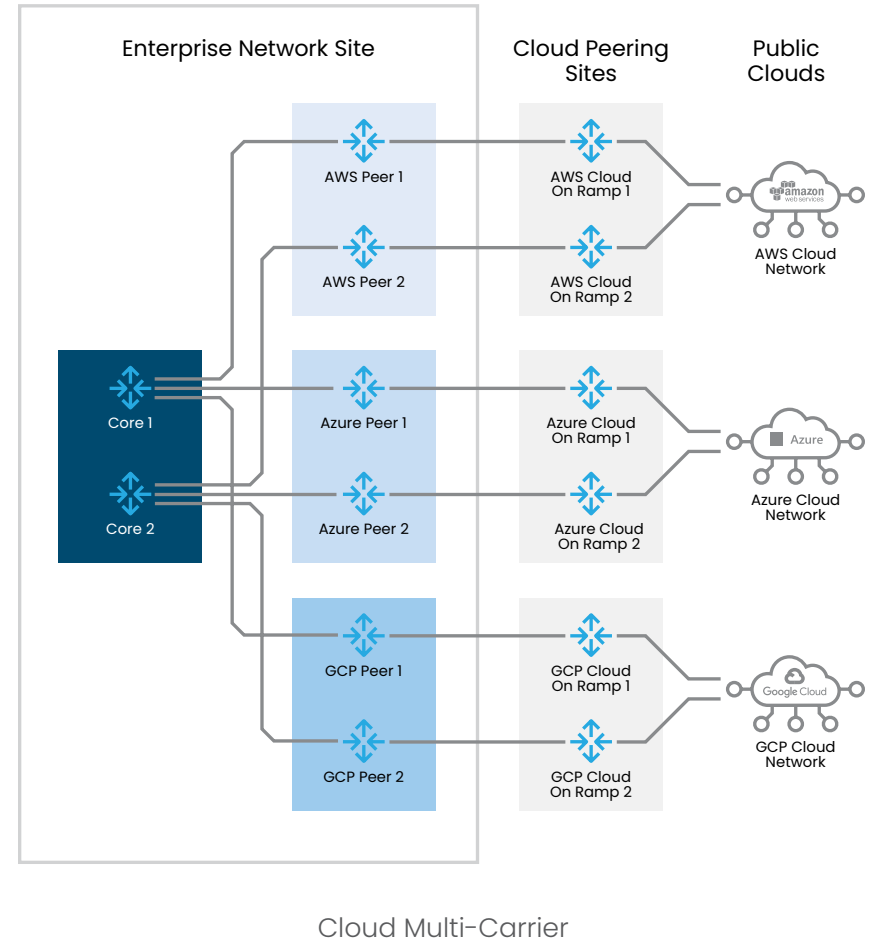


TABLE OF CONTENTS

The image features a dark blue, futuristic cityscape at night. The skyline is composed of numerous skyscrapers, some of which are illuminated with lights. Overlaid on this scene is a complex digital network of glowing blue and purple lines and dots, resembling a data network or a digital infrastructure. The lines are vertical and horizontal, creating a grid-like pattern that extends across the entire image. The overall aesthetic is high-tech and modern.



WHO WE ARE

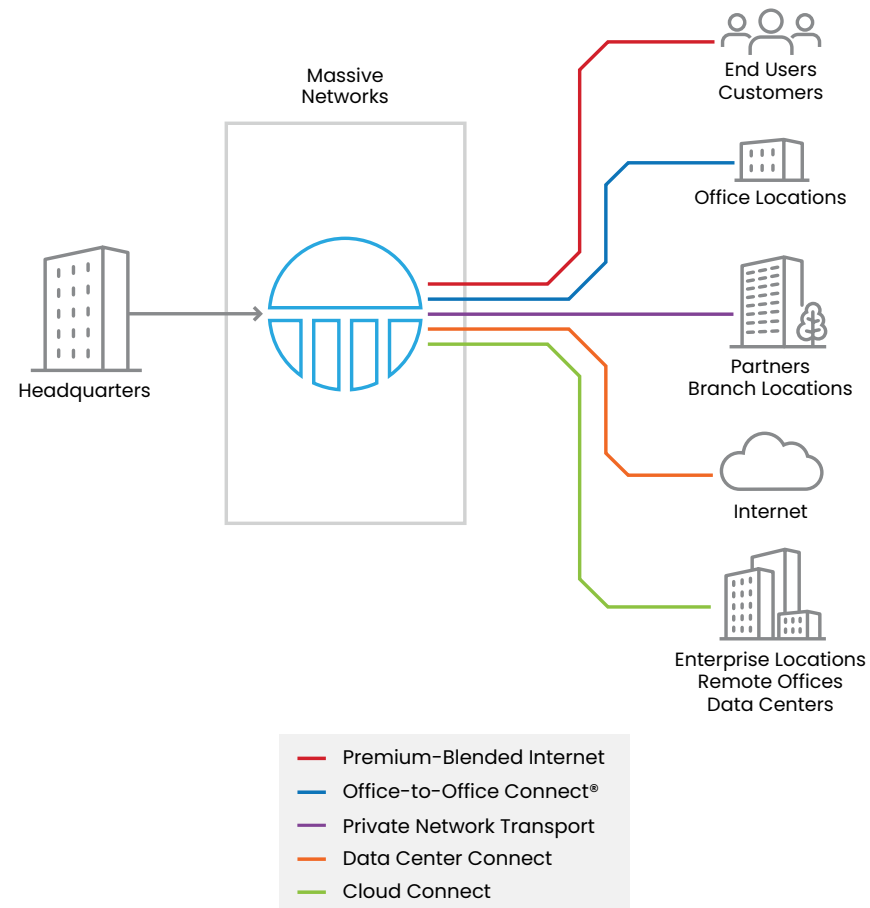


About Us

Massive Networks ethos is simple yet revolutionary: to engineer secure, reliable, and effortless global connectivity solutions that are tailored to the unique needs of each business. From our headquarters in Louisville, Colorado, we have grown into a connectivity powerhouse, driven by decades of industry expertise.

Our mission is to disrupt traditional multi-carrier connectivity with a single, unified carrier solution that spans the globe. We are not just another carrier; we are networking partners for everything from the design of secure segmented networks to continually improved performance backed by the unmatched support of our US-based NOC team and their decades of experience.

The One Pipe Multi-Connect solution offers global WAN services to our extensive network of 60+ million-lit buildings, 450+ clouds, and 6,000+ data centers. This comprehensive solution simplifies the challenge of managing multiple carriers by providing our Customers with one carrier, one MSA, and one invoice on One Pipe.





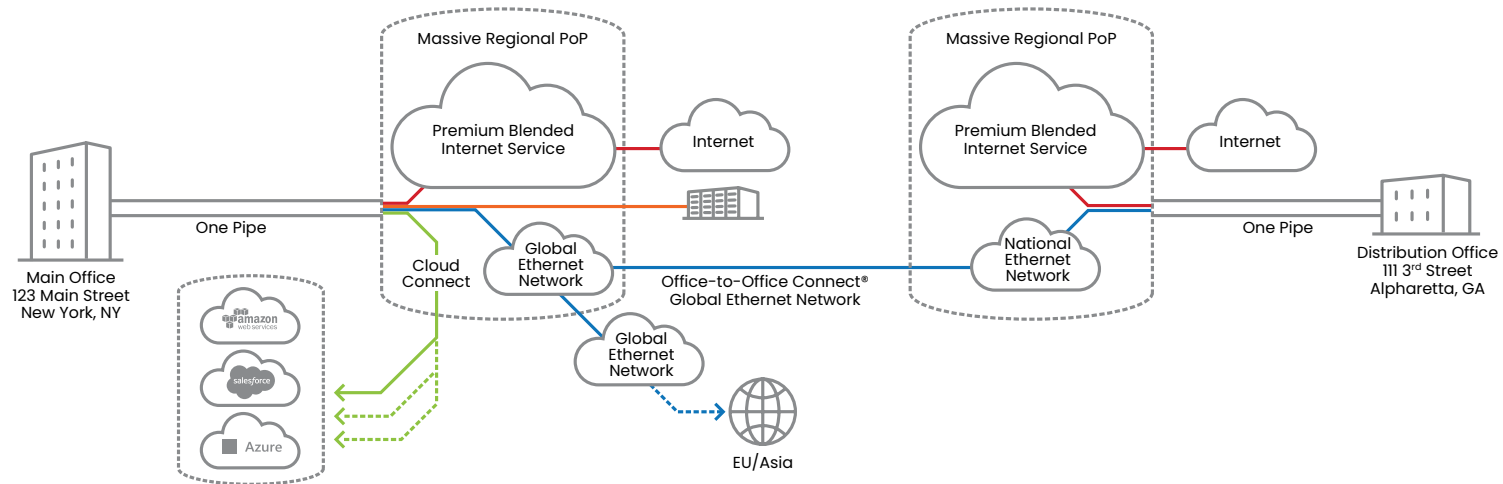
OUR SOLUTIONS

One Pipe Multi-Connect

At Massive Networks, our focus is singular yet all-encompassing. Our flagship solution, One Pipe Multi-Connect embodies our commitment to secure, reliable, and powerful connectivity. Our Multi-Connect Suite includes diverse components like Office to Office Connect, Cloud Connect, Data Center Connect, Premium Blended Internet, and SaaS Connect. Each element offers a custom-configured solution for every Customer, leveraging a blended approach of Layer 2 and Layer 3 network technologies. This innovative design enables the delivery of multiple and dynamic data streams through a single connection. The result is a network that offers superior performance and value.

Partnering with Massive Networks

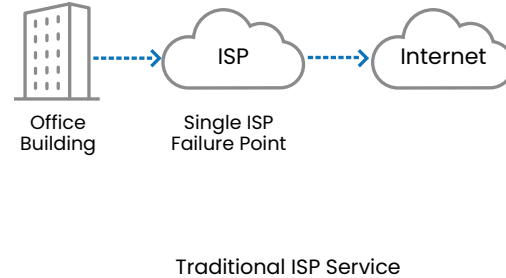
We believe that our success is directly connected to the success of our Partners and Customers. As a global carrier, we are committed to delivering reliable, fast, and secure connectivity that empowers businesses to thrive. We ensure the security of your network connections, data, and privacy in every product and service we deliver to every Customer and Partner.



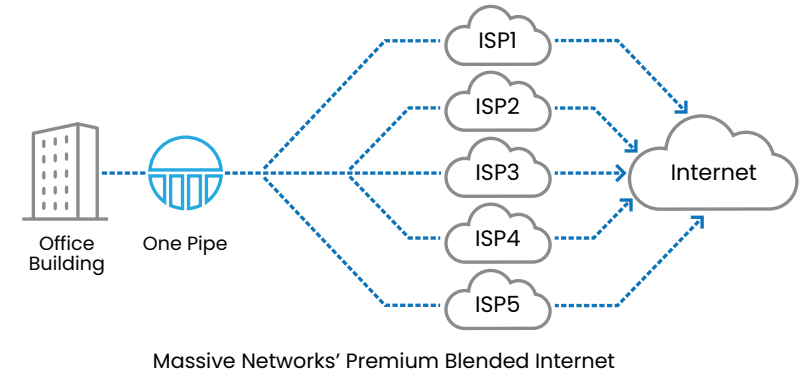
Our Multi-Connect Suite

Our One Pipe Multi-Connect solution combines services like:

- **Premium-Blended Internet**
- **Office to Office Connect**
- **Data Center Connect**
- **Cloud Connect**
- **SaaS Connect**



VS



Premium Blended Internet

At any moment, there are 100-200 global network outages that affect internet-accessible services. Businesses reliant on traditional single-provider internet solutions are frequently marred by inconsistent performance and unexpected downtime, disrupting critical business functions, and impacting productivity.

Premium Blended Internet from Massive Networks is an innovative solution designed to enhance internet connectivity for enterprises by combining the strengths of up to five Tier 1 Internet Service Providers (ISPs). This approach ensures a higher level of redundancy and resilience in internet connections, making it a reliable choice for businesses that require consistent and uninterrupted online access. By blending multiple ISPs, Premium Blended Internet mitigates the risks associated with relying on a single ISP.

Massive Networks' blended tier 1 ISPs approach creates a highly redundant onramp for businesses to access public internet services without having to build in manual redundancies. Such an arrangement ensures that if one ISP faces downtime or connectivity issues, the other ISPs can seamlessly take over, maintaining continuous internet access.

Here's how Blended Internet transforms corporate internet access:

- **Increased Reliability:** With up to 5 Tier 1 ISPs blended together using BGP, even multiple ISP outages do not result in downtime.
- **Increased Performance:** Multiple ISPs provide multiple network paths to Internet-based services, giving your users faster response times to the services they use most.
- **Enhanced Security:** The diversity of network paths makes it more difficult for bad actors to disrupt or intercept data.
- **Increased Flexibility:** Traffic can be rerouted through specific networks, avoiding less reliable networks or security threats.
- **Simplified Last Mile Connectivity:** One carrier to support last mile connectivity in 60+ million fiber-lit buildings across 58+ countries worldwide.
- **Simplified Operations:** Massive Networks becomes your single point of contact, offering end-to-end operational simplicity, from provisioning to billing and carrier management.
- **Complete Support:** Fully U.S.-based and managed 24/7/365 NOC.



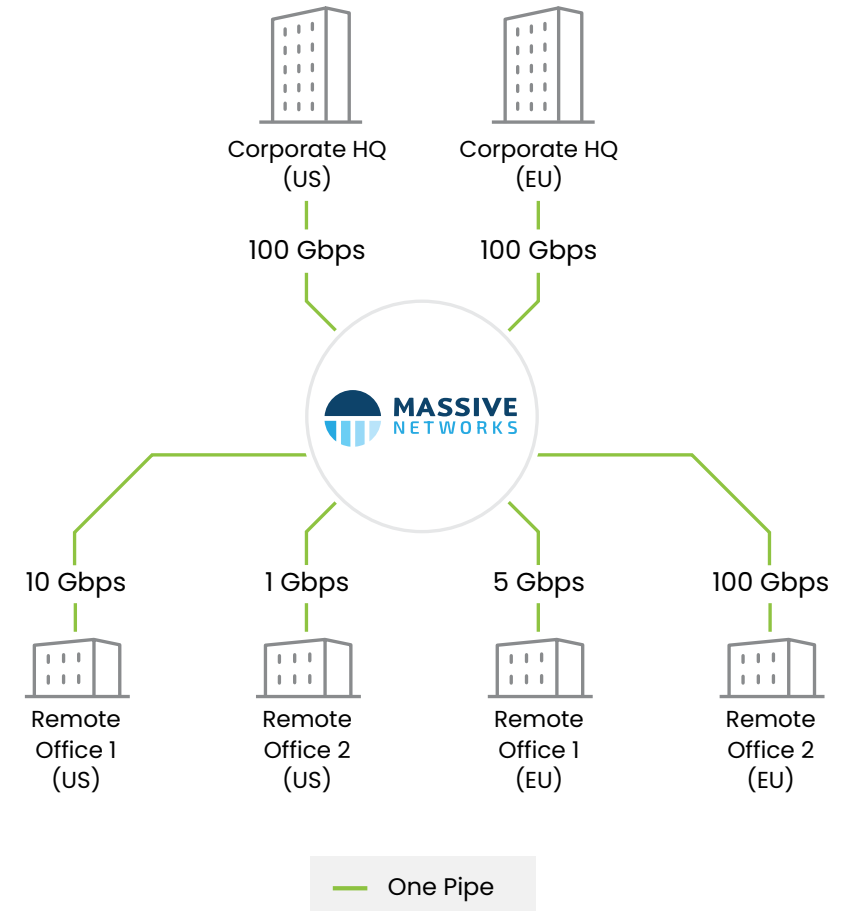
By having multiple ISPs at their disposal, businesses can enjoy higher bandwidths, faster routing, and better overall internet speeds. With these built-in advantages it is no wonder that Premium Blended Internet provides greater performance than any single internet service ever could.

Office to Office Connect

Our Office to Office Connect is revolutionizing Enterprise connectivity in a world that is rapidly decentralizing. The shift towards distributed and flexible office models necessitates an agile and reliable connectivity solution. Office to Office Connect is designed to provide a high-performance, secure, and scalable networking infrastructure across multiple office locations, facilitating seamless communication and resource sharing.

Our Office to Office Connect Delivers:

- **Last Mile Connectivity:** Unified carrier solution for over 60 million fiber-lit locations in 58+ countries.
- **Network Flexibility:** Options to interconnect offices on a shared network or establish dedicated networks for individual locations.
- **High-Speed Connectivity:** Network speeds ranging from 10Mbps to 400 Gbps.
- **Secure Connections:** Utilizes private circuits, eliminating the dependence on VPNs over the public internet and enhancing data security.
- **24/7/365 Support:** Fully managed support by a U.S.-based Network Operations Center (NOC).



The Massive Office to Office Connect Advantage

Globally Reliable Infrastructure

Office to Office Connect® provides businesses with a reliable and private network connection across multiple office environments, utilizing an extensive global network of over 60 million fiber-lit locations to ensure consistent, high-quality connectivity for all office locations, including remote and satellite offices.



Superior Network Security

Office to Office Connect integrates advanced security protocols to safeguard data transmission across the network. It adheres to international data privacy standards, ensuring that your business information is protected against unauthorized access and cyber threats.

Scalable Network Solutions

Designed for scalability, Office to Office Connect enables easy bandwidth upgrades and seamless integration of new office locations into the network, minimizing the need for recurrent network reconfiguration.

Data Center Connect

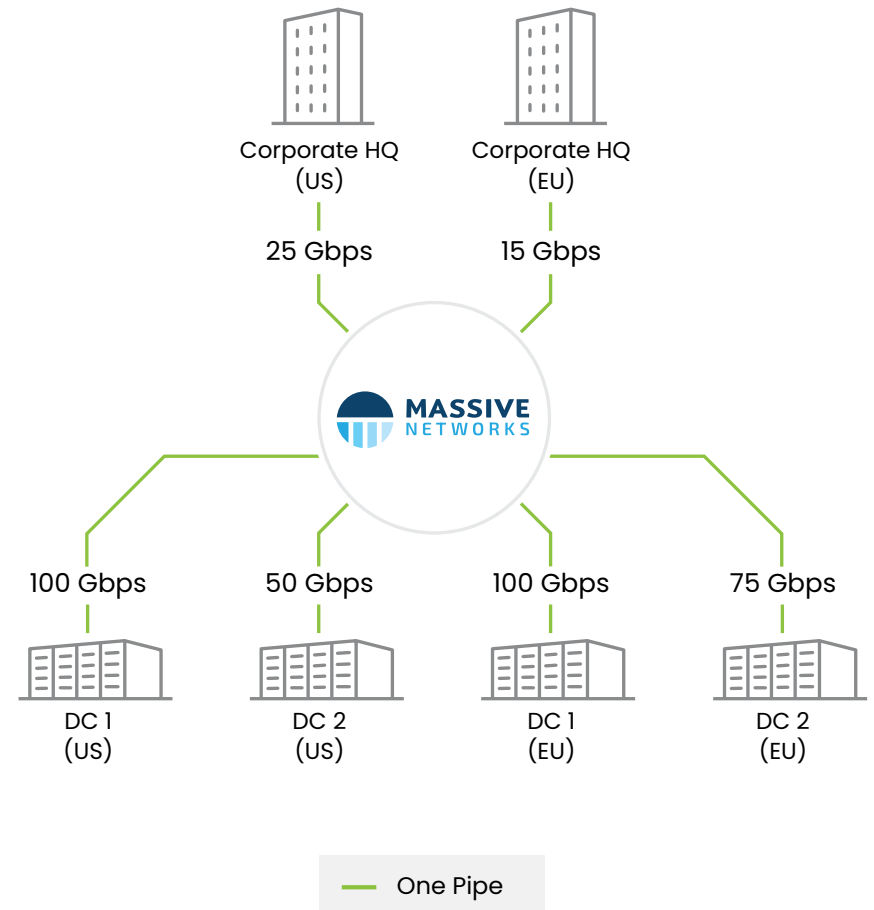
As data centers and cloud services become more decentralized, demands for more flexible and available connectivity are increasing exponentially. Traditional large, centralized data centers often fall short of meeting today's agility and efficiency requirements. Massive Networks' Data Center Connect emerges as the solution to these evolving needs.

Challenges for Traditional Carriers:

Traditional carrier services often have limitations in flexibility and customizability and can incur unexpected costs. These challenges typically force Customers to juggle multiple carriers for comprehensive connectivity, leading to complex management and fragmented support.

The Massive Solution:

Massive Networks' Data Center Connect provides seamless connectivity to over 60 million fiber-lit buildings worldwide, including colocation, major MSPs, and office buildings. It supports direct connections to public clouds using Cloud Connect, facilitating hybrid clouds' easy and dynamic creation. This integration simplifies data center connectivity, making it an integral part of your business infrastructure.

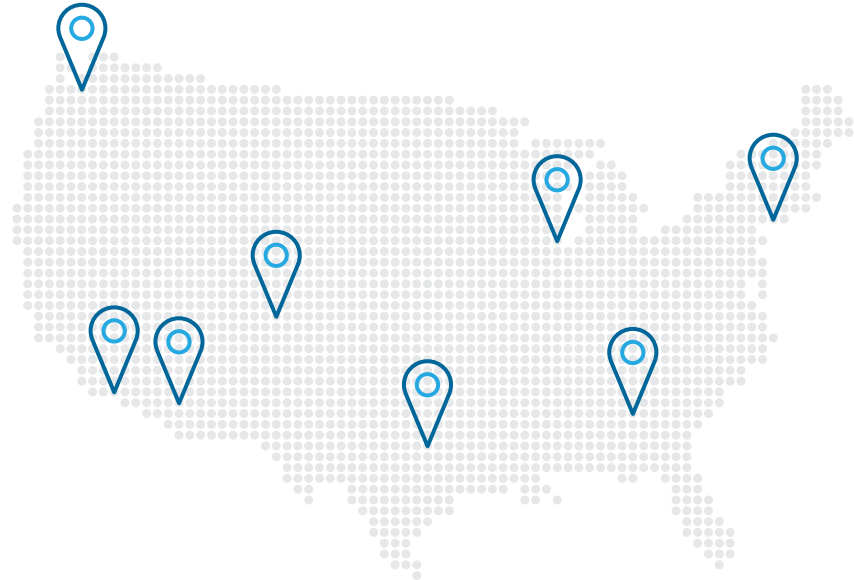


Data Center Connect Features:

- **Simplified Last Mile Connectivity:** Single-carrier support for last mile connectivity across 58+ countries, including colocations and MSPs.
- **Incredible Flexibility:** Ability to interconnect cabinets on the same network or segment them into dedicated networks.
- **High-Speed Connectivity:** Offers scalable speeds from 10Mbps to 400 Gbps.
- **Enhanced Security:** Private circuits connect data centers and offices, eliminating the need for VPNs and adhering to strict data privacy standards.
- **Simplified Operations:** Massive Networks is a single point of contact, ensuring operational ease from provisioning to billing.
- **Complete Support:** Fully U.S.-based, 24/7/365 managed NOC for uninterrupted assistance.

Our Primary Points of Presence (POPs)

- **60 Hudson NY, NY** - 164+ Network Providers
- **One Wilshire LA, CA** - 280+ Network Providers
- **910 15th St. Denver, CO** - 30+ Networks Providers
- **55 Marietta Atlanta, GA** - 85+ Network Providers
- **350 Cermak Chicago, IL** - 96+ Network Providers
- **615 N 48th St., Phoenix AZ** - 25+ Network Providers
- **Westin Bldg. Seattle, WA** - 125+ Network Providers
- **1950 Stemmons Dallas TX** - 102+ Network Providers



Cloud Connect

Revolutionizing Cloud Connectivity

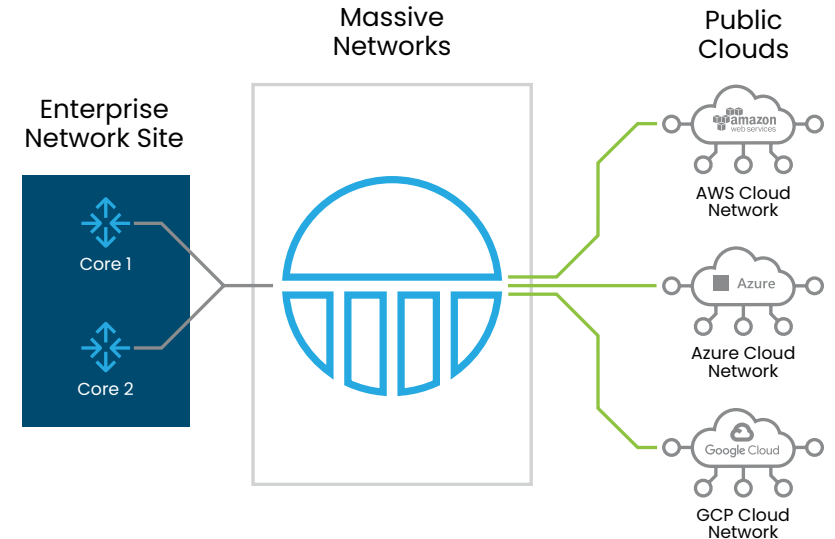
Cloud Connect by Massive Networks combines the ease and global reach of VPNs with the high performance and reliability of Carrier Ethernet. This integration ensures a reliable, secure, and streamlined solution for all business data streams, unlike traditional VPNs or Carrier Ethernet alone. By choosing Cloud Connect, businesses gain an evolved networking solution that guarantees the best cloud connectivity.

Direct Cloud Access

Cloud Connect offers a straightforward way to connect directly to major cloud services like AWS, Azure, and GCP. This solution is ideal for companies looking for reliable and secure cloud access, facilitating easy integration with services such as EC2 and S3. It's especially useful for businesses that combine cloud and on-premises infrastructure.

Reliable Cloud Connections

Cloud Connect directly connects to cloud providers, sidestepping the public internet for more secure and consistent data transfer. It's beneficial for critical services, where secure and fast data handling is essential. Cloud Connect also fits well with hybrid cloud setups, helping manage data between local data centers and the cloud.



One Pipe SaaS Connect



SaaS Connect

Streamlined SaaS Access:

Massive Networks' SaaS Connect offers a private, direct connection to major SaaS providers like Salesforce, Workday, and ServiceNow. This bypasses public internet routes, enhancing security and user experience. With over 60 million fiber-lit locations in 58 countries, connecting your team to SaaS platforms is more efficient than ever.

Robust Security:

SaaS Connect mitigates security threats by providing a dedicated connection, reducing vulnerabilities. It ensures sensitive information, such as financial data in Salesforce or personal details in Workday, remain secure, away from the public internet's risks.

Optimized Performance:

Our direct SaaS connections reduce latency and avoid public internet congestion, crucial for real-time content creation and collaboration. This results in instantaneous updates and a more synchronized workflow, essential for applications like Adobe Cloud.

High-Capacity Connectivity:

One Pipe goes beyond simple direct connections. It offers up to 400 Gig bandwidth, supporting diverse needs such as Blended Internet, Cloud Access, and Enterprise WAN. It's designed to scale with your organization, surpassing traditional connectivity limitations.



EVOLVE YOUR CONNECTIVITY

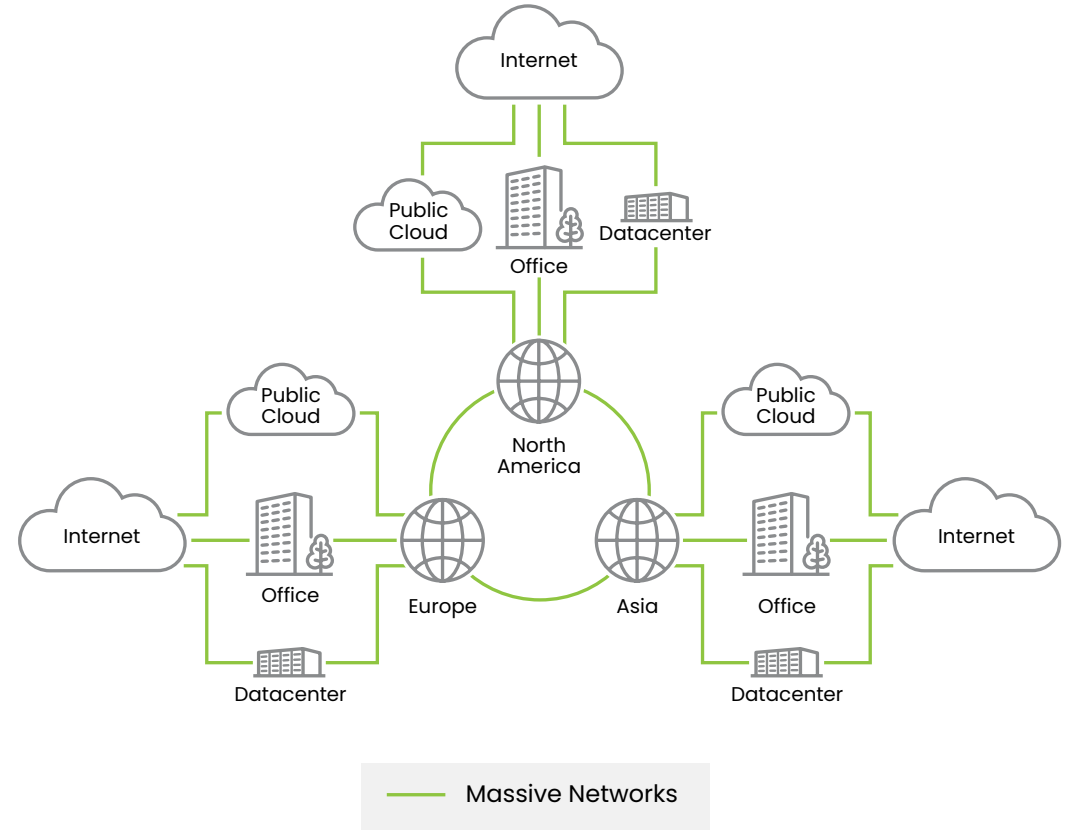


Optimized Connectivity Solutions for Evolving Networks

Discover how our transformative One Pipe Multi-Connect solution addresses and resolves our Customers' complex networking challenges. This evolution in network connectivity is not just about linking points A to B; it is about creating a seamless, adaptable, and positive experience in managing your network's diverse needs.

One Pipe Multi-Connect – Redefining Network Solutions

Massive Networks' One Pipe Multi-Connect offers a unique blend of security, reliability, and a simply positive experience. This solution exemplifies our commitment to leading the industry in network technology by addressing traditional pain points with innovative, customer-centric solutions.



Addressing Network Challenges

Security Risks & Performance Issues:

- **The Challenge:**

Businesses transmitting data over public internet face potential risks that can compromise their operations. At Massive Networks, we have developed custom solutions designed to significantly reduce these security risks and boost overall performance. By shifting from public to our proprietary One Pipe Multi-Connect private network infrastructure, we provide a secure, efficient, and more reliable operational environment.

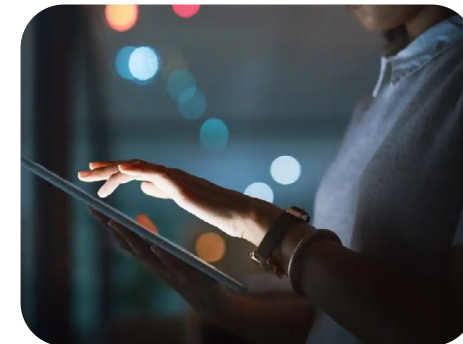
- **High latency and poor file transfer efficiency.**
- **Security risks associated with public internet data transfer.**
- **Excessive costs associated with MPLS.**

- **Case In Point:**

One of our Customers, with operational sites across the US, Europe, and Asia, was facing critical challenges in their operations due to suboptimal latency (300-400ms) stemming from their MPLS network and VPN dependency over the public Internet. This not only hampered day-to-day operations but also posed substantial security threats, jeopardizing software licensing integrity and sensitive business data.

- **The Massive Solution:**

Our Network Engineers spent time with the Customer for an in-depth analysis of the issues they were facing and developed a solution tailored to them. By transitioning their network to an Office to Office Connect supported by the powerful One-Pipe Multi-Connect infrastructure they dramatically reduced security vulnerabilities and latency issues. This shift resulted in a significant performance enhancement, with latency figures plummeting to 210-240ms, achieved Los Angeles Point of Presence (POP). This evolution from a public to a private network not only bolstered operational efficiency but also led to considerable cost savings, eliminating the need for expensive MPLS infrastructure.



Connectivity in Remote Locations:

- **The Challenge: Secure and reliable connectivity in remote locations.**

Operating in remote areas poses significant challenges for many of our customers, especially when using traditional carrier ethernet solutions. Such limitations can lead to frequent disruptions, affecting a business's reputation, revenue, and employee productivity. The key challenge is to establish reliable, high-quality connectivity for critical applications like voice and video, despite the geographical constraints.

- **Unreliable Remote Connectivity**
- **High MPLS Costs**



- **Case in Point:**

We faced this challenge head-on with a Customer that has multiple sites in some of the most remote U.S. locations. The task was to create a secure, efficient, and reliable network at each site for government-level communications.

- **The Massive Solution:** Leveraging our extensive industry reach, our network engineers designed a specific solution for each remote site. By integrating various fiber networks from multiple Tier 1 vendors into our One Pipe Multi-Connect Infrastructure, we created a secure private network between each location that no single Tier 1 vendor could accomplish on their own. This approach not only ensured consistent connectivity but also simplified the Customer's network management by consolidating multiple vendor interactions into a single point of contact with us. Our ability to build, manage, and maintain networks globally makes us the ideal Partner for businesses facing the unique challenges of remote connectivity.



Case Study: Medamorph's Network Evolution with One Point Multi-Connect

Company Overview:

Located in the heart of the technology center in Louisville, Colorado, Medamorph is an end-to-end automated solution provider to the medical industry. Their Software-as-a-Service (SaaS) solution has helped hundreds of medical companies automate the patient and EMR documentation process.

Their Challenge:

Our Customer Medamorph was having significant issues sharing patient and EMR records between their multiple sites. They faced latency issues between offices, their internet performance was slow, and they needed to avoid using public internet, a security risk, that could dramatically affect their HIPAA Compliance and place their critical business data in jeopardy.

- Sharing Patient and EMR records through a layer 3 network made abiding by HIPAA compliance difficult; each office was an island unto itself.
- Poor latency issues. Performance was limited to 100MS.
- Utilizing VPN, Medamorph incurred speed overhead with complicated connection issues and expensive bandwidth usage costs.

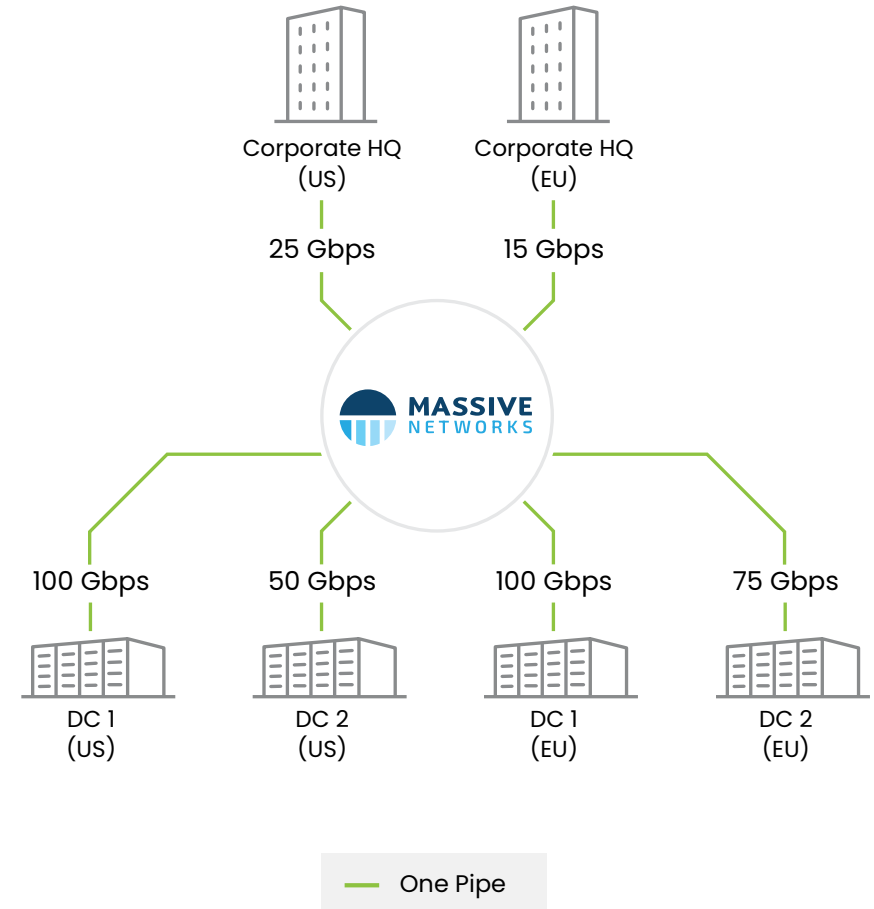


The Massive Solution:

Our network engineering experts worked directly with their technical teams to analyze and identify the cause of the high latency times. Additionally, they worked to design a solution that would address the issue of transferring everything over the public Internet. Our team solved the problem by configuring their business network into a private layer 2 solution. Because our Office to Office Connect is based on ethernet connections, the configuration eliminates security risks as well as latency issues, subsequently improving their performance speed, connectivity, and reliability.

Additionally, Medamorph was set up with a new edge device at our Denver PoP, creating a redundant fiber ring with our Data Center Connect. By utilizing Office to Office Connect and Data Center Connect on our One Pipe Infrastructure, Medamorph gained geographic redundancy from 100meg to 10gig speeds, and they no longer pay an exorbitant amount of money to maintain their VPN system.

- A redundant fiber ring route and VLAN that connects everything together.
- Backup solutions moved to a secondary data center providing geographic redundancy but at 10gig speeds.
- Successfully implemented a scalable infrastructure that can safely connect all current and future offices on a private layer 2 network ensuring all internal record sharing is no longer at risk.



The Massive Advantage

- **Comprehensive Solutions:** Massive Networks is not just a network upgrade; it is a network evolution. Our solutions are designed to integrate seamlessly, ensuring security, and delivering unmatched performance.
- **Positive Customer Experiences:** Our focus extends beyond technology to the experiences we create for our Customers. Medamorph's success story is a testament to our commitment to delivering solutions that not only meet but exceed expectations in performance and support.



“Throughout the process, Massive Networks was extremely responsive and provided optimal information in each stage of the implementation process. This experience has given us the confidence we need to share patient and EMR records securely, making us HIPAA-compliant between offices. Additionally, our bandwidth performance has improved exponentially. All of my expectations were exceeded with our involvement in Massive Networks.”

— *John Dougherty, CIO, Medamorph*



NEXT STEPS

Are you ready to evolve your Network?

Contact us to review your specific issues and requirements. We will help identify a secure, reliable, and simple solution that is scalable to your business.

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Evolve Your Network with One Pipe Multi-Connect





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