

Enterprise Connectivity on a Global Scale

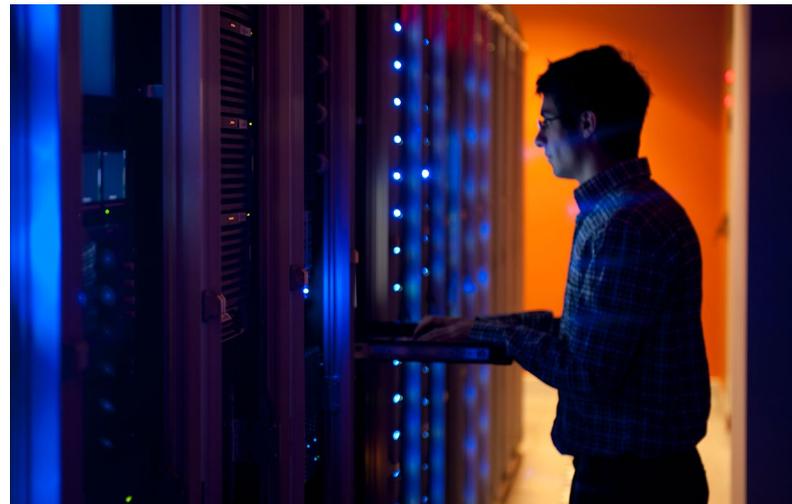
WHITEPAPER

A digital transformation is occurring as applications move from internally managed datacenters to multiple cloud locations, employees are globally distributed, and data is moving to edge locations.

These shifts increase the demands for enterprise connectivity. Enterprises must connect to many clouds, SaaS providers, and even partner and customer sites. Because data is moving away from centralized silos, networks no longer have a “center of gravity.”

In this world of hybrid clouds and edge computing, deploying and managing enterprise connectivity solutions is a slow, fragmented, and complex process. Enterprise networks require extensive design - a time-consuming and complicated activity. Any change in business requirements (such as adding a new cloud provider or connectivity with a new partner) requires a redesign and reconfiguration.

Network pricing constructs are not uniform, which makes them difficult to understand. Pricing for Cloud



networking is based on compute, storage, and bandwidth. Pricing for SDWAN is based on locations and bandwidth. Products, services, and licenses must be bought separately and stitched together.

SDWAN and MPLS are the prevailing technologies for enterprise connectivity. MPLS has the performance enterprises need (speed, scalability and security), but is prohibitively expensive and lacks the agility required for cloud networks of today.

SDWAN solved some of these issues, but can't replace MPLS since SDWAN does not provide guaranteed SLA-based connectivity. Furthermore, it requires the customer to manage their own network and policy, which can get complex as the number of sites, clouds, application policies, and tunnels increases in the network.

What today's enterprises need is an affordable network that provides the performance of MPLS with internet-class agility.

Introducing Graphiant Network Edge:

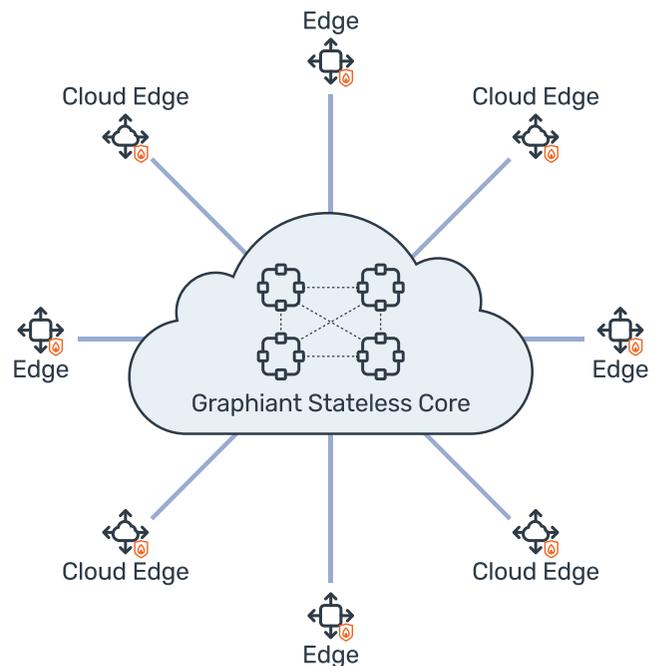
Graphiant provides this networking service: It combines the scale and security of private MPLS networks with the agility and last-mile flexibility of SDWAN and public internet. Graphiant Network-as-a-Service (NaaS) is a new architecture for the service economy.

The main components of the Graphiant Network Edge are as follows:

- **The Graphiant Core** is a natively multi-tenant core that handles reachability to Graphiant services. It is a high throughput, guaranteed delivery, stateless environment that allows enterprises to connect all their edges.
- **Graphiant edges** are deployed to customer sites that can deliver Graphiant's connectivity service.
- **Graphiant Portal** is a single pane of glass from where the customer can initiate connectivity, order new sites, set policies, and buy licenses and services.

The Graphiant Network Edge is:

- **Simple**, because no tunnel management or complex configurations are required.
- **Secure**, because it uses end-to-end encryption with quantum-resistant ciphers. Nothing is decrypted outside the customer's domain.



- **Private**, because the Graphiant Core is a private network, not the public Internet.
- **Reliable**, because there are end-to-end SLAs with guaranteed delivery.

The enterprise has access to intuitive management through the Graphiant portal - a single dashboard that provides administration, configuration, monitoring, analytics, reporting, and troubleshooting.

All points on the enterprise network connect to the Graphiant stateless core through edges. Any edge can connect to any other edge on the Graphiant network. All edges are multi-tenant. All traffic is encrypted edge-to-edge, and there is no need for any decryption within the Graphiant Core. It is a highly scalable architecture, with no tunnel management required. Graphiant edges are available in virtual, cloud, and hardware form factors.

Graphiant Network Edge Advantages:

Graphiant provides any-to-any connectivity with guaranteed delivery. The customer does not have to build or manage the Graphiant Core. Once connected to the Graphiant Core, an edge can reach any other edge.

All devices, offices, cloud, and IaaS services use the same unified, simple, and dynamic connectivity without the need for a mesh of tunnels. The result is a network that is simple to provision, manage, and scale with predictable performance, better security, and simple agility.

Graphiant offers significant benefits:

- **Time-to-market.** Public Internet class agility allows enterprises to deploy and scale cloud connectivity at the speed of business. This enables modern service economy enterprises to quickly serve new customers and introduce new services and applications.
- **Risk reduction.** Graphiant removes the need to decrypt traffic anywhere within the Graphiant network, reducing the threat surface, ensuring data sovereignty, maximizing privacy and simplifying compliance. The enterprise controls the encryption path and no outside entity will decrypt that traffic.

- **Security.** Implementing security measures when connecting dissimilar environments must be effortless and policy driven. Graphiant combines essential security services, such as application recognition, stateful traffic filtering, address translation, and more, using simple policy language that is embedded in the workflow. This advanced security model provides secure connectivity for all entities, from users and applications to offices or the IOT.
- **QoS and SLA.** Graphiant's private network edge delivers MPLS-class QoS and end-to-end SLAs.
- **Cost.** When compared to existing solutions, Graphiant slashes hardware and bandwidth costs, while eliminating support. The net result is that Graphiant cuts costs by two thirds.

What enterprises need is an entirely new, affordable solution that is robust, agile, scalable, and easily managed to support today's digital transformation—securely and dynamically. That is what Graphiant offers: a robust, flexible, secure, and efficient Network-as-a-Service.

[Learn more at graphiant.com](https://www.graphiant.com)



Next-Gen Networking that is Agile, Performant and Secure

