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Graphiant Backbone as a Service

SOLUTION BRIEF

As enterprises expand their operations and adopt more complex networking requirements, they face the challenge of connecting multiple branches, data centers, and cloud environments efficiently and securely.

The traditional backbone networks, reliant on MPLS or private leased lines, often come with high costs, rigid architectures, and restricted scalability.

To address these challenges, Graphiant introduces a revolutionary approach to enterprise networking: *Backbone as a Service (BaaS)*. This cloud-native service offers a next-generation solution that provides enterprises with secure, flexible, and cost-effective global connectivity.

Overview of Graphiant's Backbone as a Service (BaaS)

Graphiant's Backbone as a Service allows businesses to connect their resources—whether in the cloud, data centers, or on-premises—using a highly scalable, software-defined network infrastructure. By leveraging a stateless, secure, and policy-driven platform, Graphiant enables seamless connectivity across various environments, eliminating the need for costly and rigid traditional networking technologies.

Key Benefits of Graphiant BaaS

1. Uncompromising Security

In today's threat landscape, securing network traffic across a distributed enterprise is critical. Graphiant addresses security challenges with:

- **End-to-End Encryption:** Traffic is fully encrypted using the latest encryption standards and never decrypted while on the Graphiant backbone. This ensures that data is protected from potential interception or tampering.
- **Segmented Networks:** With Graphiant's BaaS, businesses can create secure, isolated network segments for different locations or workloads, preventing lateral movement in the case of a breach.
- **Stateless Core:** Unlike traditional networks where user data might linger on devices or in transit, Graphiant operates a stateless network architecture, minimizing attack surfaces and making it nearly impossible for attackers to extract meaningful data from the network backbone.

2. Unmatched Flexibility

One of the primary advantages of Graphiant's Backbone as a Service is the flexibility it offers enterprises. Traditional backbone networks are often slow to adapt to changing business needs, requiring manual configuration and expensive hardware investments. Graphiant BaaS solves this problem with:

- **Cloud-Ready Infrastructure:** Graphiant is built to support hybrid and multi-cloud environments. Enterprises can quickly connect their private data centers to public clouds like AWS, Azure, or Google Cloud using the same platform, enabling smooth transitions and integrations between various environments.
- **On-Demand Scalability:** With Graphiant, organizations can instantly scale their network bandwidth up or down, depending on real-time needs. This avoids overprovisioning and ensures that resources are used efficiently.
- **Global Reach:** Graphiant's backbone spans the globe, enabling businesses to connect data centers and cloud services across geographies without the limitations of traditional services.
- **API-Driven:** Graphiant's platform allows for easy automation through APIs, allowing businesses to integrate the BaaS solution with their existing management systems and workflows. This simplifies network management and reduces the need for manual intervention.

3. Significant Cost-Savings

Traditional backbone solutions are notorious for being expensive and inflexible. Graphiant BaaS provides a modern, cost-effective alternative, driving significant savings in several ways:

- **Pay-As-You-Go Pricing:** Graphiant offers a subscription-based pricing model, allowing businesses to pay only for the connectivity and bandwidth they use. This *OpEx model* eliminates the need for significant investments in long-term contracts.
- **Lower Operational Costs:** With automated network management, reduced dependency on physical infrastructure, and simplified operations, Graphiant helps reduce ongoing maintenance and operational costs.
- **Eliminating Expensive MPLS:** By replacing legacy MPLS with Graphiant's Backbone as a Service, businesses can achieve ***more than 50% savings*** on networking costs, particularly for global enterprises with multiple locations.

Use Case:

Global Enterprise Migrating Out of Their Data Centers

Challenge

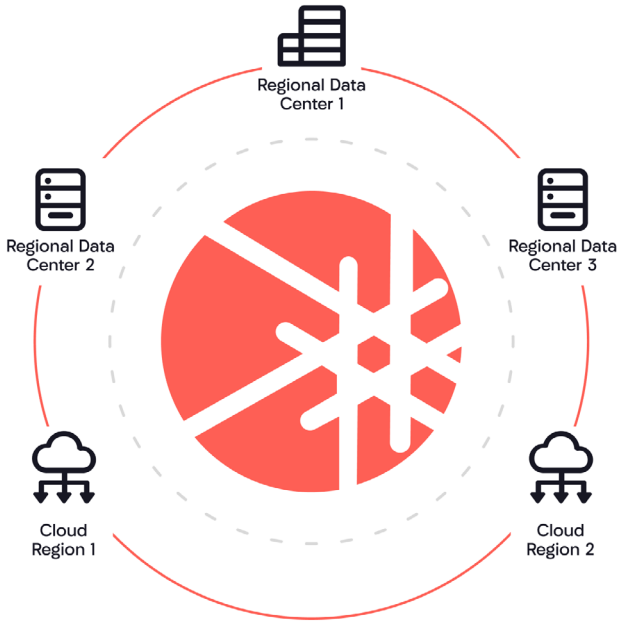
A global enterprise with Data Centers and Cloud Regions across North America, Europe, and Asia faced high costs, limited scalability, and performance issues with their existing MPLS-based backbone. The need to connect to multiple public clouds further complicated the setup.

Solution

The enterprise adopted Graphiant's Backbone as a Service to replace their MPLS connections and integrate cloud services into their network.

Results

- *Cost Reduction:* The enterprise saw a 40% reduction in their networking costs.
- *Improved Agility:* New services were connected to the network in hours, not weeks.
- *Enhanced Security:* With encrypted connections and Zero Trust policies, the network was significantly more secure than their previous setup.



How Graphiant BaaS Works

Graphiant's solution is powered by its *Graphiant Stateless Core*, which uses a secure, policy-based networking model. Businesses can use this platform to:

- **Establish Secure Connections:** Easily set up secure connections between co-location facilities, data centers, and cloud environments using a centralized interface.
- **Manage Policies:** Configure policies for routing, security, and bandwidth allocation without manually configuring each network device.
- **Monitor in Real-Time:** Gain real-time visibility into network performance, security events, and usage statistics, allowing for proactive troubleshooting and optimization.

Conclusion

Graphiant's *Backbone as a Service (BaaS)* provides a modern, secure, and flexible solution for enterprises looking to move beyond traditional networking constraints. With its focus on security, scalability, and cost-efficiency, Graphiant BaaS is the ideal platform for organizations that need to connect a distributed infrastructure without the financial and operational burdens of legacy networking solutions.

By adopting Graphiant's BaaS, businesses can future-proof their networks, ensuring they are prepared for today's and tomorrow's demands.

Learn more at graphiant.com