

Solution Brief

# Aryaka's Cloud-First WAN

The Ultimate MPLS Replacement



## Neither MPLS nor the internet can address global application performance issues

Solutions that only combine MPLS and the Internet to simplify network operations and reduce costs cannot address performance issues for mission-critical and business-critical applications deployed globally.

While these solutions can work for regional/local deployments and non-mission-critical applications, they fall short on global deployment scenarios where applications are business-critical and time-sensitive.

Edge-based SD-WANs cannot solve global application performance challenges due to the lack of a global private network.

### MPLS is Legacy

#### Not built for Cloud/SaaS applications

MPLS provides almost negligible access and connectivity to Cloud/SaaS based applications. Direct Connect solutions address a part of the problem but only 1-2% of cloud services/SaaS applications are hosted in a Direct Connect-type datacenter.

#### Requires management of multiple contracts

The lack of a global MPLS provider means that organizations get stuck with multiple providers across various geographies. As a result, IT teams often find themselves stuck in managing multiple contracts, SLAs, and vendors.

#### Needs Investment in WAN Optimization Controllers (WOCs)

Businesses need to add WAN Optimization hardware on top of MPLS for better application performance. The capital costs of procuring and deploying appliances and OpEx incurred in managing them globally can be very high.

#### Takes 3-6 Months to Deploy

MPLS connections take 3-6 months to be up and running in some remote locations.

#### Incurs Significantly Higher Costs

MPLS bandwidth is expensive, especially in remote geographies like China and the Middle East. The total cost of ownership can run into millions of dollars for mid-size and large global businesses.

#### Requires Constant Monitoring and Management

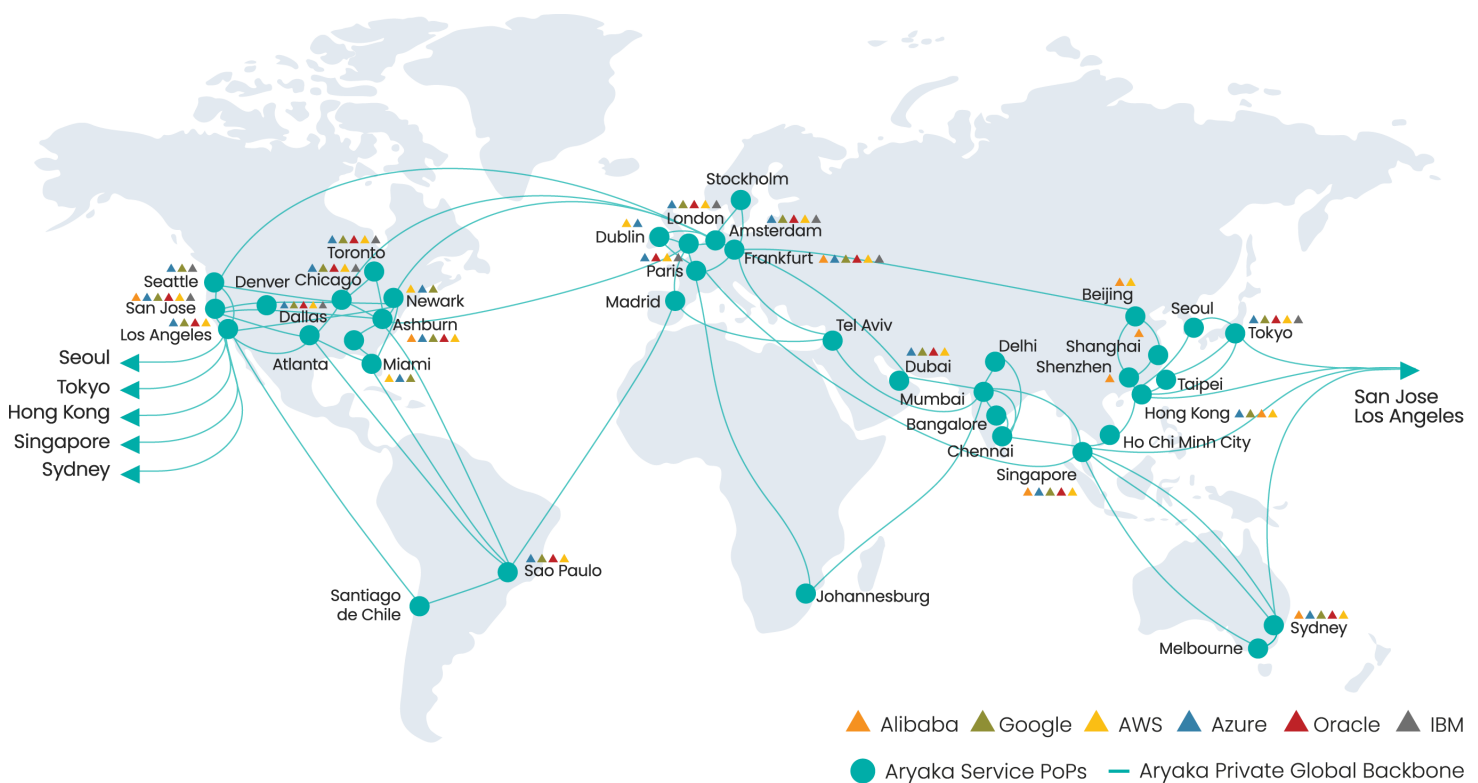
IT leaders need to invest in network monitoring software and spend considerable time and resources to monitor and manage these networks.

## Aryaka's Cloud-First WAN : The Ultimate MPLS Replacement

- > MPLS Grade Reliability with more than 99.99% uptime
- > Provides up to 40x faster performance for all applications - on-premises, cloud-based, and SaaS
- > Includes built-in WAN Optimization and SD-WAN capabilities
- > Includes network and application visibility
- > Delivered as a fully managed service with 24x7 CCIE level support
- > Deployment in days, not months
- > Up to 56% cost savings compared to MPLS, SD-WAN, and WAN Optimization appliances

## Aryaka's Global Private Network

Aryaka's global private network has been built from private Layer 2 links from top service providers worldwide, connecting over 35+ service nodes (PoPs) located on all 6 continents, close to business hubs and major cloud services. It delivers industry-leading latency, jitter and packet loss to global businesses to provide predictable application performance to users around the world.



- 35+ Service Nodes aka PoPs
- Covers 6 continents
- Built on top service providers worldwide
- Service Nodes less than 30ms from 95% of knowledge workers globally

# The Aryaka SmartServices Platform

## ● Aryaka SmartConnect SD-WAN Functionality

The combination of Aryaka's HybridWAN and LinkAssure technologies enables optimal dynamic path selection and load balancing for high-throughput flows, while eliminating packet loss and jitter on the Internet edge for transactional and real-time applications. In addition, the solution converges WAN-edge functionality at branch offices with cloud access and VPN connectivity, routing and optimization in a single customer premises equipment (CPE).

## ● Aryaka SmartOptimize Network and Application Optimization

Aryaka's includes built-in WAN Optimization through multi-segment TCP optimization, compression, and data deduplication, all of which provide up to 95% bandwidth savings and 40x faster performance for on-premises and cloud/SaaS applications.

## ● Aryaka SmartCloud Cloud/SaaS Connectivity and Acceleration

Aryaka integrates cloud- and SaaS-based applications into the Aryaka's global network using IPsec VPN on the last mile. Through the strategic distribution of PoPs, Aryaka's private network is within 1-5 milliseconds from most cloud datacenters around the world. Aryaka also facilitates private connectivity to Microsoft Azure with ExpressRoute and to Amazon Web Services (AWS) using Direct Connect.

## ● Aryaka SmartSecure Edge and Cloud Security

Aryaka's security-as-a-service includes managed firewalls, micro-segmentation for multi-tenancy, integration with cloud security gateways, and secure remote access for remote workers. Aryaka's approach is to offer choice in security vendor selection as well as where to deploy the capability - edge, cloud, or both.

## ● Aryaka SmartInsights Network and Application Monitoring

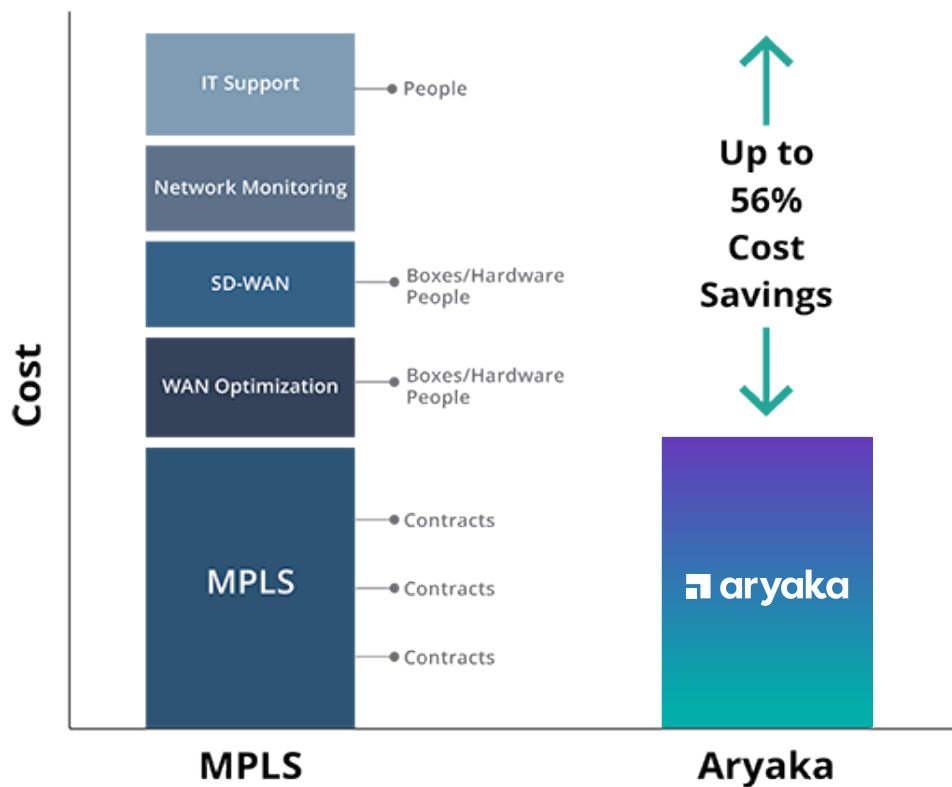
The web-based MyAryaka™ cloud portal offers an end-to-end, fully transparent network and application monitor. This includes network health-check tools and advanced traffic analysis.

## ● Aryaka SmartManage End-To-End Visibility and Monitoring

Aryaka provides 24x7x365 monitoring of links, packet loss, and latency to proactively address network concerns. Aryaka can also provide link procurement, planning and activation of tier-1 broadband connectivity regionally and worldwide.



## Delivered as-a-Service: Zero CapEx with 24/7 Support



### Simplicity

- Fully Managed Service with 24x7 CCIE-level support

### Agility

- Deploy Connectivity at New Sites in Days Not Months.
- Scale Bandwidth Up or Down-On-Demand in Minutes

### Lowest TCO

- Zero Capital Expenditure
- Up To 56% Cost Savings Compared To MPLS, SD-WAN, and WAN Optimization Appliances

	Vendors (DIY)	Aryaka Cloud-First WAN	Carriers / MSPs
Fully Managed Service with 24/7 support and Global NOCs	✗	✓	✓
Managed Lastmile connectivity with procurement and monitoring	✗	✓	✓
Multi-Cloud Architecture with Direct connectivity	✗	✓	✗
Guaranteed Application Performance with built-in WAN optimization	✗	✓	✗
Global L2 Points-of-Presence reaching 95% of world's knowledge workers	✗	✓	✗
Consistent Global SLAs with single point of contact (SPOC)	✗	✓	✗
Secure Transport, Edge and Managed Firewall as-a-service	✗	✓	✓



# About Aryaka Networks

Aryaka is the leader in delivering Unified SASE as a Service, a fully integrated solution combining networking, security, and observability. Built for the demands of Generative AI as well as today's multi-cloud hybrid world, Aryaka enables enterprises to transform their secure networking to deliver uncompromised performance, agility, simplicity, and security. Aryaka's flexible delivery options empower businesses to choose their preferred approach for implementation and management. Hundreds of global enterprises, including several in the Fortune 100, depend on Aryaka for their secure networking solutions. For more on Aryaka, please visit [www.aryaka.com](https://www.aryaka.com)



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