



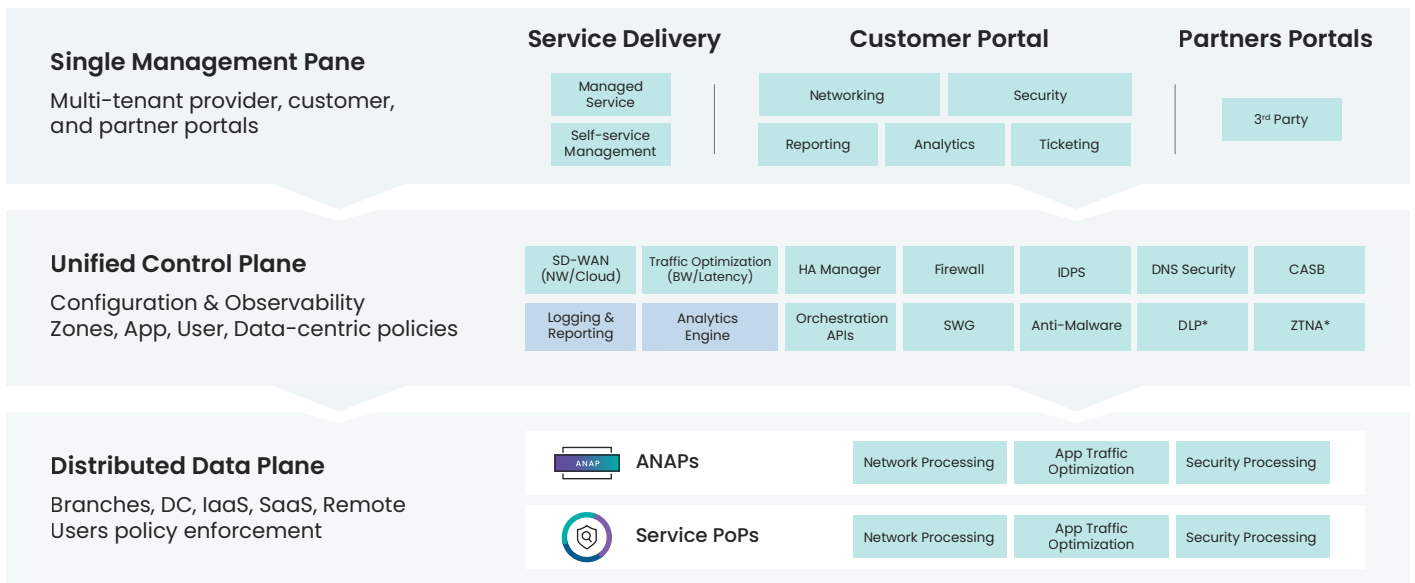
Aryaka High Availability

Datasheet

Overview

Aryaka’s High Availability ANAP (Aryaka Network Access Point) builds on our virtualized, software-defined branch (SD-Branch) solution as part of Aryaka’s Unified SASE as a Service. It aggregates multiple WAN connections and provides converged network services including routing, encryption, security and traffic management. Our high availability configuration options allow for seamless, low-latency, secure connections between, branch locations, remote users, and the cloud.

Aryaka OnePASS Architecture



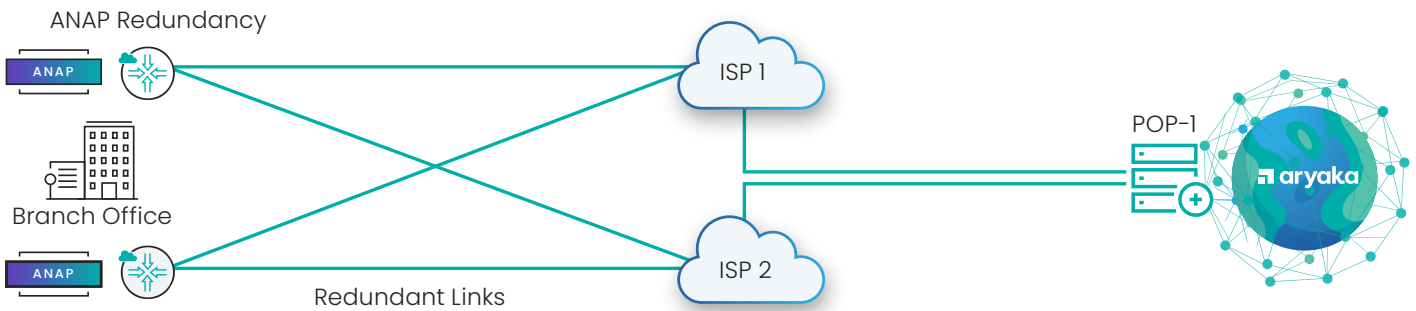
*Coming soon

The ANAP serves as the gateway to Aryaka’s managed global SD-WAN and Unified SASE as a Service platform, seamlessly integrating advanced networking, application optimization, acceleration, and security capabilities.

Designed with flexibility in mind, the ANAP portfolio includes both physical and virtual appliances built on a white-box architecture running an industry-standard Linux operating system. With built-in virtualization (KVM) and containerization, it efficiently supports Virtual Network Functions (VNFs) for enhanced adaptability.

Businesses of all sizes can rapidly deploy enterprise-grade connectivity to remote and branch offices—often lacking dedicated IT staff—within 48 hours using the ANAP’s Zero Touch Deployment (ZTD) model, ensuring fast and hassle-free implementation.

Aryaka ANAP Redundancy and High Availability



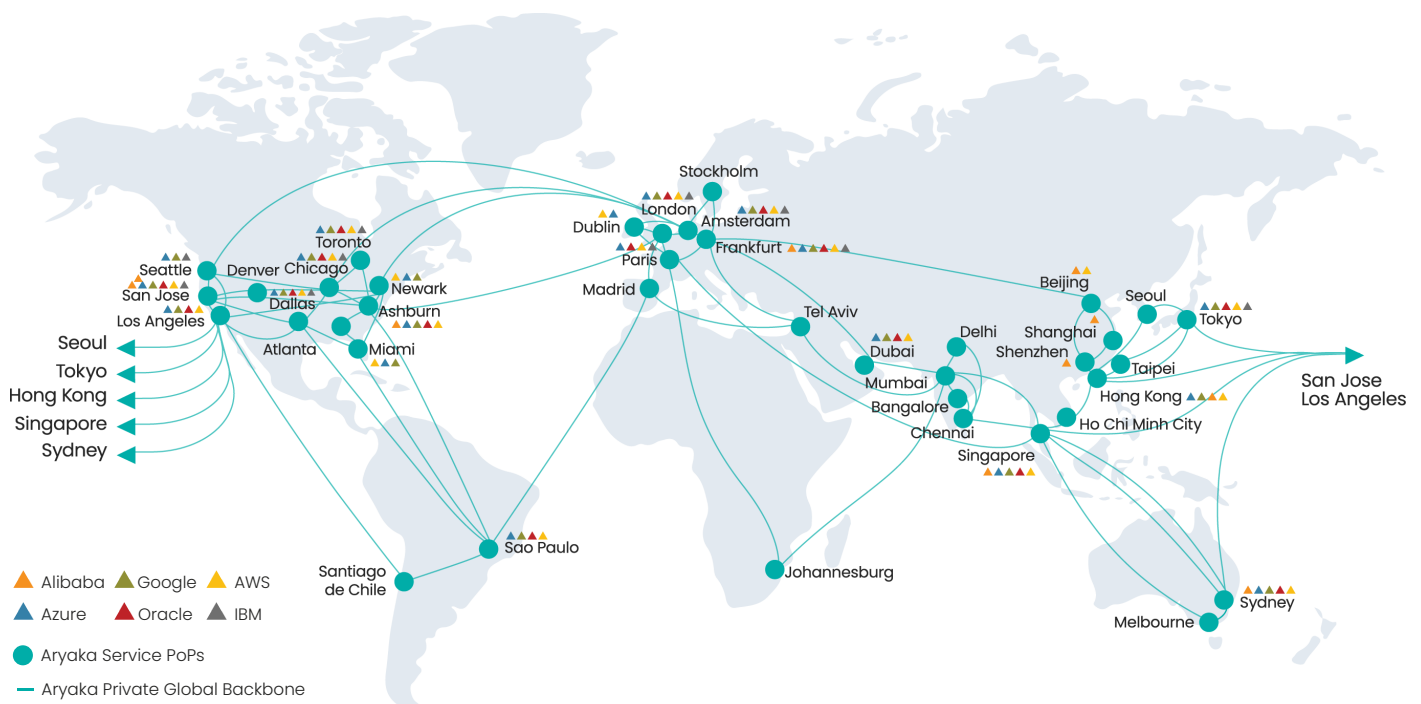
Aryaka ensures high availability through a comprehensive suite of redundancy and failover mechanisms, minimizing downtime and maintaining seamless connectivity. With dual IPsec tunnels to different ISPs, ANAP-to-ANAP backup tunnels, and direct IPsec failover capabilities, enterprises benefit from resilient link redundancy.

The Virtual ANAP Redundancy Protocol (VARP) enables an active-standby model similar to VRRP for ANAP failover, while SMARTlink enhances reliability with active-active ISP link usage, selective routing, load balancing, and advanced packet loss recovery techniques. Additionally, Aryaka supports dual MPLS tunnels with redundant ANAP deployments, ensuring continuous network performance even in the event of link failures.

Fast, Seamless, and Reliable Cloud Connection with Aryaka POPs

Aryaka’s global private network delivers fast, reliable access to cloud and SaaS applications for business users worldwide. With strategically positioned Points-of-Presence (PoPs) across all six inhabited continents, Aryaka ensures optimal connectivity, enabling seamless access to critical applications and data centers from any location.

Many vendors emphasize the number of PoPs as a key selling point, suggesting that "more is better." However, Aryaka’s scale-out architecture challenges this notion by allowing a single PoP to support an unlimited number of customers. In major regions like Ashburn and Frankfurt, Aryaka operates "PoP clusters" that provide the equivalent capacity of 10 to 50 PoPs compared to other vendors. With a strategically distributed data plane and single-pass architecture, Aryaka’s existing PoP footprint ensures reliable, high-performance service delivery, including Unified SASE. In the middle mile, where continents and regions interconnect, fewer PoPs can actually enhance performance—such as a direct Sydney-to-San Jose link outperforming a route through Tokyo or Seoul.



Features

Aryaka ANAP High Availability







Edge Redundancy	Dual IPsec tunnels to different ISPs for link redundancy
VARP (Virtual ANAP Redundancy Protocol)	VRRP-like model for ANAP redundancy in active-standby model
ANAP-to-ANAP backup tunnels	Direct IPsec tunnels between ANAPs across the internet in the unlikely case the primary Aryaka tunnel fails
ISP link redundancy	<p>SMARTlink allows the use of 2 ISP links in an active-active configuration</p> <ul style="list-style-type: none"> • Path Selection: Selective routing across the links • Load Balancing: Distribute traffic across the links on a per-packet basis • FEC: Replicate or duplicate traffic across the links to recover lost packets • Timed Replay: flows can be replayed within a link after a delay, to recover lost packets • Path Loss Recovery (PLR): Introduces a feedback mechanism between the POP and ANAP to determine the exact packets lost during transmission, and recover these packets
MPLS link redundancy	Dual MPLS tunnels with redundant ANAP deployment

Licensing




High Availability as an add-on of Aryaka SD-WAN and has two licenses site licenses for ANAP and site licenses for POPs. The site licenses are used to enable High Availability services at a branch/office location and for POP locations.

Networking Service	Prerequisite	Entitlements Upon Subscription
Aryaka High Availability	Aryaka SD-WAN	N/A



Aryaka SD-WAN Features

 <p>Secure SD-WAN</p>	 <p>Global Connectivity</p>	 <p>Multi-Cloud</p>
 <p>WAN Optimization</p>	 <p>AI> Perform</p>	 <p>Secure Remote Access</p>

Aryaka Unified SASE Features

 <p>NGFW-SWG</p>	 <p>IPS</p>	 <p>Anti-Malware</p>
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Aryaka Advanced Security Features

 <p>CASB</p>	 <p>DLP*</p>
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*Coming soon



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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

[About Aryaka](#)