

# REDUNDANCY AND HIGH AVAILABILITY

## HOW TO AVOID NETWORK (AND APPLICATION) DOWNTIME WITH ARYAKA'S REDUNDANT, HIGH-AVAILABILITY WAN SERVICES

Knowledge-driven, global businesses are adopting always-on business models. Today's consumers want what they want when they want it, and in the Internet age that "when" could be anytime, day or night.

In order to keep up with this constant demand, global businesses depend on application and network uptime. As workers increasingly do their jobs outside of the traditional office and as applications move to the cloud, global business leaders are learning that the enterprise WAN is a critical enabling technology for everything from email to collaboration tools to cloud-based applications.

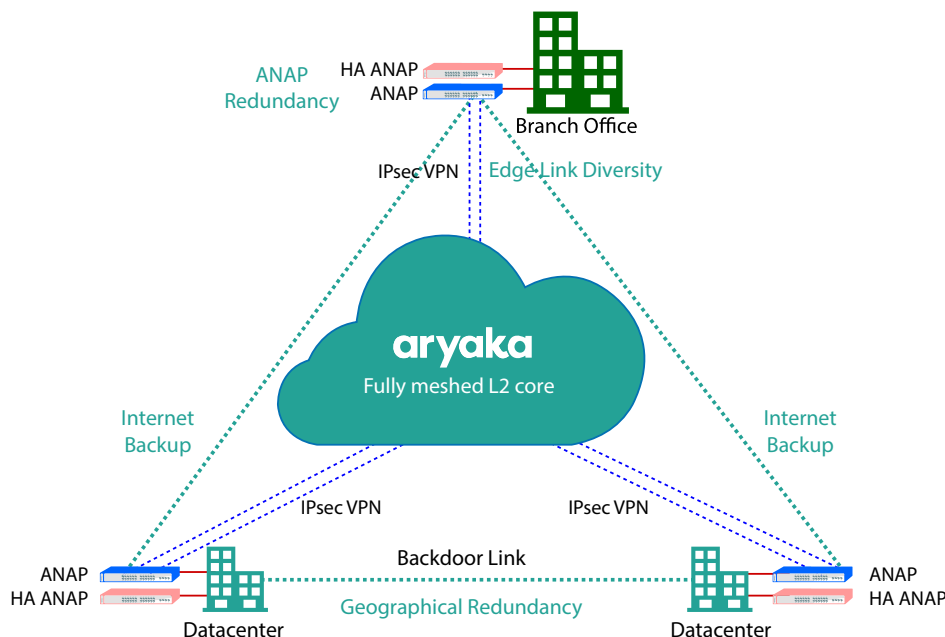
Application uptime doesn't matter if knowledge workers can't access those applications in the first place. Network uptime is directly correlated to business productivity and your bottom line.

If your network is down, your business is down.

To ensure network uptime, redundancy and high availability are now must-haves. This document outlines the levels of diversity, redundancy, and high availability built into the design of all Aryaka services.

### HIGH AVAILABILITY IN THE CORE NETWORK

Aryaka has built a global platform of strategically located Points of Presence (POPs), connected by fully meshed, private Layer 2 links. Aryaka has also built in QoS capabilities. Our POPs have multi-path capabilities for access and core network connectivity, using 2 or more links from different network providers.



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## HIGH AVAILABILITY AT POPS

The POPs are architected not to have a single point of failure, including network connectivity and equipment.

**Geographical Redundancy/Disaster Recovery:** Customers using Aryaka’s solution can connect their business-critical locations, such as their global datacenters, to multiple POPs for disaster recovery purposes.

## HIGH AVAILABILITY AT CUSTOMER SITES

**Edge Link Diversity and SLAM:** Each customer site can have dual VPN tunnels to the closest Aryaka POP. The tunnels can originate either from the customer’s edge router/firewall or from the Aryaka-provided Aryaka Network Access Point (ANAP). We always use different providers for the VPN tunnels that connect to our POP. Aryaka’s Smart Link Analysis and Monitoring (SLAM) continuously monitors these tunnels for availability, packet loss, and latency, automatically selecting the best link to use.

**ANAP Redundancy:** We also provide the ability to have a second HA (High Availability) ANAP device per location for even greater redundancy.

**Tertiary Redundancy/Internet Backup:** In addition to the connections into the Aryaka network, for an additional level of availability and protection against outages, backup site-to-site VPN tunnels are supported

### CUSTOMERS



Altria



Standard Life



Skullcandy

