


## Global Managed SD-WAN


***The power of managed SD-WAN, with the reliability of a global enterprise-grade private network.***

A close-up photograph showing two hands, one from a person in a white shirt and one from a person in a white shirt, holding a white puzzle piece against a green background.

AireSpring Global Managed SD-WAN frees enterprises from the complexities of procuring, deploying, monitoring, managing and supporting SD-WAN and its many components. These include, multiple circuits at each site, with numerous carrier contracts and NOC support organizations. They also involve the many challenges associated with different time zones, and languages within different countries, that complicate a global SD-WAN.

We transform expensive, complex and rigid legacy networks into simplified, cost-efficient, agile and performance-driven business solutions. AireSpring Global Managed SD-WAN includes everything enterprises need to deliver applications reliably and fast, anywhere on the planet.

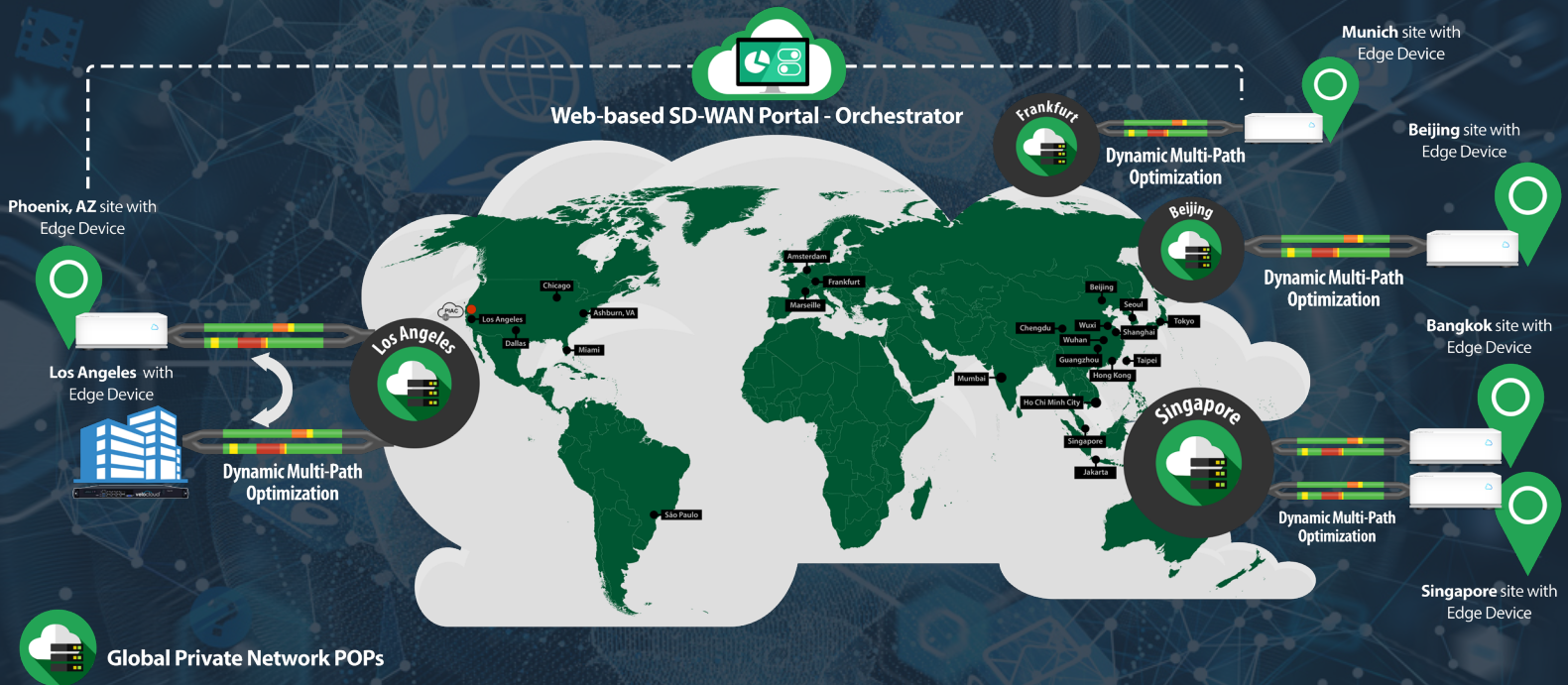
Our customers benefit from the industry-leading SD-WAN, our carrier-grade Global Private Network (GPN) with distributed PoPs, and last mile circuit procurement, all monitored and supported through our global NOCs.

A photograph of a server room. A person is visible in the foreground, looking at a laptop. In the background, there are rows of server racks with various equipment.

AireSpring Global Managed SD-WAN leverages our strategic partnership with VMware, with the SD-WAN technology platform. VMware SD-WAN has been named the leader two years in a row, in Gartner's 2018 and 2019 Magic Quadrant for WAN Edge Infrastructure.

Built upon the strength of an industry leading SD-WAN, with the reliability of our Global Private Network, AireSpring advances connectivity to a new level, taking down barriers that formerly challenged national and multi-national enterprises. We provide solutions for problems surrounding long-haul Internet quality of service, reliability, and regulatory restrictions between certain geographic locations.

## Value of AireSpring's Global Private Network



Running existing network infrastructure, while deploying a new SD-WAN, can be a daunting and costly challenge. It requires seasoned professionals with specialized skills, and a deep understanding of hardware, software, networking, diverse carrier infrastructure, and international regulatory restrictions within different international locations.

A successful SD-WAN needs to be planned, deployed, monitored and supported with best practices, and optimal technologies and circuits for every branch office, data center, and cloud. AireSpring Global Managed SD-WAN simplifies networking, and delivers the economical, reliable, flexible, and scalable global connectivity national and multinational organizations need to compete in today's digital environment.



## Flexibility to Mix and Match Connectivity

- Complete edge-middle-edge connectivity via GPN Tunnels, combines the power of SD-WAN with the reliability of AireSpring's Global Private Network, a resilient, fully-meshed, global private layer 2 network, backed by a single-provider global SLA.
- Hybrid architecture combines AireSpring's Global Private Network for international connectivity with Over-the-Top (OTT) DMPO Tunnels utilizing public Internet for domestic and regional connectivity.

## The AireSpring Advantage™

- Powered by VMware SD-WAN - Gartner Magic Quadrant Leader for WAN Edge Infrastructure
- Fully-managed Layer 2 Global Private Network, backed by a single-provider global SLA that replaces the inherent unreliability of long-haul public Internet, to reduce latency, packet loss, jitter and over-subscribed networks
- Flexible network deployment options with a managed hybrid network that combines AireSpring Global Private Network and last mile public Internet
- PoPs geographically distributed across the world
- Replace or augment expensive, capacity-constrained, and rigid legacy MPLS networks
- Leverage a powerful orchestration and management platform for deep granularity and improved control
- Access highly-available, dedicated connectivity to-and-from locations in China
- Leverage a single vendor to source, design, implement, monitor, and support, last mile Internet connections - globally
- Proactive 24/7/365 NOC network monitoring and resolution support, covering all connectivity, whether provided by AireSpring, or other vendors

## AireSpring Global Managed SD-WAN - Key Capabilities

- ▶ Dynamic multi-path (DMPO) selection – Ensure reliable and fast performance, with automatic monitoring, detection and configuration of circuit characteristics, routing and QoS settings.
  - Circuit steering and remediation uses dynamic, automatic application-aware per-packet circuit steering, based upon business application priority, embedded knowledge of the application's network requirements, and the real-time capacity and performance of the circuit.
  - On-demand mitigation of individual circuit degradation through forward error correction, jitter buffering and negative acknowledgment proxy, protects the performance of priority and network sensitive applications.
- ▶ The combination of dynamic per-packet circuit steering and on-demand mitigation, delivers sub-second blackout and brownout protection, improving the user experience with optimal application availability and performance.
- ▶ Zero-touch edge provisioning – Provisioned centrally, and with the click of a button, as soon as SD-WAN edge devices are connected to the Internet, they automatically authenticate, connect, and receive configuration instructions.
- ▶ End-to-end visibility - Monitor and configure your network using our single-pane-of-glass web portal.
- ▶ Application visibility – Built-in Application Identity Engine Database with Smart QoS/QoE supports over 3,000 applications. Enables instant prioritization, marking, rate limiting and more, using highly granular traffic characteristics. Traffic is steered over the right WAN circuit, and remediated when required, based on business policy and continuous real-time assessments of the circuits.
- ▶ Hypersonic 2ms hitless failover/failback- AireSpring's fast and reliable failover/failback ensures that VOIP, video, stateful protocols and all applications have zero impact or knowledge of failure.
- ▶ IP Mobility- AireSpring-assigned public Internet IPs are delivered to a port on the back of the SD-WAN box to your firewall or other Internet facing device and are "sticky" to the SD-WAN box—the IP doesn't change even if front-end carriers and circuits change, and the box works across the globe.
- ▶ US and Global ¾ Protection- The ability to take traffic based on application, protocol, port or network & prefix to send it in-tunnel using SD-WAN to an AireSpring gateway in our data center, improving traffic and mitigating packet loss, jitter and out-of-order packets. This increases overall experience 10x better than raw Internet and flexibly allows customers to enhance (at least "3/4") any Internet bound traffic to any destination. This feature comes in 2 offerings:



## AireSpring Global Managed SD-WAN - Key Capabilities

- 3/4 protection domestic – Sends traffic from the SD-WAN edge to AireSpring’s SD-WAN gateway in market (nearest PoP) then onward to the Internet from our highly peered data centers worldwide.
- 3/4 protection backhaul - Traffic can be backhauled from any customer SD-WAN enabled site into AireSpring’s SD-WAN Global Private Network (GPN) with 0% packet loss, 0% jitter and 0% out-of-sequence packets and exit via any other market (USA, customer site or international market of choice), delivering consistent Quality of Service (QoS).
- ▶ VMware Edge Network Intelligence- VMware Edge Network Intelligence (ENI) natively integrates with VMware SD-WAN and is an excellent tool for organizations to deepen their understanding of their network architecture at the SD-WAN edge point and to become more familiar with their data flow. ENI is a highly secure, machine learning (ML) analytics engine, and artificial intelligence IT operations (AIOps) solution developed to identify, monitor, and diagnose problems with devices connected to the enterprise edge.
- ▶ PIAC – Premium Internet Access for China (PIAC) is a premium internet service for mainland China that provides optimal internet access to global resources.
- ▶ Security – AES encryption, regulatory compliance, stateful firewall, and micro-segmentation.
  - Fortinet FortiGate firewalls are purpose-built with security processors to enable the industry’s best threat protection and performance for SSL-encrypted traffic. By providing granular visibility of applications, users, and IOT devices, these appliances are designed to identify issues quickly and intuitively.
- ▶ Reliable and diversified network - AireSpring’s meshed, geo-redundant network, provides true network diversity and supports disaster recovery options, to ensure business continuity.



*AireSpring has received numerous industry awards for “Excellence in Customer Service,” “Product of the Year,” “Best Telecom Deal,” “Members Choice Top Reseller,” “Best in Show,” and “Top Channel Program.”*

Ready to find out more? Contact us at 888-389-2899,  
email [sales@airespring.com](mailto:sales@airespring.com), or visit our website at [www.airespring.com](http://www.airespring.com)