

DATA SHEET

ARUBA SD-WAN

Improved visibility and control at the WAN edge

Aruba Software-defined WAN (SD-WAN) technology simplifies wide area network (WAN) operations to enhance the management of public and private WAN traffic. Aruba SD-WAN is ideally suited for distributed enterprises who need to better understand, route and control traffic as it enters and crosses the WAN edge.

To support a growing shift toward cloud-based services, Aruba SD-WAN expands the Quality of Service (QoS) and security benefits of the Aruba WLAN and LAN architecture to enhance the end-user and IT experience. Industry verticals such as retail, hospitality and healthcare which typically operate lean, centralized network teams can easily improve the time it takes to deploy, manage and maintain broadband and MPLS WAN connections.

ARUBA CENTRAL NETWORK MANAGEMENT

Cloud-based policy, configuration, and monitoring capabilities simplify and improve deployment, performance and maintenance. Simple-to-use dashboards provide visibility and flexible options for deploying and configuring Aruba branch and headend gateways, as well as virtual gateways.

BRANCH GATEWAYS

The Aruba 7000 Series are a versatile family of hardware-based appliances that support SD-WAN deployments for all sizes of branch locations. Each branch gateway is capable of supporting multiple connection types that include WAN, WLAN, and LAN interfaces. The branch gateway features policy-based routing, an application and user aware firewall, WebCC for content filtering, and WAN compression. For High Availability (HA), branch gateways can be deployed in active/standby or active/active mode.



KEY FEATURES

- Unified management for WAN, WLAN, and LAN via Aruba Central
- Policy-based routing for 2,600+ applications with no additional hardware
- Up to 6 Gbps of stateful firewall throughput for each branch deployment
- Centralized policy enforcement for WAN, WLAN, and LAN
- Integration with web security gateways and on-premises security firewalls

HEADEND GATEWAY

The Aruba 7200 Series appliances are used as headend gateways, or VPN concentrators (VPNC), to terminate branch gateway connections. These gateways scale to meet the needs of hundreds or thousands of branch networks. In a typical dual hub-and-spoke model, branch gateways establish IPSec tunnels to one or more headend gateways hosted in primary and backup data centers. For HA, multiple headend gateways can be deployed at a single site or pairs of headend gateways can be deployed at multiple sites.

VIRTUAL GATEWAYS

Aruba Virtual Gateways are deployed in public cloud infrastructure, such as an Amazon Web Services virtual private cloud (AWS VPC). They serve as a virtual instance of a headend gateway that enables seamless and secure connectivity for all branch and data center locations connecting to public clouds. With support for public Internet and private connections such as Direct Connect, virtual gateways provide application visibility, granular QoS and dynamic path steering.



Each virtual gateway supports up to 500 Mbps of throughput, with licenses that come in 1, 3, and 5 year options, with no additional software usage costs in AWS VPC.

The licenses also enable access to the Virtual Gateway Orchestration App in Aruba Central. The orchestration app completely automates VPC discovery, subnet management, gateway onboarding, high availability (HA) configuration and status monitoring.

EXTENDED FEATURES

Stateful Firewall

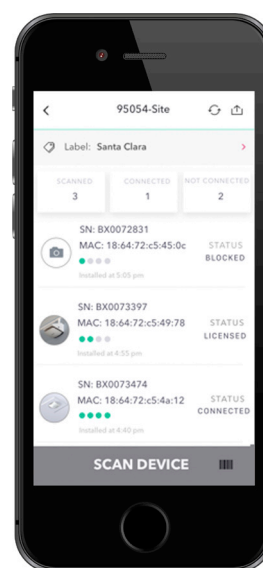
Enforce consistent user, device, and application policies across WLAN, LAN, and WAN. When deployed with Aruba ClearPass Policy Manager, policies can automatically be updated across all branch gateways to simplify configuration.

Dynamic Segmentation

All WAN, WLAN, and LAN traffic is tunneled to a branch gateway for inspection, thereby simplifying policy enforcement and improving consistency of user and IoT devices, even between multiple locations.

Zero-touch Provisioning

The hardware gateways can be factory-shipped and deployed onsite using Aruba Activate™, a cloud-based activation service along with Aruba Central. Settings can be applied based on configuration and other network-specific requirements.



White Glove Device Onboarding

Allows on-site personnel to use a mobile app to onboard gateways. A central IT team can verify device location, licensing and status – with no additional steps required. The mobile app is supported on standard iOS or Android devices.

Application Visibility and Control

AppRF™ with Deep Packet Inspection (DPI) technology continuously evaluates and optimizes performance for over 2,600 applications to ensure the highest possible Quality of Service (QoS) – even for encrypted or hidden traffic.

Policy-based Routing (PBR) and Dynamic Path Steering (DPS)

Traffic can be routed across multiple private or public WAN uplinks based on application health or type, user role, or destination. DPS will help choose the best available uplink based on characteristics like throughput, latency, jitter and packet loss.

Web Content Filtering

WebCC is an enhancement to AppRF™ that classifies websites by content category and their reputation rating. Similar to possible actions taken on IP addresses and applications, IT can easily block, apply QoS, bandwidth-limit, mirror, and log web content just like they can do with IP addresses and applications.

Unified Communications and Collaboration (UCC)

Visualize and troubleshoot networks based on call quality metrics such as MOS, latency, jitter and packet loss. Supported applications include: Skype for Business®, Wi-Fi Calling, Facetime, SIP, Jabber, Spark and more.

Third-party security gateway and firewall support

For advanced malware or antivirus protection, the 7000 Series can assume the role of an on-premises agent of centrally-hosted firewalls such as those provided by Palo Alto Networks and Check Point Software, or web security gateways such as Zscaler.

TECHNICAL SPECIFICATIONS*

BRANCH GATEWAYS

Features	7005	7008	7010	7024	7030
Deployment mode	Micro/Small	Small site	Medium site	Medium site	Large site
Maximum clients	Up to 1,024**	Up to 1,024**	2,048	2,048	4,096
Stateful Firewall throughput	2 Gbps	2 Gbps	4 Gbps	4 Gbps	8 Gbps
Encrypted throughput (3DES, AES-CBC)	1.2 Gbps	1.2 Gbps	2.6 Gbps	2.6 Gbps	2.6 Gbps
Active firewall sessions	16,384	16,384	32,768	32,768	65,536
Firewall sessions per second	63,000	63,000	64,000	64,000	65,000
WAN/LAN Interfaces	4	8	16	24	8 (combo)
PoE in/out	In; E0	Out; 100W	Out; 150W	Out; 400W	–
USB 2.0 (WAN)	Yes (1)	Yes (2)	Yes (2)	Yes (1)	Yes (1)
Form factor/footprint	Desktop/1RU	Desktop/1RU	1RU	1RU	1RU

HEADEND GATEWAYS

Features	7210	7220	7240/XM
Deployment mode	VPNC	VPNC	VPNC
Encrypted throughput (3DES, AES-CBC)	8 Gbps	21 Gbps	28 Gbps
WAN compression performance	10 Gbps	10 Gbps	10 Gbps
Maximum tunnels	1,024	4,096	6,144
Maximum IKE-learned routes	6,000	20,000	30,000
Form factor/footprint	1RU	1RU	1RU

VIRTUAL GATEWAYS

Features	Virtual
Deployment mode	VPNC in Amazon Web Services Virtual Private Cloud (AWS VPC)
Firewall throughput	500 Mbps
Number of interfaces	3 (plus 1 for management)
Maximum tunnels	2,000
Infrastructure	Additional VPC infrastructure costs based on a BYOL model

*For complete hardware specifications, please see the 7000 and 7200 Mobility Controller datasheets.

**The 7005/7008 offers a base capacity license for up to 75 clients.

SERVICE AND WARRANTY INFORMATION

- Hardware: 1-year parts/labor, can be extended with support contract
- Branch and Headend Gateway Subscriptions: 1, 3, 5, 7, or 10-year options which include software support
- Virtual Gateway Subscriptions: 1, 3, or 5-year options which include software support

ORDERING INFORMATION***

Item	Part Number	Description
7005, 7008, 7010, 7024, 7030	JZ118AAE	Aruba 70xx Gateway Foundation 1yr Subscription E-STU
7005, 7008, 7010, 7024, 7030	JZ119AAE	Aruba 70xx Gateway Foundation 3yr Subscription E-STU
7005, 7008, 7010, 7024, 7030	JZ120AAE	Aruba 70xx Gateway Foundation 5yr Subscription E-STU
7005, 7008, 7010, 7024, 7030	ROG52AAE	Aruba 70xx Gateway Foundation 7yr Subscription E-STU
7005, 7008, 7010, 7024, 7030	ROG53AAE	Aruba 70xx Gateway Foundation 10yr Subscription E-STU
7005, 7008	JZ124AAE	Aruba 700x Gateway Foundation Base Capacity 1yr Subscription E-STU
7005, 7008	JZ125AAE	Aruba 700x Gateway Foundation Base Capacity 3yr Subscription E-STU
7005, 7008	JZ126AAE	Aruba 700x Gateway Foundation Base Capacity 5yr Subscription E-STU
7005, 7008	ROG56AAE	Aruba 700x Gateway Foundation Base Capacity 7yr Subscription E-STU
7005, 7008	ROG57AAE	Aruba 700x Gateway Foundation Base Capacity 10yr Subscription E-STU
7210, 7220, 7240/XM	JZ195AAE	Aruba 72xx Gateway Foundation 1yr Subscription E-STU
7210, 7220, 7240/XM	JZ196AAE	Aruba 72xx Gateway Foundation 3yr Subscription E-STU
7210, 7220, 7240/XM	JZ197AAE	Aruba 72xx Gateway Foundation 5yr Subscription E-STU
7210, 7220, 7240/XM	ROG60AAE	Aruba 72xx Gateway Foundation 7yr Subscription E-STU
7210, 7220, 7240/XM	ROG61AAE	Aruba 72xx Gateway Foundation 10yr Subscription E-STU
Virtual Gateways	ROX97AAE	Aruba Virtual Gateway 500Mbps 1yr Sub E-STU
Virtual Gateways	ROX98AAE	Aruba Virtual Gateway 500Mbps 3yr Sub E-STU
Virtual Gateways	ROX99AAE	Aruba Virtual Gateway 500Mbps 5yr Sub E-STU

***For Hardware ordering information, please refer to the SD-WAN Ordering Guide

For additional information on ordering and full gateway hardware specifications, please refer to:

- SD-WAN Ordering Guide (and licenses) – https://www.arubanetworks.com/assets/og/OG_SD-WAN.pdf
- 7000 Series Mobility Controller Data sheet – https://www.arubanetworks.com/assets/ds/DS_7000Series.pdf
- 7200 Series Mobility Controller Data sheet – https://www.arubanetworks.com/assets/ds/DS_7200Series.pdf