

DATA SHEET

ARUBA SD-WAN

Improved visibility and control at the WAN edge

Software-defined WAN (SD-WAN) technology is the answer to growing bandwidth demands and tightening budget considerations. New solutions offer simplified WAN operations and reduced operational costs for those managing public and private WAN connections.

Full Layer 7 application awareness and in-branch visibility make Aruba's SD-WAN ideally suited for distributed enterprises where MPLS management and costs are no longer ideal. The Aruba solution is designed to support the growing shift toward cloud-based services, while optimizing routing decisions, and improving visibility across the WAN edge.

In fact, organizations in the retail, hospitality and healthcare space - which typically operate lean, centralized network teams can improve the time to deploy, manage and maintain WAN connections, while enhancing the user experience and business operations.

INTELLIGENT WAN MANAGEMENT

Through simplified workflows, managing a WAN can be completely orchestrated to improve the speed of deployment, network performance, and ongoing configuration changes. Aruba Central, which is a next generation cloud-based management solution provides SD-WAN, as well as WLAN and LAN visibility and controls. Cloud advantages make it easy to configure and deploy and see data from Aruba branch gateways, headend gateways, and virtual gateways from anywhere. Without any on-premises management equipment to update or maintain.

BRANCH GATEWAYS

Aruba's SD-WAN gateways are designed to support multiple WAN connections that can be either broadband, MPLS or cellular links. Software features include the ability to route and prioritize traffic being sent to the data center, public cloud infrastructure or the Internet. Each also supports High Availability (HA) requirements (e.g. active/active and active/standby) making it ideal for sites that need full redundancy.



KEY FEATURES

- On-premises and cloud based gateway options
- Policy-based routing for 3,000+ applications with no additional hardware
- Up to 6 Gbps firewall throughput for each branch gateway
- Cloud-based SD-WAN management provides greater flexibility
- Centralized policy enforcement for WAN, WLAN, and LAN
- Security integration with cloud and on-premises solutions

HEADEND GATEWAY

Aruba SD-WAN gateways deployed in headend/data center environments act as VPN concentrators (VPNCs) to terminate traffic from branch gateways. These gateways offer support for up to thousands of branch sites. In a typical dual hub-and-spoke model, one or more headend gateways can be used to terminate IPsec tunnels established from branch gateways.

VIRTUAL GATEWAYS

Aruba virtual gateways are deployed in public cloud infrastructure, such as a Microsoft [Azure Virtual Network \(VNET\)](#) or Amazon Web Services [virtual private cloud \(AWS VPC\)](#). These gateways serve as a virtual instance of a headend gateway, and enable seamless and secure connectivity for all branch and data center locations connecting to public clouds. Virtual gateways support public Internet and private connections such as Direct Connect.



Virtual gateways are managed by Aruba Central and include full orchestration that completely automates VNET/VPC discovery, subnet management, gateway onboarding, HA configuration and status monitoring.

Each virtual gateway supports up to 500 Mbps of throughput, with 1, 3, and 5 year subscription options.

MICROSOFT FEATURES

Office 365, Teams and Skype for Business

Aruba's [integration with Microsoft](#) enable unique application insight that detects Office 365, Teams and Skype for Business traffic and then prioritizes them over less critical applications. Aruba Central also includes specific call quality heuristics for additional visibility.

Microsoft Preferred Solution

Aruba Virtual Gateways are a [Microsoft preferred solution](#) on the Azure Marketplace. This means the gateway application has been validated by Microsoft experts as having proven competencies and capabilities that meet customer needs.

EXTENDED FEATURES

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.

User and application firewall

Included within the Foundation license, wired and wireless traffic can be tunneled to a branch gateway through GRE tunnels for inspection. Policies are then enforced based on user role, device type, application and location – further explained by the following Dynamic Segmentation feature.

Dynamic Segmentation

To simplify and better secure wired and wireless network access, the branch gateway can automatically enforce per-user and device roles on wired and wireless networks via integration with ClearPass Policy Manager. This ensures consistent policy regardless of user role and device type, and eliminates the need to configure unnecessary SSIDs, ACLs, VLANs and subnets at every node in the network. For more information on Dynamic Segmentation, please refer <https://www.arubanetworks.com/solutions/dynamic-segmentation/>

Application visibility and control

Also included in the Foundation license, application visibility with Deep Packet Inspection (DPI) technology evaluates and optimizes performance and Quality of Service policies for over 3,000 applications - even for encrypted or hidden traffic.

Web content filtering

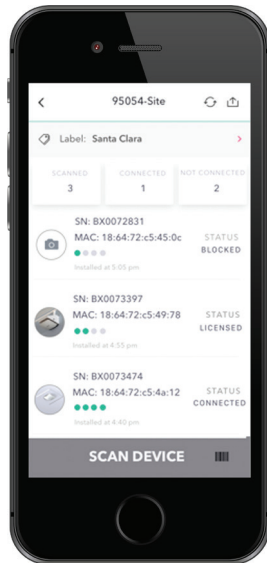
WebCC, part of the Foundation license, classifies websites by content category and rates them by reputation. It can also block, apply QoS, bandwidth-limit, mirror, and log web content.

Unified Communications and Collaboration (UCC) Dashboard

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

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.

Third-party security gateway and firewall support

For advanced malware or antivirus protection, the 7000 Series gateways 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	7010	7024	7030	7210	7220	7240/XM
Deployment mode	VPNC	VPNC	VPNC	VPNC	VPNC	VPNC
Encrypted throughput (3DES, AES-CBC)	2.6 Gbps	2.6 Gbps	2.6 Gbps	8 Gbps	21 Gbps	28 Gbps
WAN compression performance	2.5 Gbps	2.5 Gbps	2.5 Gbps	10 Gbps	10 Gbps	10 Gbps
Maximum tunnels	512	512	512	1,024	4,096	6,144
Maximum IKE-learned routes	3,000	3,000	6,000	6,000	20,000	30,000
Form factor/footprint	1RU	1RU	1RU	1RU	1RU	1RU

VIRTUAL GATEWAYS	
Features	Virtual
Deployment mode	VPNC in Microsoft Azure Virtual Network (VNET) or 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 hardware-only 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