QuickSpecs

Overview

Aruba Mobility Controller Virtual Appliances

Aruba Mobility Controller Virtual Appliances (VA) improve WLAN performance by centralizing all control functionality for individual Aruba access points (APs) to improve AP utilization and client roaming. They also improve security by ensuring all traffic is encapsulated in GRE tunnels for complete encryption from AP to Controller.

Managed by the Aruba Mobility Conductor, VAs are ideally suited for campus and branch environments with existing or growing virtualization infrastructure. Running the same ArubaOS network operating system as a 7000 Series or 7200 Series Mobility Controller, the VA can enforce centrally-managed policies to ensure a consistent employee and guest experience. It can also be deployed with zero-touch provisioning to simplify deployment.

The VA manages up to 16,000 concurrent users and 1,000 access points, and can be installed on VMware ESXi, Microsoft Hyper-V and open-source KVM instances. As campus and branch requirements change, additional VAs, memory and compute resources can be added.

Key Features
- Support for new 802.11ax (Wi-Fi 6), WPA3, and Enhanced Open – and existing standards
- Patented ClientMatch technology can now group together 802.11ax-capable devices
- Application awareness for 2,600+ applications with no additional hardware
- Built in AI-powered Wireless/RF optimization
- Unifies policy enforcement for WLAN, LAN, and WAN traffic

24/7 Mission-Critical Networking
ArubaOS includes unique, and patented AI-powered machine learning Adaptive Radio Management features, such as AirMatch and ClientMatch (now enhanced with IEEE 802.11ax grouping) for automatic RF optimization. These features improve the network's performance based on changing environmental conditions, noisy or congested RF and resolve sticky client issues during user roaming. RFProtect provides advanced spectrum analysis and wireless intrusion protection (WIPS/WIDS) to help identify and mitigate Wi-Fi and non-Wi-Fi sources of interference to contain potential security risks. Learn more about Aruba's software features on the ArubaOS datasheet.

As part of a controller cluster managed by the Mobility Conductor, the controller VA helps enhance scale, improve reliability using enhanced high availability (HA), adopt configurations seamlessly based on hierarchy, enable Live Upgrades to reduce maintenance windows, and share licenses from a global licensing pool. For network management, Aruba AirWave provides real-time monitoring, reporting, and Wi-Fi location services.

Enhanced Capabilities
IEEE 802.11ax (Wi-Fi 6) enhanced with ClientMatch
The latest Wi-Fi standard brings enhanced performance, speed, and efficiency with key features such as OFDMA, 1024-QAM, and bidirectional MU-MIMO. Combined with Aruba's patented ClientMatch technology, 802.11ax clients will now be grouped together to optimize the multi-user experience.

Stronger Wireless Security
Support for WPA3 brings improved encryption and authentication methods, while Enhanced Open delivers automatic encryption to open networks. New WPA2-MPSK feature enables simpler passkey management for WPA2 devices – should the Wi-Fi password on one device need to be changed, no additional key changes are needed for other devices on the network.

Built in Stateful Firewall
Consistent user, device, and application enforcement across WLAN, LAN, and WAN. When deployed alongside Aruba ClearPass Policy Manager, policies can automatically be updated to simplify configuration.

Hewlett Packard Enterprise

Overview

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.

Web Content Filtering

WebCC is an add-on feature of AppRF™ that classifies websites by content category and by their reputation rating. Block, apply QoS, limit bandwidth, mirror, and log web URL content just like what AppRF does for IP addresses and applications.

Unified Communications and Collaboration (UCC)

See real-time data 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.

Configuration Information

Ordering Information

Description	Part Number
Aruba MC-VA-50 Virtual Mobility Controller License (RW) with Support for up to 50 AP E-LTU	JY899AAE
Aruba MC-VA-250 Virtual Mobility Controller License (RW) with Support for up to 250 AP E-LTU	JY900AAE
Aruba MC-VA-1K Virtual Mobility Controller License (RW) with Support for up to 1000 AP E-LTU	JY901AAE
Aruba MC-VA-50 Virtual Mobility Controller License (US) with Support for up to 50 AP E-LTU	JY902AAE
Aruba MC-VA-250 Virtual Mobility Controller License (US) with Support for up to 250 AP E-LTU	JY903AAE
Aruba MC-VA-1K Virtual Mobility Controller License (US) with Support for up to 1000 AP E-LTU	JY904AAE
Aruba MC-VA-50 Virtual Mobility Controller License (IL) with Support for up to 50 AP E-LTU	JY905AAE
Aruba MC-VA-250 Virtual Mobility Controller License (IL) with Support for up to 250 AP E-LTU	JY906AAE
Aruba MC-VA-1K Virtual Mobility Controller License (IL) with Support for up to 1000 AP E-LTU	JY907AAE
Aruba MC-VA-50 Virtual Mobility Controller License (JP) with Support for up to 50 AP E-LTU	JY908AAE
Aruba MC-VA-250 Virtual Mobility Controller License (JP) with Support for up to 250 AP E-LTU	JY909AAE
Aruba MC-VA-1K Virtual Mobility Controller License (JP) with Support for up to 1000 AP E-LTU	JY910AAE
Aruba MC-VA-50 Virtual Mobility Controller License (EG) with Support for up to 50 AP E-LTU	JY911AAE
Aruba MC-VA-250 Virtual Mobility Controller License (EG) with Support for up to 250 AP E-LTU	JY912AAE
Aruba MC-VA-1K Virtual Mobility Controller License (EG) with Support for up to 1000 APE-LTU	JY913AAE
Aruba MC-VA-50 Virtual Mobility Controller License (EGF1) with Support for up to 50 AP E-LTU	JZ380AAE
Aruba MC-VA-250 Virtual Mobility Controller License (EGF1) with Support for up to 250 AP E-LTU	JZ381AAE
Aruba MC-VA-1K Virtual Mobility Controller License (EGF1) with Support for up to 1000 AP E-LTU	JZ382AAE
Aruba MC-VA-50 Virtual Mobility Controller License (ILF1) with Support for up to 50 AP E-LTU	JZ383AAE
Aruba MC-VA-250 Virtual Mobility Controller License (ILF1) with Support for up to 250 AP E-LTU	JZ384AAE
Aruba MC-VA-1K Virtual Mobility Controller License (ILF1) with Support for up to 1000 AP E-LTU	JZ385AAE
Aruba MC-VA-50 Virtual Mobility Controller License (JPF1) with Support for up to 50 AP E-LTU	JZ386AAE
Aruba MC-VA-250 Virtual Mobility Controller License (JPF1) with Support for up to 250 AP E-LTU	JZ387AAE
Aruba MC-VA-1K Virtual Mobility Controller License (JPF1) with Support for up to 1000 AP E-LTU	JZ388AAE
Aruba MC-VA-50 Virtual Mobility Controller License (RWF1) with Support for up to 50 AP E-LTU	JZ389AAE
Aruba MC-VA-250 Virtual Mobility Controller License (RWF1) with Support for up to 250 AP E-LTU	JZ390AAE
Aruba MC-VA-1K Virtual Mobility Controller License (RWF1) with Support for up to 1000 AP E-LTU	JZ391AAE
Aruba MC-VA-50 Virtual Mobility Controller License (USF1) with Support for up to 50 AP E-LTU	JZ392AAE
Aruba MC-VA-250 Virtual Mobility Controller License (USF1) with Support for up to 250 AP E-LTU	JZ393AAE
Aruba MC-VA-1K Virtual Mobility Controller License (USF1) with Support for up to 1000 AP E-LTU	JZ394AAE
Aruba MC-VA-10 Virtual Mobility Controller License (EGF1) FIPS/TAA with Support for upto 10 AP E-LTU	Q9B55AAE
Aruba MC-VA-10 Virtual Mobility Controller License (ILF1) FIPS/TAA with Support for upto 10 AP E-LTU	Q9B56AAE
Aruba MC-VA-10 Virtual Mobility Controller License (JPF1) FIPS/TAA with Support for upto 10 AP E-LTU	Q9B57AAE
Aruba MC-VA-10 Virtual Mobility Controller License (RWF1) FIPS/TAA with Support for upto 10 AP E-LTU	Q9B58AAE
Aruba MC-VA-10 Virtual Mobility Controller License (USF1) FIPS/TAA with Support for upto 10 AP E-LTU	Q9B59AAE
Aruba MC-VA-10 Virtual Mobility Controller License (EG) with Support for up to 10 AP E-LTU	Q9B91AAE
Aruba MC-VA-10 Virtual Mobility Controller License (IL) with Support for up to 10 AP E-LTU	Q9B92AAE
Aruba MC-VA-10 Virtual Mobility Controller License (JP) with Support for up to 10 AP E-LTU	Q9B93AAE
Aruba MC-VA-10 Virtual Mobility Controller License (RW) with Support for up to 10 AP E-LTU	Q9B94AAE
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Aruba MC-VA-10 Virtual Mobility Controller License (RW) with Support for up to 10 AP E-LTU	Q9B94AAE
Aruba MC-VA-10 Virtual Mobility Controller License (US) with Support for up to 10 AP E-LTU	Q9B95AAE

For additional information on Aruba WLAN products, please refer to:
- ArubaOS Data Sheet (and licenses) - **https://www.arubanetworks.com/assets/ds/DS_AOS.pdf**
- Mobility Conductor Product Page **–**
  https://www.arubanetworks.com/products/networking/controllers/mobility-master/
- Access Points Product Page - **https://www.arubanetworks.com/products/networking/access-points/**

Technical Specifications

Mobility controller virtual appliance

Model	MC-VA-10	MC-VA-50	MC-VA-250	MC-VA-1K
Maximum AP count	10	50	250	1,000
Maximum client count	256	800	4,000	16,000

Notes:

— The Mobility Controller VA can be scaled by installing multiple instances of MC-VA-1K.

      ○   4x instances of MC-VA-1K install can scale up to 4,000 APs and 64,000 clients

      ○   6x instances of MC-VA-1K install can scale up to 6,000 APs and 96,000 clients

Check product documentation for the required VM resources to support these scales

Service and warranty information

●   Software: 90 days, can be extended with support contract

Summary of Changes

Date	Version History	Action	Description of Change
18-Jan-2021	Version 7	Changed	Overview and Configuration Information sections were updated.
03-Dec-2018	Version 6	Changed	Document name changed to Aruba Mobility Controller Virtual Appliances. Complete document revised (software feature update)
02-Apr-2018	Version 5	Added	SKUs added: Q9B55AAE, Q9B56AAE, Q9B57AAE, Q9B58AAE, Q9B59AAE, Q9B91AAE, Q9B92AAE, Q9B93AAE, Q9B94AAE, Q9B95AAE, Q9B55AAE, Q9B56AAE, Q9B57AAE, Q9B58AAE, Q9B59AAE, Q9B91AAE, Q9B92AAE, Q9B93AAE, Q9B94AAE, Q9B95AAE
04-Dec-2017	Version 4	Added	SKUs added: JZ380AAE, JZ381AAE, JZ382AAE, JZ383AAE, JZ384AAE, JZ385AAE, JZ386AAE, JZ387AAE, JZ388AAE, JZ389AAE, JZ390AAE, JZ391AAE, JZ392AAE, JZ393AAE, JZ394AAE
		Changed	Document name updated to Aruba Virtual Mobility Controller
07-Aug-2017	Version 3	Changed	Header properties updated
20-Jun-2017	Version 2	Changed	Document title and Overview updated
07-Nov-2016	Version 1	Created	Document creation.

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