

Overview

HPE Aruba Networking Management Software

On-premises IT operations management for multi-vendor campus networks

HPE Aruba Networking Management Software (AirWave) is a scalable, full featured management solution for multi-vendor wired and wireless networks. Organizations gain the visibility, control and troubleshooting tools required to fully manage today's distributed enterprise environments.

AirWave integrates configuration and deployment and real-time visibility and control for comprehensive management and troubleshooting. This provides a flexible platform for maintaining the reliability and performance of HPE Aruba Networking access points, controllers, switches, and selected multi-vendor devices.

Standard Features

Streamlined Configuration And Deployment

AirWave utilizes configuration groups, assigned templates, and step by step workflows to simplify device configuration. Entire config files can be imported, compared, assigned and archived. Modifying and using smaller segments of configuration files across groups of devices is also supported.

These capabilities allow IT to quickly add, modify and deploy devices across distributed locations, while saving time and minimizing mistakes. HPE Aruba Networking's Zero-Touch Provisioning (ZTP) can be used to automatically push configuration files to devices to further simplify the deployment process. Integrated auditing is also provided for security and change management..

Real-Time Visibility And Control

AirWave provides detailed health and analytics dashboards to monitor critical applications and services, including:

- Network Health – used to view client usage, monitoring and configuration compliance, alert summaries and other selected statistics.
- Traffic Analysis – helps to monitor application usage and policy enforcement across the entire network. Tracks web categories, client destinations and relative trust levels. Details are displayed by network, roles, device type and users.
- UCC Analytics – a consolidated view of how VoIP applications are performing displays MOS scores, and potential RF performance and capacity issues.

For detailed device visibility, simply click a chart or graph to drill-down from any network level view, or locate and select a device for a configuration summary and details on connected clients, neighbors, alerts and related events.

When looking at switch information, additional visibility into key values of individual and stacked switches is provided. This includes port status, PoE consumption, VLAN assignment, device and neighbor connections, power status and trends, alerts and events and which troubleshooting actions can be performed.

Comprehensive Management And Troubleshooting

Role-Based Access, Discovery and Topology

AirWave utilizes a role-based model for administrative access. Multiple combinations of access and management rights can be assigned as needed. AirWave allows IT to protect the environment and provides the ability to tailor administrative access based on assigned scope and responsibilities.

AirWave also discovers and maps devices across the entire environment, including those with distributed locations. The resulting topology map shows upstream relationships between APs, controllers and switches in order to assess the impact on related devices and clients, and to isolate root cause of issues..

Stage-based Connectivity Health

A reliable connection is the foundation of a successful user experience. AirWave monitors the connectivity of clients, to proactively help identify and resolve issues. Data points include client association, as well as network authentication and DHCP metrics.

VisualRF for Wi-Fi Visibility & Management

Real-time views of actual floorplan maps make it easy to see RF coverage issues, location of all access points, and possible interference points. The result is a comprehensive view of how the network is performing, and potential trouble spots.

Selectable overlays show client health, traffic thresholds, UCC performance and channel utilization to quickly diagnose client, building, floor or location specific issues.

VisualRF also provides the ability to capture and playback physical movement of devices and clients within locations to isolate and troubleshoot those challenging intermittent mobility issues..



Standard Features

RAPIDS for Intrusion Detection

AirWave utilizes HPE Aruba Networking's Rogue AP Intrusion Detection Service (RAPIDS), to identify and resolve issues caused by rogue access points, and clients.

Wired and wireless data is correlated to identify relevant threats, while reducing false positives to strengthen network security. RAPIDS includes:

- Summary data – percentage of device classification and acknowledgments, and device counts by type.
 - Lists and events – concise summaries of devices by type and events by severity, category and scope.
 - Rules engine - easily define and edit wireless, wired, and controller properties to detect rogues, classifications and threat levels.
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Firmware Upgrade and Compliance

An advanced image upgrade and compliance module makes it easy to update firmware by device type or version group, split download images, and schedule updates during off hours to minimize the impact during peak operations.

Flexible Platform And Deployment Options

HPE Aruba Networking Management Software (AirWave) is available on either pre-configured hardware appliances or deployed in virtual machines (VMs).

AirWave hardware appliances are designed and tested to meet the demanding requirements of distributed networks. The AirWave Pro appliance is optimized to support up to 1,500 managed devices, and the AirWave Enterprise and Central Ready appliances support up to 4,000 managed devices.

The AirWave Central Ready appliance is also designed for investment protection. Providing the enhanced performance, storage, and interface requirements to support either AirWave or the planned HPE Aruba Networking Central on-premises deployment option.

AirWave virtual deployments are supported on VMware and Microsoft Hyper-V host hypervisors.

Government-Grade Certifications

AirWave is highly secure, and has achieved the Federal Information Processing Standard (FIPS) Publication 140-2 validation, a government level computer security standard for cryptographic modules (Certificate #2577). See [detailed security documentation](#) for more information.



Configuration Information

Build To Order: BTO is a standalone unit with no integration. BTO products ship standalone are not part of a CTO or Rack-Shippable solution.

BTO Models

Rule #	Description	SKU
1,2	HPE Aruba Networking Central Ready 512GB AirWave Appliance	R1Q04B
1,2	HPE Aruba Networking AirWave Pro Gen 10 1500 Clients Hardware Appliance	R3W19A

Configuration Rules

- 1 Bring in (Min 1 // Max 1) Localized power cord based on the HPE Aruba Networking Localization Menu
- 2 If JW124A is the selected localized power cord, do not add Localized Power Cord

Notes: OCA Only Model Selection Form -
[HPE Offering > HPE Aruba Networking > Network Management - AirWave: HPE Aruba Networking Management Software \(AirWave\)](#)

Power Options

Rule #	Description	SKU
	Std (Min 0 // max 99) User Selection (min 0 // max 99)	
1,3	HPE Aruba Networking DL360 Gen10 500W Spare PSU	R1T38A
Configuration Rules		
1	Bring in (Min 1 // Max 1) Localized power cord based on the HPE Aruba Networking Localization Menu	
2	This PSU is supported on: X918A, and JX919A	
3	This PSU is supported on: R1Q04B and R3W19A	

Licenses

Remarks	Description	SKU
AirWave License		
	Std (Min 0 // max 99) User Selection (min 0 // max 99)	
	HPE Aruba Networking Airwave with RAPIDS and VisualRF 1 Device License E-LTU	JW546AAE
Failover License		
	Std (Min 0 // max 99) User Selection (min 0 // max 99)	
	HPE Aruba Networking AW-100-FR AirWave 100 Device Failover License E-LTU	JW560AAE
	HPE Aruba Networking AW-1000-FR 1000 AirWave Device Failover License E-LTU	JW563AAE
	HPE Aruba Networking AW-200-FR AirWave 200 Device Failover License E-LTU	JW561AAE
	HPE Aruba Networking AW-25-FR AirWave 25 Device Failover License E-LTU	JW558AAE
	HPE Aruba Networking AW-2500-FR 2500 AirWave Device Failover License E-LTU	JW564AAE
	HPE Aruba Networking AW-50-FR AirWave 50 Device Failover License E-LTU	JW559AAE
	HPE Aruba Networking AW-500-FR AirWave 500 Device Failover License E-LTU	JW562AAE
	HPE Aruba Networking AW-EXF1-2500 AirWave 2500 Volume Failover Expansion License E-LTU	JW566AAE
	HPE Aruba Networking AW-EXF1-50 AirWave 50 Device Failover Expansion License E-LTU	JW565AAE
K12 Network Management License		
	Std (Min 0 // max 99) User Selection (min 0 // max 99)	



Technical Specifications

Pro Appliance (JX918A)	
Appliance Specifications	
CPU	8-core 2.6 Ghz HPE DL360 Gen9 E5-2640v3
Memory	48GB
Storage	6 300GB 12G SAS 15K 2.5in SC ENT HDD
Appliance Scalability	
Maximum Managed Devices	1,500
Power	
Power	500W FS Plat Hot Plug Power Supply
Power Supply	Optional redundant power supply
AC Input Voltage	110/220 VAC Auto-Selecting
AC Input Frequency	50/60 Hz Auto-Selecting
Physical	
Rackmount	1U SFF Easy Install Rail 1U Cable Management Arm
Dimensions	1.7 x 17.1 x 27.5 in
(H x W x D)	(4.32 x 43.47 x 69.85 cm)
Weight	33.3 lb. (15.31 kg) max
HP SmartDrives	8 + 2 SFF/4 LFF max, HDD/SSD
Networking	4 x 1GbE embedded + FlexibleLOM slot
VGA/serial/USB ports	Front VGA opt, rear VGA standard, and serial opt., 5 USB 3.0
Industry compliance	ASHRAE A3 and A4, lower idle power
Warranty	
Hardware	1 year parts
Software	90 days

Pro Appliance (Gen10) (R3W19A)	
Appliance Specifications	
CPU	8-core Intel Xeon-S 4110 @ 2.10 Ghz - HPE DL360 Gen10
Memory	48GB
Storage	6 300GB SAS 15K SFF SC DS HDD
Appliance Scalability	
Maximum Managed Devices	1,500
Power	
Power	500W FS Plat Hot Plug Power Supply
Power Supply	Optional redundant power supply
AC Input Voltage	110/220 VAC Auto-Selecting
AC Input Frequency	50/60 Hz Auto-Selecting
Physical	
Rackmount	1U SFF Easy Install Rail 1U Cable Management Arm
Dimensions	1.7 x 17.1 x 27.5 in
(H x W x D)	(4.32 x 43.47 x 69.85 cm)
Weight	33.3 lb. (15.31 kg) max
HP SmartDrives	8 + 2 SFF/4 LFF max, HDD/SSD



Technical Specifications

Networking	4 x 1GbE embedded + Flexible LOM slot or HPE FlexFabric 10Gb 4-Port 536FLR-T Adapter
VGA/serial/USB ports	Front VGA opt, rear VGA standard, and serial opt., 5 USB 3.0
Industry compliance	ASHRAE A3 and A4, lower idle power
Warranty	
Hardware	1 year parts
Software	90 days

HPE Aruba Networking Central Ready AirWave 8 Appliance (R1Q04A)

Appliance Specifications

CPU	2 20-core Intel Xeon-G 6138 @ 2.0 GHz - HPE DL360 Gen10
Memory	512GB
Storage	4 1TB SSD HDD (2 TB in RAID 10 configuration)

Appliance Scalability

Maximum Managed Devices	4,000
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Power

Power	500W FS Plat Hot Plug Power Supply
Power Supply	Optional redundant power supply
AC Input Voltage	110/220 VAC Auto-Selecting
AC Input Frequency	50/60 Hz Auto-Selecting

Physical

Rackmount	1U SFF Easy Install Rail 1U Cable Management Arm
Dimensions (H x W x D)	1.7 x 17.1 x 27.8 in (4.29 x 43.46 x 70.7 cm)
Weight	35.9 lb. (16.27 kg) max
HP SmartDrives	4 LFF SAS/SATA/SSD 8 or 10 SFF SAS/SATA/SSD
Networking	4 x 1GbE embedded + FlexibleLOM slot
VGA/serial/USB ports	Front VGA opt, rear VGA standard, and serial opt., 5 USB 3.0
Industry compliance	ASHRAE A3 and A4, lower idle power

Warranty

Hardware	1 year parts
Software	90 days



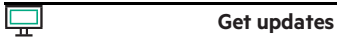
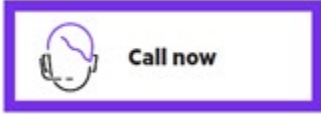
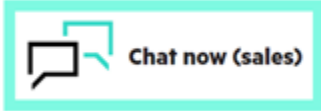
Summary of Changes

Date	Version History	Action	Description of Change
16-Dec-2024	Version 9	Changed	Overview, Standard Features and Configuration Information sections were updated.
05-Feb-2024	Version 8	Changed	Series name was updated.
02-Aug-2021	Version 7	Changed	Configuration Information and Technical Specifications sections were updated.
01-Feb-2021	Version 6	Changed	Configuration Information section was updated.
06-Apr-2020	Version 5	Changed	Configuration Information, section was updated.
02-Dec-2019	Version 4	Changed	Standard Features and Technical Specifications sections were updated.
02-Apr-2019	Version 3	Changed	Configuration Information, Standard Features and Technical Specifications sections were updated.
03-Apr-2017	Version 2	Changed	SKUs added: JZ075A, JZ076AAE
01-Nov-2016	Version 1	New	New QuickSpecs



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To learn more, visit <http://www.hpe.com/networking>

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