ARUBA CENTRAL ON-PREMISES

Aruba Central On-Premises is a powerful network management system designed to simplify the deployment and maintenance of wireless and wired networks at scale. By unifying network operations under a single pane of glass, Aruba Central On-Premises delivers a cloud-like management experience for organizations that need to improve IT agility and efficiency while also satisfying regulatory or compliance requirements.

The solution is comprised of two primary components:

1. Physical server-based appliances that run in a customer's data center environment.

2. Software subscriptions that enable management features for supported Aruba devices.

SUPPORTED SERVER APPLIANCES

The server appliances are designed and tested to run Aruba Central On-Premises software, ensuring it runs free from hardware compatibility problems or insufficient performance. Server appliances that are compatible with Aruba Central On-Premises are available in two options:

1. A Central-ready appliance (R1Q04A) ships with AirWave software for existing customers who are planning to migrate to Aruba Central On-Premises in the future. Whenever the customer is ready to migrate, they can wipe the AirWave software and use the same appliance to run Aruba Central On-Premises by installing the appropriate software image, providing better investment protection.

2. Dedicated server appliances for customers who are ready to deploy Aruba Central On-Premises are also available (R1Q05A).

KEY FEATURES

- Unified management for Aruba wireless access points and switches at campuses and branches
- Zero touch provisioning to simplify device onboarding and configuration
- Network-wide health monitoring (view at global, site, and client levels)
- Application-level visibility to assure user experience and SLA targets
- Reporting wizard to generate scheduled or on-demand assessments
- Tight policy and compliance controls to ensure network security
- APIs and webhooks for extensibility with other leading IT platforms

Table 1: Server Appliance Specifications

Category	Aruba Central Appliance (R1Q05B)	Aruba Central Ready AirWave 8 Appliance (R1Q04B)
System Specifications		
Server Type	HPE DL360 Gen10	
CPU	2, 20-Core Intel Xeon-Gold 6138, 3.6 GHz	
Memory	512GB	
Storage	2 2TB SSD or SAS HDD (4TB in RAID 0 configuration)	4 1TB SSD HDD (2 TB in RAID 10 configuration)
Scalability		
Managed Devices	Up to 25,000 with a 7-node cluster	
Power		
Power	500 W Flexible Slot (FS) platinum hot-plug power supply	
Power Supply	Optional redundant power supply	
AC Input Voltage	110/220 V ac 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)	4.29 x 43.46 x 70.7 cm (1.7 x 17.1 x 27.8 in)	
Weight	16.27 kg (35.9 lb), Maximum	
HPE SmartDrives	4 LFF SAS/SATA/SSD 8 or 10 SFF SAS/SATA/SSD	
Networking	4 x 1 GbE embedded + FlexibleLOM slot	
VGA/Serial/USB ports	Front VGA (Optional), rear VGA standard and serial (Optional), 5 USB 3.0	
Industry Compliance	ASHRAE A3 and A4, Lower idle power	
Warranty		
Hardware	1 year parts	
Software	90 days	
Notes		
Power Consumption	• For 0% load (which can be considered as idle state): 72W • 50% load: 232 W • 100% load: 397 W Heat dissipation can be calculated based on the following formula: • Power consumption x 3.413 = BTU/hr • 100% load: 1352,79 BTU/hr • 50% load: 791,81 BTU/hr • 0% load: 245,74 BTU/hr	

To address needs for enterprise scale and resiliency, deployment options include three-, five-, and seven-node server clusters. A single cluster of dedicated server appliances provides built-in redundancy – if an appliance goes offline, the cluster continues to monitor network devices without any service interruption.

For smaller networks that consist of 2,000 devices or fewer, a one-node server deployment is also available that enables all primary network management capabilities.

Five- or seven-node clusters are required for more advanced management features, such as AI Insights for wireless connectivity.

Table 2: Server Deployment Options

No. of Appliances	Devices Supported	Platform Features Supported
1	1,000	Network Operations
3	8,000	Network Operations, Redundancy, API Integration
5	16,000	Network Operations, Redundancy, API Integration, AI Connectivity
7	25,000	Network Operations, Redundancy, API Integration, AI Connectivity

- Network Operations: Primary network management features such as device onboarding, configuration, monitoring, and troubleshooting.
- Redundancy: Refers to the continuity of management operations if one server node goes offline or becomes unreachable.
- API Integration: The ability to dynamically pull in or share telemetry with third-party IT systems to help enable programmability and automation frameworks.
- AI Connectivity: Use of artificial intelligence and machine learning (AI/ML) to automatically detect and isolate the cause of Wi-Fi connectivity issues.

Note: The number of supported devices varies when managing a mixture of access points and switches. For more details, please refer to the online help documentation.

DEVICE SOFTWARE SUBSCRIPTIONS

Aruba Central On-Premises software subscriptions are required to enable all the primary management capabilities for Aruba wireless access points, mobility controllers, and switches. See table 3 for a list of supported devices and operating systems.

Separate subscriptions are required for every network device that customers wish to manage with Aruba Central On-Premises, and are available in 1-, 3-, 5-, 7-, and 10-year terms for consumption and budgetary flexibility.

Each device subscription includes embedded software support that provides access to software updates, 24x7 troubleshooting and deployment assistance, and more. By embedding software support into the device subscription, customers will have instant access to new software features once they install the latest firmware update.

The purchase of a separate, perpetual software license is required to configure and monitor APs from Aruba mobility controllers on a per-device basis. Optional add-ons include Policy Enforcement Firewall (PEF) and RFprotect (RFP) capabilities. **Subscriptions for Aruba Central On-Premises only cover the software support portion of AP/PEF/RFP/Mobility Conductor/Controller licenses.**

For Aruba switches, please note that a separate device subscription is required for every switch that is managed in a stack.

Aruba Central On-Premises device subscriptions do not include hardware support. Hardware support for server appliances and all managed network devices require a Foundation Care for Aruba contract. To view Aruba Central hardware-only support options, please refer to the Support Services Central SKU lookup tool.

SUBSCRIPTIONS INCLUDE:

Aruba Central On-Premises Platform Software & Support

Switch Software Support

Controller/MC Software Support

AP/PEF/RFP Software Support

Complete device software lifecycle coverage

SUBSCRIPTIONS DON'T INCLUDE:

Aruba Central On-Premises Server Appliances

Device Hardware (Switches, APs, and Controllers)

AP/PEF/RFP Perpetual License

Hardware-only Support for Server Appliances and Managed Devices

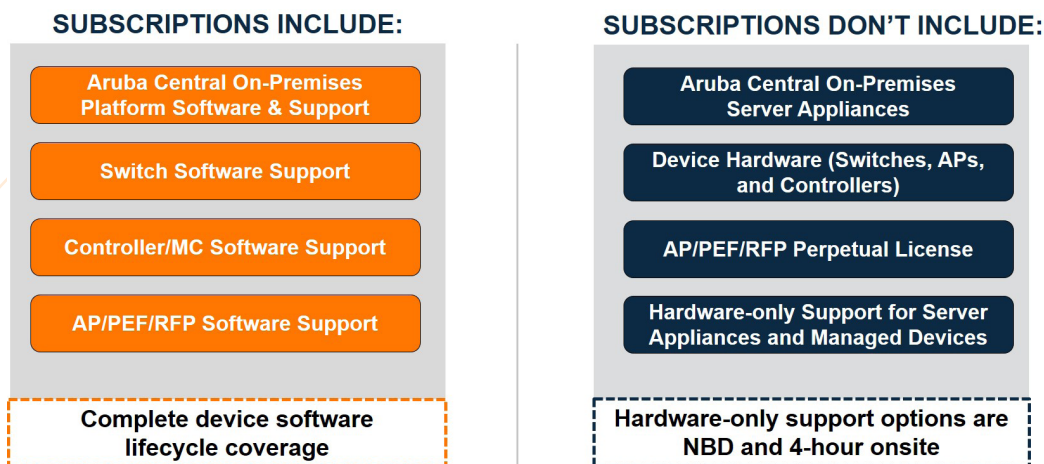**Hardware-only support options are NBD and 4-hour onsite**

Figure 1. Summary of Aruba Central On-Premises Subscription Components

Table 3: Supported Network Devices for Aruba Central On-Premises

Device Type	Operating System	Key Features	Min. # of Appliances
Controller-based Access Points	AOS 6.x, AOS 8.x **(Monitoring Only)**	• Monitoring Data Storage: 90 days • VisualRF, Topology • Alerts and Events, Reporting, Troubleshooting • Client Diagnostics • Wireless Features: Application visibility (AppRF), WebCC	1
		• RAPIDS, UCC • Streaming API, Northbound API	3
		• Wi-Fi Connectivity Dashboard • AI Insights – Connectivity	5
Wireless Controllers	AOS 6.x, AOS 8.x WLAN Controllers **(Monitoring Only)**	• Monitoring, Reporting, Troubleshooting	1
		• Streaming API, Northbound API	3
		• Wi-Fi Connectivity Dashboard • AI Insights – Connectivity	5
Instant APs	InstantOS 6.x, Instant OS 8.x **(Configuration and Monitoring)**	• Monitoring Data Storage: 90 days • VisualRF, Topology • Alerts and Events, Reporting, Troubleshooting • Client Diagnostics • Wireless Features: Application visibility (AppRF), ClientMatch, WebCC • Security: Basic Policy, 802.1x, Mac Auth, Onboard, Basic Visibility, Passpoint	1
		• RAPIDS, UCC • Streaming API, Northbound API	3
		• Wi-Fi Connectivity Dashboard • AI Insights – Connectivity	5
Switches	AOS-S and AOS-CX **(Configuration and Monitoring)**	• Configuration, Monitoring, Reporting, Troubleshooting • Stacking (requires one license for each switch in a stack) • Dynamic Segmentation • Multi-Editor (AOS-CX devices only)	1
Note: To view a list of all supported network devices, please refer to the help documentation.			

Table 4: Aruba Central On-Premises SKUs and Descriptions

ORDERING INFORMATION	
Central On-Premises Server Appliances	
R1Q05B	Aruba Central Appliance
R1Q04B	Aruba Central Ready AirWave 8 Appliance
Foundation Licenses for Aruba Access Points	
R6U63AAE	Aruba Central On-Premises AP Foundation 1 year Subscription E-STU
R6U64AAE	Aruba Central On-Premises AP Foundation 3 year Subscription E-STU
R6U65AAE	Aruba Central On-Premises AP Foundation 5 year Subscription E-STU
R6U66AAE	Aruba Central On-Premises AP Foundation 7 year Subscription E-STU
R6U67AAE	Aruba Central On-Premises AP Foundation 10 year Subscription E-STU
Foundation Licenses for Aruba Wireless Controllers	
R6U58AAE	Aruba Central On-Premises Wireless Controller Foundation 1 Year Subscription E-STU
R6U59AAE	Aruba Central On-Premises Wireless Controller Foundation 3 Year Subscription E-STU
R6U60AAE	Aruba Central On-Premises Wireless Controller Foundation 5 Year Subscription E-STU

ORDERING INFORMATION	
Foundation Licenses for Aruba Wireless Controllers (continued)	
R6U61AAE	Aruba Central On-Premises Wireless Controller Foundation 7 Year Subscription E-STU
R6U62AAE	Aruba Central On-Premises Wireless Controller Foundation 10 Year Subscription E-STU
Foundation Licenses for Aruba Switches	
R6U73AAE	Aruba Central On-Premises 25xx/4100i/6000/6100/8 to 12 port Switch Foundation 1 year Subscription E-STU
R6U74AAE	Aruba Central On-Premises 25xx/4100i/6000/6100/8 to 12 port Switch Foundation 3 year Subscription E-STU
R6U75AAE	Aruba Central On-Premises 25xx/4100i/6000/6100/8 to 12 port Switch Foundation 5 year Subscription E-STU
R6U76AAE	Aruba Central On-Premises 25xx/4100i/6000/6100/8 to 12 port Switch Foundation 7 year Subscription E-STU
R6U77AAE	Aruba Central On-Premises 25xx/4100i/6000/6100/8 to 12 port Switch Foundation 10 year Subscription E-STU
R6U78AAE	Aruba Central On-Premises 62xx or 29xx Switch Foundation 1 year Subscription E-STU
R6U79AAE	Aruba Central On-Premises 62xx or 29xx Switch Foundation 3 year Subscription E-STU
R6U80AAE	Aruba Central On-Premises 62xx or 29xx Switch Foundation 5 year Subscription E-STU
R6U81AAE	Aruba Central On-Premises 62xx or 29xx Switch Foundation 7 year Subscription E-STU
R6U82AAE	Aruba Central On-Premises 62xx or 29xx Switch Foundation 10 year Subscription E-STU
R6U83AAE	Aruba Central On-Premises 63xx or 38xx Switch Foundation 1 year Subscription E-STU
R6U84AAE	Aruba Central On-Premises 63xx or 38xx Switch Foundation 3 year Subscription E-STU
R6U85AAE	Aruba Central On-Premises 63xx or 38xx Switch Foundation 5 year Subscription E-STU
R6U86AAE	Aruba Central On-Premises 63xx or 38xx Switch Foundation 7 year Subscription E-STU
R6U87AAE	Aruba Central On-Premises 63xx or 38xx Switch Foundation 10 year Subscription E-STU
R8M10AAE	Aruba Central On-Premises 64xx or 54xx Switch Foundation 1 year Subscription E-STU
R8M11AAE	Aruba Central On-Premises 64xx or 54xx Switch Foundation 3 year Subscription E-STU
R8M12AAE	Aruba Central On-Premises 64xx or 54xx Switch Foundation 5 year Subscription E-STU
R8M13AAE	Aruba Central On-Premises 64xx or 54xx Switch Foundation 7 year Subscription E-STU
R8M14AAE	Aruba Central On-Premises 64xx or 54xx Switch Foundation 10 year Subscription E-STU
R6U88AAE	Aruba Central On-Premises 8xxx Switch Foundation 1 year Subscription E-STU
R6U89AAE	Aruba Central On-Premises 8xxx Switch Foundation 3 year Subscription E-STU
R6U90AAE	Aruba Central On-Premises 8xxx Switch Foundation 5 year Subscription E-STU
R6U91AAE	Aruba Central On-Premises 8xxx Switch Foundation 7 year Subscription E-STU
R6U92AAE	Aruba Central On-Premises 8xxx Switch Foundation 10 year Subscription E-STU
Next Business Day (NBD) Hardware Support SKUs for Central On-Premises Appliances	
HW2A6E	1 Year Foundation Care NBD Exchange Hardware – Central On-Premises Appliance
HW2A8E	3 Year Foundation Care NBD Exchange Hardware – Central On-Premises Appliance
HW2B1E	4 Year Foundation Care NBD Exchange Hardware – Central On-Premises Appliance
HW2B4E	5 Year Foundation Care NBD Exchange Hardware – Central On-Premises Appliance
NBD or 4-Hour Onsite Hardware-Only Support for Aruba APs, Switches, and Wireless Controllers	
To locate Aruba Central Hardware-Only support options, please refer to the Support Services Central SKU lookup tool or contact your Aruba sales representative or value-added reseller.	
Refer to the following portfolio pages for additional information on each network device	
Access Points: https://www.arubanetworks.com/products/networking/access-points/	
Switches: https://www.arubanetworks.com/products/networking/switches/	
Gateways and Controllers: https://www.arubanetworks.com/products/networking/gateways-and-controllers/	

INTELLIGENT OPERATIONS FOR CENTRAL ON-PREMISES

Intelligent Operations for Central On-Premises is available for customers seeking additional operational and financial flexibility. This service provides subscription-based usage of the hardware and software that power Aruba Central On-Premises and is configured, managed, and continuously optimized by Aruba technology experts.

Intelligent Operations for Central On-Premises delivers cloud-like flexibility and significantly reduces overhead for in-house IT personnel. The result is an end-to-end solution that enhances IT efficiency, maximizes budgets, and ensures frictionless service delivery for optimal network performance. The offering can be included with GreenLake for Aruba service offerings, or as a standalone Professional Service with support.

ARUBA WIRELESS ACCESS POINTS AND MOBILITY CONTROLLERS

For wireless connectivity, order access points and/or mobility controllers that meet your scale, performance, and capacity needs, including the appropriate accessories such as antennas, power supplies, and mounting kits. Please refer to the respective wireless ordering guides for more details.

ARUBA SWITCHES

For wired connectivity, order switches that meet your scale, performance, and port density needs, including the appropriate accessories such as transceivers, power supplies, direct attach cables, and mounting kits. Please refer to the respective switching data sheets for more details.

FOUNDATION CARE FOR ARUBA HARDWARE-ONLY SUPPORT

Device subscriptions for Central On-Premises include software support and 24x7 TAC support. For immediate and timely hardware replacement, order Foundation Care for Aruba Hardware-Only Support. Options are available for next business day (NBD) or 4-Hour Onsite Support. For more information, enter the hardware SKU (refer to http://ssc.hpe.com/portal/site/ssc/) to look up the Foundation Care Hardware-Only Support SKU.

EXAMPLE BILL OF MATERIALS

The following section illustrates the components required to enable Aruba Central On-Premises. New customers can refer to tables 5 and 6 for an example bill of materials. For existing AirWave customers, please refer to tables 7 and 8 to see a comparison of one-time and recurring costs between AirWave and Aruba Central On-Premises.

Table 5: Example Network Deployment

Network Device	Quantity
Wireless Access Points	6,000
Wireless Controllers	3
Virtual Mobility Conductor	1
Access Switches	1,200
Aggregation/Distribution Switches	60
Core Switches	4
Number of NMS Appliance	3

Table 6: Example Bill of Materials for a 5-Year Investment

	Component	Part Number	Description	Quantity
Recurring Costs	AP Software Subscription	R6U64AAE	Aruba COP AP Fnd 5yr Sub E-ST	6,000
	Access Switch Software Subscription	R6U85AAE	Aruba COP 63/38xx F 5yr E-STU	1,200
	Agg/Core Switch Software Subscription	R6U90AAE	Aruba COP 8xxx F 5yr E-STU	64
	Controller Software Subscription	R6U59AAE	Aruba COP Campus GW Ctr Fd 5yr Sub E-STU	4
	Controller Hardware Support	HF9Q3E	Aruba 5 Year Foundation Care Next Business Day Exchange HW Only 7240XM Controller Service	4
	Access Switch Hardware Support	HR5Y0E	Aruba 5 Year Foundation Care 4-Hour Exchange 6300F 48 PoE Switch Service	1,200
	Agg Switch Hardware Support	HU7K1E	Aruba 5 Year Foundation Care Next business day Exchange Hardware Only 8325-48 Service	60
	Core Switch Hardware Support	HT6N3E	5 Year FC NBD Exch 8400 Swt SVC	4
	Appliance Hardware Support	HW2B4E	5 Year FC NBD Exch – On-Prem Appliance	3

	Component	Part Number	Description	Quantity
One-time Costs	Server Appliance	R1Q05B	Aruba Central Appliance	3
		R1T38A	Aruba DL360 Gen10 500W Spare PSU	3
		JW124A	PC-AC-NA North America AC Power Cord	3
	Virtual Mobility Conductor	JY898AAE	Aruba MM-VA-10K Mobility Conductor SW E-LTU	1
	Wireless Controllers	JW784A	Aruba 7240XM (US) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Controller	3
		JW657A	Aruba PSU-350-AC 7200 Series S3500-24T S3500-48T and S3500-24F 350W AC Power Supply	3
		J9150D	Aruba 10G SFP+ LC SR 300m MMF Transceiver	6
		JW124A	PC-AC-NA North America AC Power Cord	6
	Wireless Access Points	JZ337A	Aruba AP-535 (US) Unified AP	6,000
		Q9G71A	AP-MNT-MP10-D AP mount bracket 10-pack D	600
	AP Software	JW472AAE	Aruba LIC-AP Controller per AP Capacity License E-LTU	6,000
		JW473AAE	Aruba LIC-PEF Controller Policy Enforcement Firewall Per AP License E-LTU	6,000
		JW474AAE	Aruba LIC-RFP Controller RFProtect Per AP License E-LTU	6,000
	Access Switches	JL665A	Aruba 6300F 48G CL4 PoE 4SFP56 Switch	1,200
		JL486A	Aruba 25G SFP28 LC LR 10km SMF Transceiver	600
		JL488A	Aruba 25G SFP28 to SFP28 3m DAC Cable	1,200
	Aggregation Switches	JL624A	Aruba 8325-48Y8C FB 6 F 2 PS Bundle	60
		JL483B	Aruba X474 4-post Rack Kit	60
		J4859D	Aruba 1G SFP LC LX 10km SMF Transceiver	60
		JL486A	Aruba 25G SFP28 LC LR 10km SMF Transceiver	600
		JH232A	HPE X142 40G QSFP+ LC LR4 SM Transceiver	180
	Core Switches	JL375A	Aruba 8400 8-slot Chassis/3xFan Trays/18xFans/Cable Manager/X462 Bundle	4
		H8XE6E	HPE Aruba 6xxxN8xxx Install Swt SVC	4
		JL372A	Aruba X382 54VDC 2750W AC Power Supply	16
		JL365A	Aruba 8400X 8p 40G QSFP+ Advanced Module	12
		JH232A	HPE X142 40G QSFP+ LC LR4 SM Transceiver	76
		JL687A	Aruba 8400X-32Y 32p 1/10/25G Module	4
		J4859D	Aruba 1G SFP LC LX 10km SMF Transceiver	4
		JL368A	Aruba 8400 Management Module	8
		JL367A	Aruba 8400X 7.2Tbps Fabric Module	12

Table 7: One-time Costs of AirWave vs. Aruba Central On-Premises

Category	Type	AirWave	Central On-Prem
NMS	Hardware Appliance	✗	✗
	NMS Software	✗	
	NMS Software Failover	✗	
Controller/Mobility Conductor (MC)	Controller/MC Hardware	✗	✗
	Controller/MC Software	✗	✗
Access Point	AP Hardware	✗	✗
	AP Software	✗	✗
Switch	Switch Hardware	✗	✗
	Switch Software	✗	✗

Table 8: Recurring Costs of AirWave vs. Aruba Central On-Premises

Category	Type	AirWave	Central On-Prem
NMS	Hardware Appliance Support	✗	✗
	NMS Software Support	✗	
	NMS Software Failover Support	✗	
Controller/Mobility Conductor (MC)	Controller/MC Hardware Support	✗	✗
	MC Software Support	✗	
	Central On-Prem Subscription for MC		✗
	Central On-Prem Subscription for Controller		✗
Access Point	AP Hardware Support	✗	✗
	AP Software Support (AP/PEF/RFP)	✗	
	Central On-Prem Subscription for AP		✗
Switch	Switch Hardware Support	✗	✗
	Switch Software Support	✗	
	Central On-Prem Subscription for Switch		✗

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