



DEFENSE INFORMATION SYSTEMS AGENCY

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IN REPLY
REFER TO: Joint Interoperability Test Command (JTE)

10 September 2024

MEMORANDUM FOR DISTRIBUTION

SUBJECT: Extension of the Joint Interoperability Certification of Hewlett Packard Enterprise (HPE) Aruba Networking Mobility Controllers (7000/7200 and 9000/9200 Series) with specified Virtual Controllers and Access Points (APs) with Software Release Aruba Operating System (ArubaOS) 8.10.0.2

References: (a) Department of Defense Instruction 8100.04, "DoD Unified Capabilities (UC)," 9 December 2010
(b) Office of the Department of Defense Chief Information Officer, "Department of Defense Unified Capabilities Requirements 2013, Change 2" September 2017
(c) through (f), see Enclosure

1. Certification Authority. Reference (a) establishes the Joint Interoperability Test Command (JITC) as the Joint Interoperability Certification Authority for Department of Defense Information Network (DoDIN) products, Reference (b).

2. Conditions of Certification. Hewlett Packard Enterprise (HPE) Aruba Networking Mobility Controllers (7000/7200 and 9000/9200 Series) with specified Virtual Controllers and Access Points (APs) with Software Release Aruba Operating System (ArubaOS) 8.10.0.2, is hereinafter referred to as the System Under Test (SUT). The SUT meets the requirements of the Unified Capabilities Requirements (UCR), Reference (b), as a Wireless Intrusion Detection System (WIDS) Security Device and is certified for joint use with no conditions (see Table 1).

This certification expires upon changes that could affect interoperability, but no later than the expiration date specified in the DoDIN Approved Products List (APL) memorandum.

This extension of the certification is for Desktop Review (DTR) 8. DTR 8 requested the following:

- Update the Vendor's name from "Aruba, a Hewlett Packard Enterprise company" to "HPE Aruba Networking".
- Add the AP-503H and AP-505H APs to the list of certified SUT components by similarity.
- Provide current Federal Information Processing Standards (FIPS) 140-2 Cryptographic Module Validation Program (CMVP) certificate.

JITC Memo, JTE, Extension of the Joint Interoperability Certification of Hewlett Packard Enterprise (HPE) Aruba Networking Mobility Controllers (7000/7200 and 9000/9200 Series) with specified Virtual Controllers and Access Points (APs) with Software Release Aruba Operating System (ArubaOS) 8.10.0.2

Table 2. SUT Interface Status (continued)

Interface	Applicability: (R), (O), (C)	Status	Remarks
Network Interfaces (See note 2.)			
5 GHz wireless, up to 54 Mbps	R	Met	IAW IEEE 802.11a
2.4 GHz wireless, up to 11 Mbps	R	Met	IAW IEEE 802.11b
2.4 GHz wireless, up to 54 Mbps	R	Met	IAW IEEE 802.11g
MIMO wireless, up to 100 Mbps	R	Met	IAW IEEE 802.11n
MIMO wireless, up to 433 Mbps	R	Met	IAW IEEE 802.11ac
Multi-user MIMO wireless, up to 6.93 Gbps	O	Met	IAW IEEE 802.11ax (See note 3.)
NOTE(S):			
1. The UCR 2013, Change 2, Section 13, does not identify individual interface requirements for security devices. The SUT must minimally provide Ethernet interfaces that meet the requirements in Section 2.7.1.			
2. To comply with UCR requirement SEC-000120, WIDS products shall support monitoring/scanning of all the wireless network interfaces.			
3. With DTR 4 testing conducted by USAISEC-TIC 16-19 February 2021 on AP-515, AP-535, and AP-555, the IEEE 802.11ax interface was certified on the AP-500 Series added with DTR 3.			
LEGEND:			
802.3ab	1000BaseT Ethernet over twisted pair	EIA/TIA	Electronic Industries Alliance/ Telecommunications Industry Association
802.3i	10BaseT Mbps over twisted pair		
802.3j	10BaseF over Fiber-Optic	Gbps	Gigabits per second
802.3u	CSMA with collision detection at 100 Mbps	GHz	GigaHertz
802.3z	1 Gbps Ethernet	IAW	In accordance with
802.11a	1.5 to 54 Mbps	IEEE	Institute of Electrical and Electronics Engineers
802.11b	11 Mbps Maximum	Mbps	Megabits per second
802.11g	2.4 GHz band, 11 Mbps Maximum	MIMO	Multiple-Input Multiple-Output
802.11n	2.4 GHz and 5 GHz, 600 Mbps Maximum	O	Optional
802.11ac	5 GHz band, 3.46 Gbps Maximum	R	Required
802.11ax	1 GHz to 7.125 GHz	SEC	Security
BaseF	Megabit Ethernet over Fiber	SUT	System Under Test
BaseT	Mbps (Baseband Operation, Twisted Pair) Ethernet	TIC	Technology Integration Center
C	Conditional	UCR	Unified Capabilities Requirements
CSMA	Carrier Sense Multiple Access	USAISEC	U.S. Army Information Systems Engineering Command
DTR	Desktop Review	WIDS	Wireless Intrusion Detection System

Table 3. SUT Capability Requirements and Functional Requirements Status

CR/FR ID	UCR Requirement (See note 1.)	UCR 2013 Change 2 Reference	Status
1	Cybersecurity (R)	See note.2	Met (See note.2)
2	IPv6 (R)	5.2	NA (See note 3.)
3	Security Device Requirements (R)	13.2	Met for WIDS
NOTE(S):			
1. The annotation of “required” refers to a high-level requirement category. Enclosure 3 of Reference (c) provides the applicability of each sub-requirement.			
2. A Cybersecurity test team conducted Cybersecurity testing based on DISA STIGs/SRGs and published the results published in a separate report, Reference (d).			
3. WIDS operates at Layer 2 therefore, IPv6 is not applicable.			
LEGEND:			
CR	Capability Requirements	SRG	Security Requirements Guide
DISA	Defense Information Systems Agency	STIG	Security Technical Implementation Guide
FR	Functional Requirements	TIC	Technology Integration Center
ID	Identification	UCR	Unified Capabilities Requirements
IPv6	Internet Protocol version 6	USAISEC	U.S. Army Information Systems Engineering Command
NA	Not Applicable	WIDS	Wireless Intrusion Detection System
R	Required		

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Table 4. DoDIN APL Product Summary

Product Identification				
Product Name	Mobility Controllers (7000/7200 and 9000/9200 Series) with specified Virtual Controllers and APs			
Software Release	ArubaOS 8.10.0.2 (See note 1.)			
UCR Product Type(s)	WIDS			
Product Description	WIDS/Mobility Controllers and WIDS sensors/APs provide detection and location of wireless attacks and rogue wireless devices.			
DoDIN Certified Function	Component/Sub-Component Name (See notes 2, 3, and 4.)	Tested Version (See note 1.)	Remarks	
WIDS	<u>Aruba 7005</u>	ArubaOS 8.10.0.2	Mobility Controllers	
	Aruba 7008			
	Aruba 7010			
	Aruba 7024			
	Aruba 7030			
	Aruba 7205			
	Aruba 7210			
	Aruba 7220			
	<u>Aruba 7240/7240XM</u>			
	Aruba 7280 (See note 5.)			
	<u>Virtual Mobility Controller</u>		Virtual Mobility Controller (See notes 6 and 7.)	
	Aruba 9004 TAA			
	Aruba 9012 TAA			
	Aruba 9240 FIPS/TAA Campus		Mobility Master	
	<u>Mobility Master</u>		Virtual Mobility Master (See note 6.)	
	<u>Virtual Mobility Master</u>		APs/WIDS sensors	
	Name			Chipset
	AP-503H/AP-505H (See note 5.)			Broadcom BCM 40000
	AP-504/505 (See note 5.)			
	AP-514/515 (See note 5.)			
AP-565/567 (See note 8.)				
AP-574/575/577 (See note 8.)				
AP-615 (See note 7.)	Qualcomm IPQ6000			
AP-635 (See note 7.)				
AP-534/535 (See note 5.)	Qualcomm IPQ8000			
AP-555 (See note 5.)				
AP-584/585/587 (See note 8.)				
AP-655 (See note 7.)				
NOTE(S):				
1. The SUT was initially certified with ArubaOS 8.2. The ArubaOS Software Release version was updated with subsequent DTRs as follows: DTR1 from 8.2 to 8.5; DTR 2 from 8.5 to 8.6.0.3; DTR 5 from 8.6.0.3 to 8.10.0.2.				
2. Table 3-3 in Enclosure 3 of Reference (c) provides the detailed descriptions on the initially tested components and sub-components.				
3. JITC tested the components bolded and underlined. The other components in the family series were not tested; however, JITC certified the other components for joint use because they utilize the same software and similar hardware as tested and certified components and analysis determined they were functionally identical for interoperability certification purposes.				

(Table continues next page.)

JITC Memo, JTE, Extension of the Joint Interoperability Certification of Hewlett Packard Enterprise (HPE) Aruba Networking Mobility Controllers (7000/7200 and 9000/9200 Series) with specified Virtual Controllers and Access Points (APs) with Software Release Aruba Operating System (ArubaOS) 8.10.0.2

Table 4. DoDIN APL Product Summary (continued)

NOTE(S): (continued)			
4. With DTR 5, the following APs were removed from the list of certified SUT components due to expiration of FIPS CMVP certification: AP-214/215, AP-224/225, AP-228, AP-274/275/277, and AP-324/325. With DTR 8, the following APs were removed from the certified SUT components due to expiration of FIPS CMVP certification or as end of sale: AP-203R/203RP, AP-204/205, AP-205H, AP-303H, AP-304/305, AP-314/315, AP-318, AP-334/335, AP-344/345, AP-365/367, AP-374/375/377, and AP-387.			
5. With DTR 3, the following APs and MC were added based on analysis and similarity to the previously tested and certified APs and MCs: AP-318, AP-344/345, AP-374/375/377, AP-387, AP-504/505, AP-514/515, AP-534/535, AP-555 and MC7280. With DTR 4, the IEEE 802.11ax capability was certified on the AP-500 Series added with DTR 3 based on testing conducted by USAISEC-TIC 16-19 February 2021 on AP-515, AP-535, and AP-555. With DTR 8, AP-503H and AP-505H were added to the list of certified SUT components based on analysis and similarity to the previously tested and certified AP-510 series, and the following APs were removed from the certified SUT components due to expiration of FIPS CMVP certification or as end of sale: AP-318, AP-344/345, AP-374/375/377, and AP-387.			
6. USAISEC TIC tested the virtual components of the SUT on VMware ESXi 6.5. The site will need to provide hardware that meets or exceeds the minimum vendor-recommended hardware.			
7. With DTR 7, the 9000 and 9200 Mobility Controllers and AP-615, AP-635, and AP-655 were added to the list of certified SUT components without testing based on analysis and similarity to the previously certified components.			
8. With DTR 6, the AP-560 and AP-570 series APs were added based on analysis and similarity to the currently certified AP-203R, and the AP-580 series APs were added based on analysis and similarity to the currently certified AP-314/315. With DTR 8, AP-203R and AP-314/315 were removed from the certified SUT components due to expiration of FIPS CMVP certification or as end of sale.			
LEGEND:			
2K	2,000	MC	Mobility Controller
AP	Access Point	N/A	Not Applicable
APL	Approved Products List	OS	Operating System
ARM	Advanced RISC Machine	PoE+	Power over Ethernet Type 2
CAT	Category	RISC	Reduced Instruction Set Computer
CMVP	Cryptographic Validation Program	SFP	Small Form-Factor Pluggable
CPU	Central Processing Unit	SUT	System Under Test
DoDIN	Department of Defense Information Network	TAA	Trade Agreement Act
DTR	Desktop Review	TIC	Technology Integration Center
ESXi	Elastic Sky X integrated	UCR	Unified Capabilities Requirements
FIPS	Federal Information Processing Standard	US	United States
GbE	Gigabit Ethernet	USAISEC	U.S. Army Information Systems Engineering Command
IEEE	Institute of Electrical and Electronics Engineers	VM	Virtual Machine
JITC	Joint Interoperability Test Command	VPN	Virtual Private Network
LTE	Long-term Evolution	WIDS	Wireless Intrusion Detection System

4. Test Details. This extension of the certification is based on DTR 8. The original certification, documented in Reference (c), was based on interoperability (IO) testing, review of the Vendor’s Letter of Compliance (LoC), and the Army CIO/G-6 Certifying Authority Recommendation for inclusion on the DoDIN APL. The United States Army Information Systems Engineering Command Mission Engineering Directorate, Technology Integration Center (USAISEC-MED TIC), hereafter referred to as USAISEC TIC, conducted IO testing at Fort Huachuca, Arizona, from 11 June through 15 June 2018, using test procedures derived from Reference (e), and completed review of the Vendor's LoC on 12 June 2018. There were no test discrepancies. A USAISEC TIC-led test team conducted Cybersecurity (CS) testing and published the results in a separate report, Reference (d). Enclosure 2 of Reference (c) documents the test results and describes the test network and system configurations. Enclosure 3 of Reference (c) provides a detailed list of the interface, capability, and functional requirements.

JITC Memo, JTE, Extension of the Joint Interoperability Certification of Hewlett Packard Enterprise (HPE) Aruba Networking Mobility Controllers (7000/7200 and 9000/9200 Series) with specified Virtual Controllers and Access Points (APs) with Software Release Aruba Operating System (ArubaOS) 8.10.0.2

DTR 8 requested the following:

- Update the Vendor’s name from “Aruba, a Hewlett Packard Enterprise company” to “HPE Aruba Networking”.
- Add the AP-503H and AP-505H APs to the list of certified SUT components by similarity.
- Provide current FIPS 140-2 CMVP certificate.
- Remove the following APs from the list of certified SUT components due to expiration of FIPS CMVP certification or as end of sale:

AP-203R/203RP	AP-303H	AP-318	AP-365/367
AP-204/205	AP-304/305	AP-334/335	AP-374/375/377
AP-205H	AP-314/315	AP-344/345	AP-387

JITC analysis determined no additional CS or IO testing was required for this request because the new AP-503H and AP-505H with similar hardware and operation on the same software as the currently certified AP-510 series (chipset Broadcom BCM 40000) and removal of the APs listed above did not change the certified IO features and function or approved CS posture of the SUT. Analysis of this DTR request was performed based on current UCR 2013 Change 2 test procedures, Reference (f).

Based on analysis and no change to the certified SUT IO features and function, JITC approves DTR 8.

In addition, the current CS posture of the SUT and current FIPS 140-2 CMVP certificate are documented in a separate report, Reference (d).

5. Additional Information. JITC distributes interoperability information via the JITC Electronic Report Distribution (ERD) system, which uses Sensitive but Unclassified Internet Protocol Data (formerly known as NIPRNet) e-mail. Interoperability status information is available via the JITC System Tracking Program (STP). STP is accessible by .mil/.gov users at <https://stp.jitc.disa.mil/>. Test reports, lessons learned, and related testing documents and references are on the JITC Industry Toolkit (JIT) at <https://jit.fhu.disa.mil/>. Due to the sensitivity of the information, the CS Assessment Package that contains the approved configuration and deployment guide must be requested directly from the Approved Products Certification Office (APCO) via e-mail: disa.meade.peo-transport.list.approved-products-certification-of@mail.mil. All associated information is available on the DISA APCO website located at <https://aplits.disa.mil/>.

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6. Point of Contact (POC). JITC POC: Mr. Edward Mellon; commercial telephone (301) 225-5354; DSN (312) 375-5354; e-mail address: edward.a.mellon.civ@mail.mil; mailing address: Joint Interoperability Test Command, ATTN: JTE2 (Mr. Edward Mellon), 6910 Cooper Avenue, Fort Meade, Maryland 20755-7085. The APCO tracking number for the SUT is 1805301.

FOR THE COMMANDER:

Enclosure a/s

LAWRENCE T. DORN
Chief
Specialized Test Division

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ADDITIONAL REFERENCES

- (c) Joint Interoperability Test Command (JITC) Memo, JTD, “Joint Interoperability Certification of Aruba, a Hewlett Packard Enterprise company, 7000 and 7200 Series Mobility Controllers with specified Virtual Controllers and Access Points (APs), Software Release Aruba Operating System (ArubaOS) 8.2,” 12 September 2018
- (d) JITC, “Cybersecurity Assessment Report for Hewlett Packard Enterprise (HPE) Aruba Networking Mobility Controllers (7000/7200 and 9000/9200 Series) with specified Virtual Controllers and Access Points (APs), Software Release ArubaOS 8.10.0.2, Tracking Number (TN) 1805301,” August 2024
- (e) JITC, “Unified Capabilities Security Device Test Procedures Version 1.0 for Unified Capabilities Requirements (UCR) 2013 Change 2,” September 2017
- (f) JITC, “Wireless Intrusion Detection System (WIDS) Test Procedures Version 1.1 For Unified Capabilities Requirements (UCR) 2013 Change 2,” December 2022 (Draft)