



DEFENSE INFORMATION SYSTEMS AGENCY

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FORT MEADE, MARYLAND 20755-0549

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

25 Jul 13

SUBJECT: Extension of the Special Interoperability Test Certification of the HP A12500 series Switch with release 5.20

References: (a) DoD Directive 4630.05, "Interoperability and Supportability of Information Technology (IT) and National Security Systems (NSS)," 5 May 2005
(b) CJCSI 6212.01E, "Interoperability and Supportability of Information Technology and National Security Systems," 15 December 2008
(c) through (f), see Enclosure

1. References (a) and (b) establish the Defense Information Systems Agency (DISA), Joint Interoperability Test Command (JITC), as the responsible organization for interoperability test certification.

2. The HP A12518 with release 5.20 is hereinafter referred to as the system under test (SUT). The SUT meets all of its critical interoperability requirements and is certified for joint use within the Defense Information System Network (DISN) as an Assured Services Local Area Network (ASLAN) core, distribution, and access switch. The SUT is certified as interoperable for joint use with other ASLAN components listed on the Unified Capabilities (UC) Approved Products List (APL) with the following interfaces: 10/100/1000BaseT and 100/1000BaseX for access, 10/100/1000BaseT and 100/1000/10GBaseX for uplink. The SUT meets the critical interoperability requirements set forth in Reference (c), using test procedures derived from Reference (d). The HP A12508 employs the same software and similar hardware as the SUT. JITC analysis determined this system to be functionally identical to the SUT for interoperability certification purposes, and it is also certified for joint use.

The SUT is certified to support Defense Information System Network (DISN) Assured Services over Internet Protocol. If a component meets the minimum requirements for deployment in an ASLAN, it also meets the lesser requirements for deployment in a non-ASLAN. Non-ASLANs are "commercial grade" and provide support to Command and Control (C2) (ROUTINE only calls) (C2(R)), or non-C2 voice subscribers. The SUT is certified for joint use deployment in a non-ASLAN for C2(R) and non-C2 traffic. When deployed in a non-ASLAN, the SUT may also be used to receive all levels of precedence but is limited to supporting calls that are originated at ROUTINE precedence only. Non-ASLANs do not meet the availability or redundancy requirements for C2 or Special C2 users and therefore are not authorized to support precedence calls originated above ROUTINE.

Testing of the SUT did not include video services or data applications; however, simulated video traffic, preferred data, and best effort data, were generated during testing to determine the SUT's ability to prioritize and properly queue voice media and signaling traffic. No other configurations, features, or functions, except those cited within this document, are certified by

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JITC. This certification expires upon changes that affect interoperability but no later than three years from the date of the original DISA Certifying Authority (CA)-provided positive recommendation (27 October 2011).

3. The extension of this certification is based on Desktop Review (DTR) 2. The original certification, documented in Reference (e), is based on interoperability testing conducted by the United States Army Information Systems Engineering Command, Technology Integration Center (USAISEC TIC), DISA adjudication of open test discrepancy reports (TDRs), review of the vendor’s Letters of Compliance (LoC), and the DISA CA Recommendation. Interoperability testing was conducted by the USAISEC TIC, Fort Huachuca, Arizona, from 11 July through 5 August 2011. Review of the vendor’s LoC was completed on 17 August 2011. DISA’s adjudication of outstanding TDRs was completed on 23 August 2011. The DISA CA provided a positive recommendation on 27 October 2011, based on the security testing completed by USAISEC TIC-led IA test teams. Those test results are published in a separate report, Reference (f). This DTR was requested to include Trade Agreements Act (TAA) Stock Keeping Unit (SKU) numbers. These products are identical to the "B" series SKUs added in DTR 1; however, they have a different site of manufacture. Table 1 denotes the additional TAA SKU numbers in parenthesis next to the products they are identical to. JITC determined through analysis that this DTR would not impact the interoperability certified features and functions of the SUT. Therefore, JITC approves this DTR without testing. Additionally, the DISA CA has approved this DTR to include the TAA SKUs without further testing. Therefore, the original IA approval applies to this DTR.

Table 1. Unified Capabilities Product Summary

Component (See note 1.)	Release	Sub-Component (See note 1.)	Certification Applicability																						
			Core	Distribution	Access																				
<u>HP A12518</u> A12508	5.20	<u>JC072A</u> (JC072B (JC808A)), <u>JC066A</u> , JC067B (JC820A), <u>JC065A</u> (JC065B (JC809A)), JC074A (JC074B), JC075A (JC075B), JC069A (JC069B (JC811A)), <u>JC070A</u> , JC076A, JC068A (JC068B (JC810A)), JC073A (JC073B), <u>JC064A</u> (JC064B), JC476A (JC476B (JC812A)) (See notes 2 and 3.)	Yes	Yes	Yes																				
<p>NOTES:</p> <p>1. Components bolded and underlined were tested by the USAISEC TIC. The other components in the family series were not tested; however, they utilize the same OS software and similar hardware. JITC analysis determined them to be functionally identical for IO certification purposes and they are also certified for joint use.</p> <p>2. DTR 1 was requested to include "B" series SKU numbers in parenthesis next to the SKU numbers they are virtually identical to. These products are identical to the ones tested with one exception, each "B" series SKU includes additional memory to allow for forward upgrade compatibility with a planned new major Operating System.</p> <p>3. This DTR was requested to include the TAA SKU numbers in parenthesis next to the "B" series SKU numbers they are identical to. These products are identical to the "B" series SKUs added in DTR 1; however, they have a different site of manufacture.</p> <p>LEGEND:</p> <table> <tr> <td>DTR</td> <td>Desktop Review</td> <td>SKU</td> <td>Stock Keeping Unit</td> </tr> <tr> <td>HP</td> <td>Hewlett-Packard</td> <td>SUT</td> <td>System Under Test</td> </tr> <tr> <td>IO</td> <td>Interoperability</td> <td>TAA</td> <td>Trade Agreements Act</td> </tr> <tr> <td>JITC</td> <td>Joint Interoperability Test Command</td> <td>TIC</td> <td>Technology Integration Center</td> </tr> <tr> <td>OS</td> <td>Operating System</td> <td>USAISEC</td> <td>U.S. Army Information Systems Engineering Command</td> </tr> </table>						DTR	Desktop Review	SKU	Stock Keeping Unit	HP	Hewlett-Packard	SUT	System Under Test	IO	Interoperability	TAA	Trade Agreements Act	JITC	Joint Interoperability Test Command	TIC	Technology Integration Center	OS	Operating System	USAISEC	U.S. Army Information Systems Engineering Command
DTR	Desktop Review	SKU	Stock Keeping Unit																						
HP	Hewlett-Packard	SUT	System Under Test																						
IO	Interoperability	TAA	Trade Agreements Act																						
JITC	Joint Interoperability Test Command	TIC	Technology Integration Center																						
OS	Operating System	USAISEC	U.S. Army Information Systems Engineering Command																						

4. Table 2 provides the SUT’s interface status. The SUT’s capability and functional requirements are listed in Table 3.

Table 2. SUT Interface Status

Interface	Applicability			CRs/FRs (See note 1.)	Status		
	Co	D	A		Co	D	A
Network Management Interfaces for Core Layer Switches							
EIA/TIA-232 (Serial)	R	R	R	EIA/TIA-232	Met	Met	Met
IEEE 802.3i (10BaseT UTP)	C	C	C	1, 6-15, 18-28, 31, 32-36, 48-53, 58-60, 65, 67-71	Met	Met	Met
IEEE 802.3u (100BaseT UTP)	C	C	C	1, 6-15, 18-28, 31, 32-36, 48-53, 58-60, 65, 67-71	Met	Met	Met
IEEE 802.3ab (1000BaseT UTP)	C	C	C	1, 6-15, 18-28, 31, 32-36, 48-53, 58-60, 65, 67-71	Met	Met	Met
Uplink Interfaces for Core Layer Switches							
IEEE 802.3u (100BaseT UTP)	R	R	C (See note 2.)	1-15, 16, 18-24, 28-31, 40, 44-53, 55-60, 65-75	Met	Met	Met
IEEE 802.3u (100BaseFX)	C	C	C (See note 2.)	1-6, 11, 16, 18-24, 28-31, 40-41, 44-53, 55-60, 65-75	Met	Met	Met
IEEE 802.3ab (1000BaseT UTP)	C	C	C (See note 2.)	1-16, 18-24, 28-31, 40, 44-53, 55-60, 65-75	Met	Met	Met
IEEE 802.3z (1000BaseX Fiber)	R	R	C (See note 2.)	1-5, 8-16, 18-24, 28-31, 40, 44-53, 55-60, 65-75	Met	Met	Met
IEEE 802.3ae (10GBaseX)	C	C	C (See note 2.)	1-5, 8-16, 18, 19, 40-41, 44-53, 55-60, 65-75	Met	Met	Met
Access Interfaces for Core Layer Switches							
IEEE 802.3i (10BaseT UTP)	C	C	C (See note 2.)	1-15, 18-24, 28-41, 44-54, 58-71	Met	Met	Met
IEEE 802.3u (100BaseT UTP)	R	R	C (See note 2.)	1-15, 18-24, 28-41, 44-54, 58-71	Met (See note 3.)	Met (See note 3.)	Met (See note 3.)
IEEE 802.3u (100BaseFX)	C	C	C (See note 2.)	1-6, 11, 18-24, 28-31, 44-54, 58-71	Met	Met	Met
IEEE 802.3ab (1000BaseT UTP)	C	C	C (See note 2.)	1-15, 18-24, 28-41, 44-54, 58-71	Met	Met	Met
IEEE 802.3z (1000BaseX Fiber)	R	R	C (See note 2.)	1-6, 11, 18-24, 28-31, 44-54, 58-71	Met	Met	Met
Generic Requirements for all Interfaces							
Generic Requirements not associated with specific interfaces	R	R	R	30-32, 35, 36, 40, 69-71	Met	Met	Met
DoD IPv6 Profile Requirements	R	R	R	UCR Section 5.3.5.5	Met	Met	Met
Security	R	R	R	UCR Sections 5.3.1.3.8, 5.3.1.5, 5.3.1.6, and 5.4	Met (See note 4.)	Met (See note 4.)	Met (See note 4.)

NOTES:

- The SUT’s specific capability and functional requirement ID numbers depicted in the CRs/FRs column can be cross-referenced in Table 3. These requirements are for the following switch models, which are certified for Core, Distribution, and Access in the ASLAN: **HP A12518**, A12508. The devices listed that are not bolded or underlined are in the same family series as the SUT but were not tested. However, they utilize the same OS software and similar hardware as the SUT, and JITC analysis determined them to be functionally identical for interoperability certification purposes.
- Access layer switches are required to support only one of the following IEEE interfaces: 802.3i, 802.3j, 802.3u, 802.3ab, or 802.3z.
- The SUT failed to auto negotiate at the 802.3u 100 Mbps rate, a required interface for core devices per UCR Change 2 paragraph 5.3.1.3.1. DISA adjudicated this discrepancy as having a minor operational impact, provided that the following condition of fielding is met: 100 Mbps full duplex must be set at both ends or auto negotiate must be set at both ends.
- Security testing is accomplished via USAISEC TIC-led Information Assurance test teams, and the results are published in a separate report, Reference (f).

Table 2. SUT Interface Status (continued)

LEGEND:			
802.3ab	1000BaseT Gbps Ethernet over twisted pair at 1 Gbps (125 Mbps)	DCE	Data Circuit-terminating Equipment
802.3ae	10 Gbps Ethernet	DISA	Defense Information Systems Agency
802.3i	10BaseT Mbps over twisted pair	DoD	Department of Defense
802.3u	Standard for carrier sense multiple access with collision detection at 100 Mbps	DTE	Data Terminal Equipment
802.3z	Gigabit Ethernet Standard	EIA	Electronic Industries Alliance
10BaseT	10 Mbps (Baseband Operation, Twisted Pair) Ethernet	EIA-232	Standard for defining the mechanical and electrical characteristics for connecting DTE and DCE data communications devices
100BaseT	100 Mbps (Baseband Operation, Twisted Pair) Ethernet	FR	Functional Requirement
100BaseFX	100 Mbps Ethernet over fiber	Gbps	Gigabits per second
1000BaseT	1000 Mbps (Baseband Operation, Twisted Pair) Ethernet	ID	Identification
1000BaseX	1000 Mbps Ethernet over fiber	IEEE	Institute of Electrical and Electronics Engineers
10GBaseX	10000 Mbps Ethernet over Category 5 Twisted Pair Copper	IPv6	Internet Protocol version 6
A	Access	JITC	Joint Interoperability Test Command
ASLAN	Assured Services Local Area Network	Mbps	Megabits per second
C	Conditional	OS	Operating System
Co	Core	R	Required
CR	Capability Requirement	SUT	System Under Test
D	Distribution	TIA	Telecommunications Industry Association
		TIC	Technology Integration Center
		UCR	Unified Capabilities Requirements
		USAISEC	U.S. Army Information Systems Engineering Command
		UTP	Unshielded Twisted Pair

Table 3. SUT Capability and Functional Requirements

ID	Requirement (See note 1.)	UCR Reference
1	ASLAN components can have no single point of failure for >96 users for C2 and Special C2 users. Non-ASLAN components can have a single point of failure for C2(R) and non-C2 users. (R)	5.3.1.2.1, 5.3.1.7.7
2	Non-blocking of any voice or video traffic at 50% for core and distribution layer switches and 12.5% blocking for access layer switches. (R)	5.3.1.3
3	Maximum of 1 ms of jitter for voice, 10 ms for video, and preferred data and best effort data. NA for all ASLAN components. (R)	5.3.1.3
4	Maximum of 0.015% packet loss for Voice, 0.05 % for video and preferred data for all ASLAN components. (R)	5.3.1.3
5	Maximum of 2 ms latency for voice, 10 ms for video, 15 ms for preferred data and best effort data. NA for all ASLAN components. (R)	5.3.1.3
6	100 Mbps IAW IEEE 802.3u and 1 Gbps IAW IEEE 802.3z for core and distribution layer components and only one of the following IEEE interfaces for access layer components: 802.3i, 802.3j, 802.3u, 802.3ab, or 802.3z. (R)	5.3.1.3.1
7	Force mode and auto-negotiation IAW IEEE 802.3, filtering IAW RFC 1812, and flow control IAW IEEE 802.3x. (R)	5.3.1.3.2
8	Port Parameter Requirements	Auto-negotiation IAW IEEE 802.3. (R)
9		Force mode IAW IEEE 802.3. (R)
10		Flow control IAW IEEE 802.3x. (R)
11		Filtering IAW RFC 1812. (R)
12		Link Aggregation IAW IEEE 802.3ad (output/egress ports only). (R)
13		Spanning Tree Protocol IAW IEEE 802.1D. (R)
14		Multiple Spanning Tree IAW IEEE 802.1s. (R)
15		Rapid Reconfiguration of Spanning Tree IAW IEEE 802.1w. (R)
16	LACP link Failover and Link Aggregation IAW IEEE 802.3ad (uplink ports only) for core and distribution switches. (C)	5.3.1.3.2, 5.3.1.7.7.1
17	Class of Service Marking: Layer 3 DSCPs IAW RFC 2474 (R); Layer 2 3-bit user priority field of the IEEE 802.1Q 2-byte TC1 field. (C)	5.3.1.3.3
18	VLAN capabilities IAW IEEE 802.1Q. (R)	5.3.1.3.4

Table 3. SUT Capability and Functional Requirements (continued)

ID	Requirement (See note 1.)	UCR Reference
19	Protocols IAW DISR profile (IPv4 and IPv6). IPv4 (R: LAN Switch, Layer 2 Switch): IPv6 (R: LAN Switch, C: Layer 2 Switch). (See note 2.)	5.3.1.3.5
20	QoS Features	Shall support minimum of 4 queues. (R)
21		Must be able to assign VLAN tagged packets to a queue. (R)
22		Support DSCP PHBs per RFCs 2474, 2494, 2597, 2598, and 3246. (R: LAN Switch) (See note 3.)
23		Support a minimum of one of the following: WFQ IAW RFC 3662, PQ IAW RFC 1046, or Class-Based WFQ IAW RFC 3366. (R)
24		Must be able to assign a bandwidth or a percentage of traffic to any queue. (R)
25	Network Monitoring	SNMP IAW RFCs 1157, 2206, 3410, 3411, 3412, 3413, and 3414. (R)
26		SNMP traps IAW RFC 1215. (R)
27		Remote monitoring IAW RFC 1281 and AES Cipher Algorithm in the SNMP User-based Security Model IAW RFC 3826. (R)
28	Product Requirements Summary IAW UCR 2008, Table 5.3.1-5. (R)	5.3.1.3.9
29	E2E Performance (Voice)	No more than 6 ms Latency over any 5-minute period measured under 100% congestion. (R)
30		No more than 3 ms Jitter over any 5-minute period measured under 100% congestion. (R)
31		Packet loss not to exceed .045% engineered (queuing) parameters over any 5-minute period under congestion. (R)
30	E2E Performance (Video)	No more than 30 ms Latency over any 5-minute period measured under 100% congestion. (R)
31		No more than 30 ms Jitter over any 5-minute period measured under congestion. (R)
32		Packet loss not to exceed 15% engineered (queuing) parameters over any 5-minute period under 100% congestion. (R)
31	E2E Performance (Data)	No more than 45 ms Latency over any 5-minute period measured under congestion. (R)
32		Packet loss not to exceed engineered (queuing) parameters over any 5-minute period under congestion. (R)
32	LAN Network Management	Configuration Control for ASLAN and non-ASLAN. (R)
33		Operational Controls for ASLAN and non-ASLAN. (R)
34		Performance Monitoring for ASLAN and non-ASLAN. (R)
35		Alarms for ASLAN and non-ASLAN. (R)
36		Reporting for ASLAN and non-ASLAN. (R)
37	Redundancy	Redundant Power Supplies. (required on standalone redundant products)
38		Chassis Failover. (required on standalone redundant products)
39		Switch Fabric Failover. (required on standalone redundant products)
40		Non-LACP Link Failover. (R)
41		Fiber Blade Failover. (R)
42		Stack Failover. (C) (required if the stack supports more than 96 users)
43		CPU (routing engine) blade Failover. (R)
44	MPLS	MPLS may not add measurable Loss or Jitter to system. (C)
45		MPLS conforms to RFCs in Table 5.3.1-14. (C)
46		MPLS supports L2 and L3 VPNs. (C)
47	IPv6 Product Requirements: Dual Stack for IPv4 and IPv6 IAW RFC 4213 if routing functions are supported. (C)	5.3.5.4
48	IPv6 System Requirements	Support IPv6 IAW RFCs 2460 and 5095 if routing functions are supported. (C)
49		Support IPv6 packets over Ethernet IAW RFC 2464. (R)
50		Support MTU discovery IAW RFC 1981 if routing functions are supported. (R)
51		Support a minimum MTU of 1280 IAW RFCs 2460 and 5095. (C)
52		Shall support IPv6 addresses IAW RFC 4291. (R)
53		Shall support IPv6 scoped addresses IAW RFC 4007. (R)
54		If routing functions are supported: If DHCP is supported, it must be IAW RFC 3315; if DHCPv6 is supported, it shall be IAW RFC 3313. (C)
55		IPv6 Router Advertisements
56	If the system supports routing functions, the system shall include the MTU value in the router advertisement message for all links IAW RFC 2461 and RFC 4861. (C)	
57	IPv6 Neighbor Discovery: The system shall not set the override flag bit in the neighbor advertisement message for solicited advertisements for anycast addresses or solicited proxy advertisements. (R)	

Table 3. SUT Capability and Functional Requirements (continued)

ID	Requirement (See note 1.)		UCR Reference
58	IPv6 Neighbor Discovery	If routing functions are supported: Neighbor Discovery IAW RFCs 2461 and 4861. (C)	5.3.5.4.5
59		The system shall not set the override flag bit in the neighbor advertisement message for solicited advertisements for anycast addresses or solicited proxy advertisements. (R)	
60		The system shall set the override flag bit in the neighbor advertisement message to "1" if the message is not an anycast address or a unicast address for which the system is providing proxy service. (R)	
61	IPv6 SLAAC and Manual Address Assignment	If the system supports stateless IP address Auto-configuration, the system shall support IPv6 SLAAC for interfaces supporting UC functions IAW RFC 2462 and RFC 4862. (C)	5.3.5.4.6
62		If the product supports IPv6 SLAAC, the product shall have a configurable parameter that allows the function to be enabled and disabled. (C)	
63		If the product supports IPv6 SLAAC, the product shall have a configurable parameter that allows the "managed address configuration" flag and the "other stateful" flag to always be set and not perform stateless auto-configuration. (C)	
64		If the product supports stateless IP address auto-configurations, including those provided for the commercial market, the DAD shall be disabled IAW RFC 2462 and RFC 4862. (R)	
65		The system shall support manual assignment of IPv6 addresses. (R)	
66		If the system provides routing functions, the system shall default to using the "managed address configuration" flag and the "other stateful" flag set to TRUE in the router advertisements when stateful auto-configuration is implemented. (C)	
67	IPv6 ICMP	The system shall support the ICMPv6 as described in RFC 4443. (R)	5.3.5.4.7
68		The system shall have a configurable rate limiting parameter for rate limiting the forwarding of ICMP messages. (R)	
69		The system shall support the capability to enable or disable the ability of the system to generate a Destination Unreachable message in response to a packet that cannot be delivered to its destination for reasons other than congestion. (R) Required if LS supports routing functions.	
70		The system shall support the enabling or disabling of the ability to send an Echo Reply message in response to an Echo Request message sent to an IPv6 multicast or anycast address. (R)	
71		The system shall validate ICMPv6 messages, using the information contained in the payload, prior to acting on them. (R)	
72	IPv6 Routing Functions	If the system supports routing functions, the system shall support the OSPF for IPv6 as described in RFC 5340. (C)	5.3.5.4.8
73		If the system supports routing functions, the system shall support securing OSPF with IPsec as described for other IPsec instances in UCR 2008, Section 5.4. (C)	
74		If the system supports routing functions, the system shall support OSPF for IPv6 as described in RFC 2740, router-to-router integrity using an IP authentication header with HMAC-SHA1-96 with ESP and AH as described in RFC 2404, and shall support OSPFv3 IAW RFC 4552. (C)	
75		If the system supports routing functions, the system shall support the MLD process as described in RFC 2710 and extended in RFC 3810. (C)	
76	Site Requirements	Engineering Requirements: Physical Media for ASLAN and non-ASLAN (R) (Site requirement)	5.3.1.7.1
77		Battery back-up: 2 hours for non-ASLAN components and 8 hours for ASLAN components. (R) (Site requirement)	5.3.1.7.5
78		Availability of 99.999% (Special C2), 99.997% (C2) for ASLAN (R), and 99.9% (non-C2 and C2(R)) for non-ASLAN. (R) (Site requirement)	5.3.1.7.6
79	IA Security Requirements	Port-Based Access Control IAW IEEE 802.1x and 802.3x. (R)	5.3.1.3.2
80		Secure methods for network configuration: SSH2 instead of Telnet and support RFCs 4251-4254. Must use HTTPS instead of HTTP and support RFCs 2660 and 2818 for ASLAN and non-ASLAN. (R)	5.3.1.6
81		Security. (R)	5.3.1.3.8
82		Must meet IA requirements IAW UCR 2008 Section 5.4 for ASLAN and non-ASLAN. (R)	5.3.1.5

NOTES:

- All requirements are for core, distribution, and access layer components unless otherwise specified.
- The Layer 2 switch is required to support only RFCs 2460, 5095, and 2464, and it must be able to queue packets based on DSCPs in accordance with (IAW) RFC 2474.
- Layer 2 switch is required to support RFC 2474 only.

Table 3. SUT Capability and Functional Requirements (continued)

LEGEND:					
802.1D	Spanning-Tree Protocol	DHCPv6	Dynamic Host Configuration Protocol for IPv6	LS	LAN Switch
802.1Q	Virtual LANs			Mbps	Megabits per second
802.1s	Multiple Spanning Trees	DISR	Department of Defense Information Technology Standards Registry	MLD	Multicast Listener Discovery
802.1w	Rapid Reconfiguration of Spanning Tree			MPLS	Multiprotocol Label Switching
802.3ab	1000BaseT Gbps Ethernet over twisted pair at 1 Gbps (125 Mbps)	DSCP	Differentiated Services Code Point	ms	millisecond
				MTU	Maximum Transmission Unit
802.3ad	Link Aggregation Control Protocol	E2E	End-to-End	NA	Not Applicable
		ESP	Encapsulating Security Payload	OSPF	Open Shortest Path First
802.3i	10BaseT Mbps over twisted pair	HTTP	Hypertext Transfer Protocol	OSPFv3	Open Shortest Path First Version 3
802.3j	10BaseF Mbps over Fiber-Optic	HTTPS	Hyper Text Transfer Protocol, Secure	PHB	Per Hop Behavior
				PQ	Priority Queuing
802.3u	Standard for carrier sense multiple access with collision detection at 100 Mbps	IA	Information Assurance	R	Required
		IAW	in accordance with	RFC	Request for Comments
		ICMP	Internet Control Message Protocol	SLAAC	Stateless Auto Address Configuration
802.3z	Gigabit Ethernet Standard	ICMPv6	Internet Control Message Protocol for IPv6	SNMP	Simple Network Management Protocol
AES	Advanced Encryption Standard			SSH2	Secure Shell Version 2
AH	Authentication Header	ID	Identification	SUT	System Under Test
ASLAN	Assured Services Local Area Network	IEEE	Institute of Electrical and Electronics Engineers	TCI	Tag Control Information
C	Conditional	IP	Internet Protocol	UC	Unified Capabilities
C2	Command and Control	IPSec	Internet Protocol Security	UCR	Unified Capabilities Requirements
C2(R)	Command and Control ROUTINE only	IPv4	Internet Protocol version 4	VLAN	Virtual Local Area Network
		IPv6	Internet Protocol version 6	VPN	Virtual Private Network
CPU	Central Processing Unit	LACP	Link Aggregation Control Protocol	WFQ	Weighted Fair Queuing
DAD	Duplicate Address Detection				
DHCP	Dynamic Host Configuration Protocol	LAN	Local Area Network		

5. No detailed test report was developed in accordance with the Program Manager's request. JITC distributes interoperability information via the JITC Electronic Report Distribution (ERD) system, which uses Unclassified-But-Sensitive Internet Protocol Router Network (NIPRNet) e-mail. More comprehensive interoperability status information is available via the JITC System Tracking Program (STP). STP is accessible by .mil/gov users on the NIPRNet at <https://stp.fhu.disa.mil>. Test reports, lessons learned, and related testing documents and references are on the JITC Joint Interoperability Tool (JIT) at <http://jit.fhu.disa.mil> (NIPRNet). Due to the sensitivity of the information, the Information Assurance Accreditation Package (IAAP) that contains the approved configuration and deployment guide must be requested directly through government civilian or uniformed military personnel from the Unified Capabilities Certification Office (UCCO), e-mail: disa.meade.ns.list.unified-capabilities-certification-office@mail.mil. All associated data is available on the DISA UCCO website located at <http://www.disa.mil/Services/Network-Services/UCCO>.

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6. The JITC point of contact is CPT James Torres, DSN 879-5575, commercial (520) 538-5575, FAX DSN 879-4347, or e-mail to james.m.torres.mil@mail.mil. JITC's mailing address is P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The Tracking Number for the SUT is 1106703.

FOR THE COMMANDER:



for RICHARD A. MEADOR
Chief
Battlespace Communications Portfolio

Enclosure a/s

DISTRIBUTION (electronic mail):

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US Navy, OPNAV N2/N6FP12
US Army, DA-OSA, CIO/G-6 ASA(ALT), SAIS-IOQ
US Air Force, A3CNN/A6CNN
US Marine Corps, MARCORSYSCOM, SIAT, A&CE Division
US Coast Guard, CG-64
DISA/TEMC
DIA, Office of the Acquisition Executive
NSG Interoperability Assessment Team
DOT&E, Netcentric Systems and Naval Warfare
Medical Health Systems, JMIS IV&V
HQ USAISEC, AMSEL-IE-IS
UCCO

ADDITIONAL REFERENCES

- (c) Office of the Assistant Secretary of Defense, "Department of Defense Unified Capabilities Requirements 2008 Change 2," 31 December 2010
- (d) Joint Interoperability Test Command, "Defense Switched Network Generic Switch Test Plan (GSTP), Change 2," 2 October 2006
- (e) Joint Interoperability Test Command, Memo, JTE, "Special Interoperability Test Certification of the HP A12500 series Switch with release 5.20," 10 November 2011
- (f) U.S. Army Information Systems Engineering Command (HQUSAISEC), Technology Integration Center (TIC), "Information Assurance (IA) Assessment of HP A12500 (Tracking Number 1106703)," 7 October 2011