



## DEFENSE INFORMATION SYSTEMS AGENCY

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

**28 Oct 08**

### MEMORANDUM FOR DISTRIBUTION

**SUBJECT:** Special Interoperability Test Certification of the Polycom HDX 9000x Product Family, Running Software Version 2.0.5\_J for Internet Protocol Version 6 Capability

References: (a) DoDD 4630.5, "Interoperability and Supportability of Information Technology (IT) and National Security Systems (NSS)," 5 May 2004  
(b) CJCSI 6212.01D, "Interoperability and Supportability of Information Technology and National Security Systems," 8 March 2006  
(c) through (h), see enclosure 1

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

2. The Polycom HDX 9000x, running Software (SW) Version (V) 2.0.5\_J, has met the Internet Protocol (IP) Version 6 (IPv6) capable interoperability requirements of a network appliance as described in the Department of Defense (DoD) Information Technology Standards Registry, "DoD IPv6 Standard Profiles for IPv6 Capable Products Version 2.0," 1 August 2007, reference (c). The Polycom HDX 9000x running SW V 2.0.5\_J has successfully completed the related IPv6 Interoperability portions of the "DoD IPv6 Generic Test Plan (GTP) Version 3," August 2007, reference (d), and is certified for listing on the Unified Capabilities (UC) Approved Products List (APL) as IPv6 Capable. The Polycom HDX 9000x is of equivalent architecture to and therefore a representative sample of the Polycom HDX product family which includes the 8000x, 7000x, and 4000x. This certification expires upon changes that could affect interoperability, but no later than 3 years from the date of this memorandum.

3. This special certification is based on IPv6 Capable Interoperability testing conducted by JITC at Fort Huachuca, Arizona, and the vendor's Letter of Conformance (LoC) dated 16 May 2008. Interoperability testing was conducted from 8 through 19 September 2008, at JITC's Advanced IP Technology Capability. Conformance testing was confirmed by Polycom and was verified in the LoC provided. Enclosure 2 documents the summary test results and describes the devices. Users should verify interoperability before deploying the devices in an environment that varies significantly from that described.

4. The device's interoperability status summary is in table 1, and table 2 contains the equipment listing.

**Table 1. Interoperability Status Summary**

Polycom HDX 9000x		
Functional Category	Requirement	Verified
Base IPv6	M	Yes
IPSec	S+	Yes
Transition Mechanisms	S	Yes
Quality of Service	O	No
Mobility	CS	No
Bandwidth Limited Networks	O	No
Host	S	Yes
<b>LEGEND:</b> CS      Conditional Should      O      Optional IPSec    Internet Protocol Security      S      Should IPv6     Internet Protocol Version 6      S+     Should Plus M        Must		
<b>NOTE:</b> The terms Conditional Should, Must, Should, Should Plus, and Optional are used to reference specific required Request for Comments from the Internet Engineering Task Force, the Department of Defense Information Technology Standards Registry, and the Department of Defense Internet Protocol Version 6 Generic Test Plan.		

**Table 2. Equipment Listing**

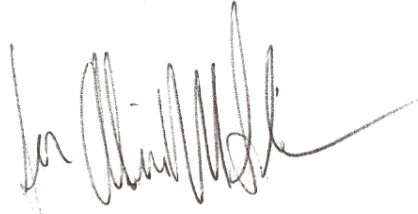
Polycom HDX 9000x		
Component	Firmware/Software	Interface
Polycom HDX 9000x	Software Version 2.0.5_J	RJ45/100Mbps
<b>LEGEND:</b> Mbps    Megabits Per Second      RJ      Registered Jack		

5. No detailed test report was written in accordance with the DoD IPv6 Transition Office. 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). The 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), or <http://199.208.204.125> (SIPRNet). Information related to IPv6 Capable testing is on the UC APL at [http://jitc.fhu.disa.mil/adv\\_ip/register/register.html](http://jitc.fhu.disa.mil/adv_ip/register/register.html).

JITC Memo, JTE, Special Interoperability Test Certification of the Polycom HDX 9000x Product Family, Running Software Version 2.0.5\_J for Internet Protocol Version 6 Capability

6. The JITC point of contact is Donald L. Hann, DSN 879-5130, commercial (520) 538-5130, or e-mail: don.hann@disa.mil.

FOR THE COMMANDER:



RICHARD A. MEADOR  
Chief  
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2 Enclosures a/s

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DITO, Defense Information Systems Agency (DISA), Attn: GE36, P.O. Box 4502, Arlington, VA 22204-4502  
Polycom, Attn Alan Alford, 6500 River Place Blvd, Building 6, Austin, TX 78730

## **ADDITIONAL REFERENCES**

- (c) Department of Defense (DoD) Information Technology Standards Registry (DISR), "DoD Internet Protocol Version 6 (IPv6) Standard Profiles for IPv6 Capable Products Version 2.0," 1 August 2007
- (d) Defense Information Systems Agency, Joint Interoperability Test Command, "DoD IPv6 Generic Test Plan Version 3," August 2007
- (e) DoD Chief Information Officer (CIO) Memorandum, "IPv6," 9 June 2003
- (f) DoD CIO Memorandum, "IPv6 Interim Transition Guidance," 29 September 2003
- (g) DoD IPv6 Transition Office, "DoD IPv6 Master Test Plan, Version 2," September 2006
- (h) DoD, "DISR Global Information Grid (GIG) Convergence Master Plan (GCMP), Version 5.25," 29 March 2006

## INTERNET PROTOCOL VERSION 6 CAPABLE TESTING SUMMARY

1. **SYSTEM TITLE.** The Polycom HDX 9000x, running Software (SW) Version (V) 2.0.5\_J, hereafter referred to as the device under test (DUT).
2. **PROPONENT.** Department of Defense (DoD) Internet Protocol (IP) Version 6 (IPv6) Transition Office (DITO).
3. **PROGRAM MANAGER/USER POC.** DITO, Defense Information Systems Agency (DISA), Attn: GE36 Sam Assi, P.O. Box 4502, Arlington, VA 22204-4502, (703) 882-0241, e-mail: sam.assi@disa.mil.
4. **TESTER.** Donald L. Hann, Joint Interoperability Test Command (JITC), P.O. Box 12798, Fort Huachuca, AZ 85670-2798, DSN: 879-5130, commercial: (520) 538-5130, e-mail: don.hann@disa.mil.
5. **DEVICE UNDER TEST DESCRIPTION.** The DUT was a network appliance that facilitates video teleconferencing.
6. **OPERATIONAL ARCHITECTURE.** The operational architecture was the JITC simulated Defense Information Systems Network (DISN) IP Core Network depicted in figure 2-1.
7. **REQUIRED DEVICE INTERFACES.** All IPv6-capable products to be included on the Unified Capabilities Approved Product List must meet the requirements of the DoD Information Technology Standards Registry (DISR), "DoD IPv6 Standard Profiles for IPv6 Capable Products Version 2.0," 1 August 2007. Product testing conducted against these requirements is in accordance with the "DoD IPv6 Generic Test Plan (GTP) Version 3," August 2007. The IPv6 network appliance profile requirements for conformance and interoperability are in table 2-1.



**Table 2-1. IPv6 Capability Requirements and Status**

Polycom HDX 9000x							
RFC	RFC Title	Testing Completed		Network Appliance		Implemented	Comments
		Conformance	Interoperability	Requirement	Met/Not Met		
<b>IPv6 Base</b>							
2460	Internet Protocol version 6 (IPv6) Specification	Stated in LoC	Yes	M	Met	Yes	
4443	Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification	Stated in LoC	Yes	M	Met	Yes	
2461	Neighbor Discovery for IP version 6 (IPv6)	Stated in LoC	Yes	M	Met	Yes	
1981	Path Maximum Transmission Unit Discovery for IPv6	Not Stated	Not Tested	S	Not Tested	No	
2462	IPv6 Stateless Address Auto configuration	Stated in LoC	Yes	M	Met	Yes	Note 1
3315	DHCPv6 (Client)	Not Stated	Not Tested	M	Not Tested	No	Note 1
4291	IPv6 Addressing Architecture	Stated in LoC	Yes	M	Met	Yes	
4007	IPv6 Scoped Address Architecture	Stated in LoC	Yes	M	Met	Yes	
4193	Unique Local IPv6 Unicast Addresses	Stated in LoC	Yes	M	Met	Yes	
2710	Multicast Listener Discovery (MLD)	Stated in LoC	Yes	M	Met	No	
3810	Multicast Listener Discovery Version 2 (MLDv2) for IPv6	Not Stated	Not Tested	S	Not Tested	No	
2464	Transmission of IPv6 Packets over Ethernet Networks	Stated in LoC	Yes	CM	Not Tested	Yes	
<b>IPSec</b>							
4301	Security Architecture for the Internet Protocol	Not Stated	Not Tested	S+	Not Tested	No	
4302	IP Authentication Header	Not Stated	Not Tested	S	Not Tested	No	
4303	IP Encapsulating Security Payload (ESP)	Not Stated	Not Tested	S+	Not Tested	No	
4304	Extended Sequence Number (ESN) Addendum to IPsec Domain of Interpretation (DOI) for Internet Security Association and Key Management Protocol (ISAKMP)	Not Stated	Not Tested	S	Not Tested	No	
4305	Cryptographic Algorithm Implementation Requirements for Encapsulating Security Payload (ESP) and Authentication Header (AH)	Not Stated	Not Tested	S+	Not Tested	No	
4869	Suite B Cryptographic Suites for IPsec	Not Stated	Not Tested	S+	Not Tested	No	
4309	Using Advanced Encryption Standard (AES) CCM Mode with IPsec Encapsulating Security Payload (ESP)	Not Stated	Not Tested	CS	Not Tested	No	

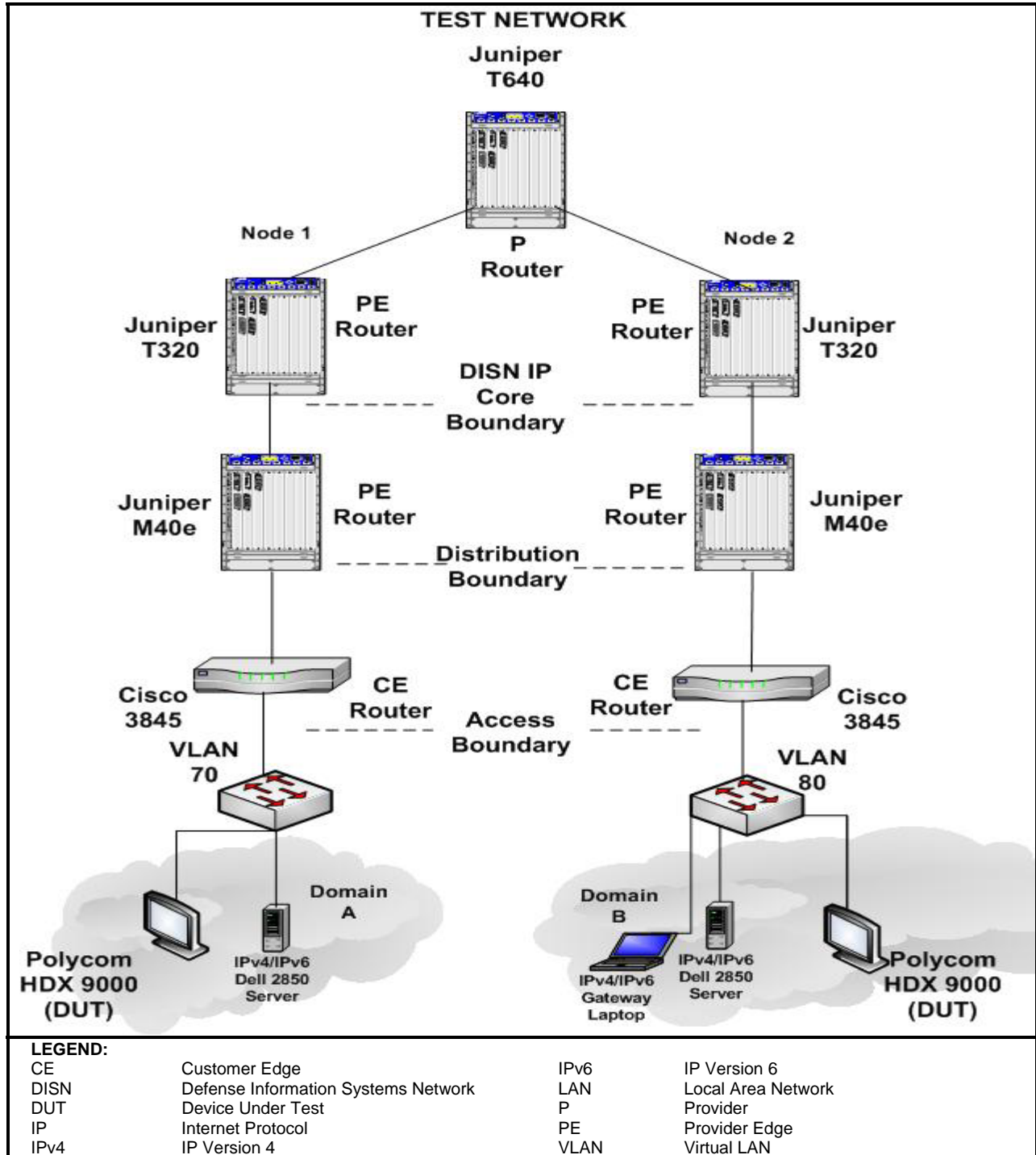
**Table 2-1. IPv6 Capability Requirements and Status (continued)**

<b>Polycom HDX 9000x</b>							
<b>RFC</b>	<b>RFC Title</b>	<b>Testing Completed</b>		<b>Network Appliance</b>		<b>Implemented</b>	<b>Comments</b>
		<b>Conformance</b>	<b>Interoperability</b>	<b>Requirement</b>	<b>Met/Not Met</b>		
3971	Secure Neighbor Discovery	Not Stated	Not Tested	S	Not Tested	No	
3972	Cryptographically Generated Addresses	Not Stated	Not Tested	S	Not Tested	No	
3041	Privacy Extensions for Stateless Address Auto configuration in IPv6	Stated in LoC	Yes	S	Met	Yes	
4306	Internet Key Exchange (IKEv2) Protocol	Not Stated	Not Tested	S+	Not Tested	No	
4307	Cryptographic Algorithms for Internet Key Exchange Version 2 (IKEv2)	Not Stated	Not Tested	S+	Not Tested	No	
<b>Transition Mechanisms</b>							
4213	Transition Mechanisms for IPv6 Host and Routers	Stated in LoC	Yes	S	Met	Yes	
2766	Network Address Translation – Protocol Translation (NAT-PT)	Not Stated	Not Tested	SN	Not Tested	No	
3053	IPv6 Tunnel Broker	Not Stated	Not Tested	CS	Not Tested	No	
<b>QoS</b>							
2474	Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers	Not Stated	Not Tested	O	Not Tested	No	
2205	Resource ReSerVation Protocol (RSVP) – Version 1 Functional Specification	Not Stated	Not Tested	O	Not Tested	No	
2207	RSVP Extensions for IPSEC Data Flows	Not Stated	Not Tested	O	Not Tested	No	
2210	The Use of RSVP with IETF Integrated Services	Not Stated	Not Tested	O	Not Tested	No	
2750	RSVP Extensions for Policy Control	Not Stated	Not Tested	O	Not Tested	No	
3175	Aggregation of RSVP for IPv4 and IPv6 Reservations	Not Stated	Not Tested	O	Not Tested	No	
<b>Mobility</b>							
3775	Mobility Support in IPv6	Not Stated	Not Tested	CS	Not Tested	No	
4282	The Network Address Identifier	Not Stated	Not Tested	CS	Not Tested	No	
4283	Mobile Node Identifier for Option for IPv6	Not Stated	Not Tested	CS	Not Tested	No	
<b>Bandwidth Limited Networks</b>							
3095	Robust Header Compression (RoHC)	Not Stated	Not Tested	O	Not Tested	No	
3241	RoHC over PPP	Not Stated	Not Tested	O	Not Tested	No	
3843	RoHC: A Compression Profile for IP	Not Stated	Not Tested	O	Not Tested	No	
4362	RoHC: A Link-Layer Assisted Profile for IP/UDP/RTP	Not Stated	Not Tested	O	Not Tested	No	
2507	IP Header Compression	Not Stated	Not Tested	O	Not Tested	No	
2508	Compressing IP/UDP/RTP Headers for Low-Speed Serial Links	Not Stated	Not Tested	O	Not Tested	No	

**Table 2-1. IPv6 Capability Requirements and Status (continued)**

Polycom HDX 9000x																																																															
RFC	RFC Title	Testing Completed		Network Appliance		Implemented	Comments																																																								
		Conformance	Interoperability	Requirement	Met/Not Met																																																										
<b>Host</b>																																																															
3484	Default Address Selection for IPv6	Stated in LoC	Yes	S	Met	Yes																																																									
3596	DNS Extensions to Support IPv6	Stated in LoC	Yes	S	Met	Yes																																																									
3986	Uniform Resource Identifier (URI): Generic Syntax	Stated in LoC	Yes	S	Met	Yes	Note 2																																																								
<p><b>LEGEND:</b></p> <table> <tr> <td>CBC</td> <td>Cipher Block Chaining</td> <td>M</td> <td>Must</td> </tr> <tr> <td>CCM</td> <td>CBC MAC Mode</td> <td>MAC</td> <td>Message Authentication Code</td> </tr> <tr> <td>CM</td> <td>Conditional Must</td> <td>O</td> <td>Optional (May)</td> </tr> <tr> <td>CS</td> <td>Conditional Should</td> <td>PPP</td> <td>Point-to-Point Protocol</td> </tr> <tr> <td>DHCPv6</td> <td>Dynamic Host Configuration Protocol Version 6</td> <td>QoS</td> <td>Quality of Service</td> </tr> <tr> <td>DNS</td> <td>Domain Name Service</td> <td>RFC</td> <td>Request for Comment</td> </tr> <tr> <td>DoD</td> <td>Department of Defense</td> <td>RoHC</td> <td>Robust Header Compression</td> </tr> <tr> <td>HTTP</td> <td>Hypertext Transfer Protocol</td> <td>RSVP</td> <td>Resource ReSerVation Protocol</td> </tr> <tr> <td>IETF</td> <td>Internet Engineering Task Force</td> <td>RTP</td> <td>Real-Time Transport Protocol</td> </tr> <tr> <td>IP</td> <td>Internet Protocol</td> <td>S</td> <td>Should</td> </tr> <tr> <td>IPSec</td> <td>Internet Protocol Security</td> <td>S+</td> <td>Should+</td> </tr> <tr> <td>IPv4</td> <td>Internet Protocol Version 4</td> <td>SN</td> <td>Should Not</td> </tr> <tr> <td>IPv6</td> <td>Internet Protocol Version 6</td> <td>SLAAC</td> <td>Stateless Address Auto-configuration</td> </tr> <tr> <td>LoC</td> <td>Letter of Conformance</td> <td>UDP</td> <td>User Datagram Protocol</td> </tr> </table> <p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>1. The device must implement one of the automatic configuration mechanisms SLAAC or DHCPv6.</li> <li>2. The device is designed to transfer only the HTTP and Telnet protocols identified in the RFC.</li> <li>3. The terms Must, Conditional Must, Should, Should Plus, Conditional Should, Should Not, and Optional are used to reference specific required RFCs from the IETF, the DoD Information Technology Standards Registry, and the DoD IPv6 Generic Test Plan.</li> </ol>								CBC	Cipher Block Chaining	M	Must	CCM	CBC MAC Mode	MAC	Message Authentication Code	CM	Conditional Must	O	Optional (May)	CS	Conditional Should	PPP	Point-to-Point Protocol	DHCPv6	Dynamic Host Configuration Protocol Version 6	QoS	Quality of Service	DNS	Domain Name Service	RFC	Request for Comment	DoD	Department of Defense	RoHC	Robust Header Compression	HTTP	Hypertext Transfer Protocol	RSVP	Resource ReSerVation Protocol	IETF	Internet Engineering Task Force	RTP	Real-Time Transport Protocol	IP	Internet Protocol	S	Should	IPSec	Internet Protocol Security	S+	Should+	IPv4	Internet Protocol Version 4	SN	Should Not	IPv6	Internet Protocol Version 6	SLAAC	Stateless Address Auto-configuration	LoC	Letter of Conformance	UDP	User Datagram Protocol
CBC	Cipher Block Chaining	M	Must																																																												
CCM	CBC MAC Mode	MAC	Message Authentication Code																																																												
CM	Conditional Must	O	Optional (May)																																																												
CS	Conditional Should	PPP	Point-to-Point Protocol																																																												
DHCPv6	Dynamic Host Configuration Protocol Version 6	QoS	Quality of Service																																																												
DNS	Domain Name Service	RFC	Request for Comment																																																												
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IPv6	Internet Protocol Version 6	SLAAC	Stateless Address Auto-configuration																																																												
LoC	Letter of Conformance	UDP	User Datagram Protocol																																																												

**8. TEST NETWORK DESCRIPTION.** The DUT was tested as part of the JITC simulated DISN IP Core Network managed by the Advanced IP Technology Capability, and configured as shown in figure 2-2.



**Figure 2-2. Test Network**

**9. DEVICE CONFIGURATIONS.** Table 2-2 provides hardware and software components used in the test network.

**Table 2-2. Test Configuration Hardware and Software**

Equipment Name	Model Number	IOS/OS/Version(s)	
<b>Hardware</b>			
2 Polycom - DUT	HDX 9000x	Version 2.0.5_J	
2 Cisco Routers	Cisco 3845	12.4(11)T	
2 Juniper Routers	Juniper M40e	V 7.6R3.6	
2 Juniper Routers	Juniper T320	V 7.5R4.4	
Juniper Router	Juniper T640	V 7.5R4.4	
2 Dell Power Edge Servers	2850	MS 2003 Server SP 2	
Gateway Notebook	450ROG	MS Windows XP Professional SP 3	
<b>Software</b>			
MS Windows XP Professional	N/A	Build 5.1.2600 SP 3	
MS Windows Server 2003	N/A	Build 5.2.3790 SP 2	
Wireshark	N/A	V 0.99.2 (SVN Rev 18752)	
<b>LEGEND:</b>			
DUT	Device Under Test	Rev	Revision
IOS	Internetworking Operating System	SP	Service Pack
MS	Microsoft	SVN	Software Version Number
N/A	Not Applicable	T	New Technology
OS	Operating System	V	Version
R	Release		

**10. TEST LIMITATIONS.** None.

**11. TEST RESULTS**

**a. IPv6 Base.**

**Test Case C.1.2.** The Request for Comments (RFC) 2460 IPv6 Specification is the base specification of the IPv6 protocol. It specifies a number of parameters that enable successful completion of IPv6 traffic addressing and control. The Polycom HDX 9000x met the test requirement.

**Test Case C.1.3.** The RFC 2461 Neighbor Discovery for IPv6 specifies the neighbor discovery function that is similar to address resolution protocol in IP Version 4 (IPv4). It is necessary for implementing neighbor solicitations and neighbor advertisements within IPv6. The Polycom HDX 9000x met the test requirement.

**Test Case C.1.4.** The RFC 2462 IPv6 Stateless Address Auto-configuration specifies how a host auto-configures its interfaces in IPv6. These steps include determining whether the source addressing should be stateless or stateful, whether the information obtained should be solely the address or include other information, and Duplicate Address Detection. The Polycom HDX 9000x met the test requirement.

**Test Case C.1.5.** The RFC 2464 Transmission of IPv6 Packets over Ethernet Networks specifies the frame format for transmission of IPv6 link-local addresses and stateless auto-configured addresses on Ethernet networks. The Polycom HDX 9000x met the test requirement.

**Test Case C.1.8.** The RFC 2710 Multicast Listener Discovery for IPv6 specifies the protocol used by an IPv6 router to discover the presence of multicast listeners (i.e., nodes wishing to receive multicast packets) on its directly attached links, and to discover specifically which multicast addresses are of interest to those neighboring nodes. The Polycom HDX 9000x met the test requirement.

**Test Case C.1.11.** The RFC 4007 IPv6 Scoped Address Architecture defines the nature and characteristics for the usage of IPv6 addresses of different scopes. The Polycom HDX 9000x met the test requirement.

**Test Case C.1.12.** The RFC 4193 Unique Local IPv6 Unicast Addresses defines globally unique local addresses. Local IPv6 unicast addressing is intended to be used for local communications and is not expected to be routed to the Internet. The Polycom HDX 9000x met the test requirement.

**Test Case C.1.13.** The RFC 4291 IPv6 Addressing Architecture defines the specifications for the addressing architecture of the IPv6 protocol. The definitions cover unicast addresses, anycast addresses, and multicast addresses. The Polycom HDX 9000x met the test requirement.

**Test Case C.1.14.** The RFC 4443 identifies Internet Control Message Protocol messages for the IPv6 protocol. It includes message format and identifies two types of messages: error and informational. The Polycom HDX 9000x met the test requirement.

## **b. IP Security**

**Test Case C.3.7.** The RFC 3041 addresses the embedding of non-changing interface identifiers within IPv6 addresses and describes extensions to stateless address auto-configuration. This test is used to determine if the DUT can create a proper auto-configured address using the standard identified by the RFC. The Polycom HDX 9000x met the test requirement.

## **c. Transition Mechanisms.**

**Test Case C.3.18.** The RFC 4213 specifies IPv4 compatibility mechanisms that can be implemented by IPv6 hosts and routers. The test is used to determine if the DUT interoperates utilizing dual stack techniques. The Polycom HDX 9000x met the test requirement.

**d. Host.**

**Test Case C.3.12.** The RFC 3484 describes two algorithms, one for source address selection, and one for destination address selection. The test is intended to determine if the DUT can select the proper source and destination address to communicate with a host. The Polycom HDX 9000x met the test requirement.

**Test Case C.3.13.** The RFC 3596 defines the changes that need to be made to the Domain Name System (DNS) to support hosts running IPv6. The test is used to determine if a DUT can interoperate utilizing DNS for fully qualified Domain Name resolution to IPv6 addresses. The Polycom HDX 9000x met the test requirement.

**Test Case C.3.17.** The RFC 3986 describes Uniform Resource Identifier (URI) syntax and semantics and is derived from concepts introduced by the World Wide Web global information initiative. This test confirms that the DUT can properly use URI described in the RFC. The Polycom HDX 9000x met the test requirement.

**e. Conclusion.** The Polycom HDX 9000x, running SW V 2.0.5\_J, met all the required RFCs.

**12. TEST AND ANALYSIS REPORT.** No detailed test report was written in accordance with the DITO. All test data is maintained in the Advanced IP Technology Capability and is available upon request. This certification is available on the Joint Interoperability Tool (JIT). The JIT homepage is <http://jit.fhu.disa.mil> (NIPRNet), or <http://199.208.204.125/> (SIPRNet). The JIT has links to JITC interoperability documents to provide the DoD community, including the warfighter in the field, easy access to the latest interoperability information. System interoperability status information is available via the JITC System Tracking Program (STP). The STP is accessible by .mil/.gov users on the NIPRNet at: <https://stp.fhu.disa.mil/>.