



DEFENSE INFORMATION SYSTEMS AGENCY

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

25 Mar 09

MEMORANDUM FOR DISTRIBUTION

SUBJECT: Special Interoperability Test Certification of the Integrated Dell Remote Access Controller 6 - Express and Enterprise, Running the Dell Controller Firmware Version 1.0.36 on the Dell PowerEdge R710 Family of Servers 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 6212.01E, "Interoperability and Supportability of Information Technology and National Security Systems," 15 December 2008
(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 Integrated Dell Remote Access Controller 6 (iDRAC 6) - Express and Enterprise, running the Dell Controller Firmware (CFW) Version 1.0.36 on the Dell PowerEdge R710 server, met the Internet Protocol (IP) Version 6 (IPv6) Capable interoperability requirements for a Simple Server as described in the Department of Defense (DoD) Information Technology Standards Registry, "DoD IPv6 Standard Profiles for IPv6 Capable Products Version 3.0," July 2008, reference (c). The iDRAC 6 - Express and Enterprise, running the Dell CFW Version 1.0.36 on the Dell PowerEdge R710 server 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 iDRAC 6 - Express and Enterprise runs on the family of Dell PowerEdge R710 servers, including the Dell PowerEdge R200, R210, T300, T310, R300, R310, R410, T410, R510, T610, R610, T710, R810, and R910 servers that were not tested. JITC analysis determined that these members of the Dell PowerEdge R710 family of servers are functionally identical for certification purposes. Therefore, the iDRAC 6 - Express and Enterprise is also certified to run the CFW Version 1.0.36 on the Dell PowerEdge R200, R210, T300, T310, R300, R310, R410, T410, R510, T610, R610, T710, R810, and R910 servers. This certification expires upon changes that could affect interoperability, but no later than 4 years from the date of this memorandum.

JITC Memo, JTE, Special Interoperability Test Certification of the Integrated Dell Remote Access Controller 6 - Express and Enterprise, Running the Dell Controller Firmware Version 1.0.36 on the Dell PowerEdge R710 Family of Servers for Internet Protocol Version 6 Capability.

3. This special certification is based upon IPv6 Capable Interoperability testing conducted by JITC at Fort Huachuca, Arizona, and the vendor's Letters of Compliance (LoCs), dated 24 October 2008, and 6 January 2009. Interoperability testing commenced from 23 through 26 February 2009, at JITC's Advanced IP Technology Capability. Conformance testing was confirmed by Dell, and was verified in the LoCs provided. Enclosure 2 documents the summary test results and describes the device. 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

Dell iDRAC 6		
Functional Category	Requirement	Verified
IPv6 Base	M	Yes
IPSec	S+	No
Transition Mechanisms	S	No
Quality of Service	O	No
Mobility	CS	No
RoHC	O	No
Automatic Configuration	M	Yes
Server	O	No
Host	S	No
LEGEND: CS Conditional Should RoHC Robust Header Compression iDRAC 6 Integrated Dell Remote Access Controller 6 S Should IPSec Internet Protocol Security S+ Should Plus IPv6 Internet Protocol Version 6 O Optional M Must NOTE: The terms Must, Conditional Should, 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

Dell iDRAC 6		
Component	Firmware/Software	Interface
iDRAC 6	CFW 1.0.36	RJ45 Gigabit Ethernet
LEGEND: CFW Controller Firmware RJ Registered Jack iDRAC 6 Integrated Dell Remote Access Controller 6		

JITC Memo, JTE, Special Interoperability Test Certification of the Integrated Dell Remote Access Controller 6 - Express and Enterprise, Running the Dell Controller Firmware Version 1.0.36 on the Dell PowerEdge R710 Family of Servers for Internet Protocol Version 6 Capability.

5. 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.

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:



for RICHARD A. MEADOR
Chief
Battlespace Communications Portfolio

2 Enclosures a/s

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Dell Inc., Attn: Mr. Pete Korce, One Dell Way, RR5-30, Round Rock, TX 78682

ADDITIONAL REFERENCES

- (c) Department of Defense (DoD) Information Technology Standards Registry (DISR), "DoD IPv6 Standard Profiles for IPv6 Capable Products Version 3.0," July 2008
- (d) 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 Integrated Dell Remote Access Controller 6 (iDRAC 6) - Express and Enterprise, running the Dell Controller Firmware (CFW) Version 1.0.36 on the Dell PowerEdge R710 server, 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 is designed by Dell to be an advanced, out-of-band, systems management hardware and software solution that provides remote management capabilities, crashed system recovery, and power control functions for Dell PowerEdge servers.
- 6. OPERATIONAL ARCHITECTURE.** The operational architecture was the JITC simulated Defense Information Systems Network (DISN) IP Core Network as 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 3.0," July 2008. Product testing conducted against these requirements is in accordance with the "DoD IPv6 Generic Test Plan (GTP) Version 3," August 2007. The IPv6 Simple Server profile requirements for conformance and interoperability are in Table 2-1.

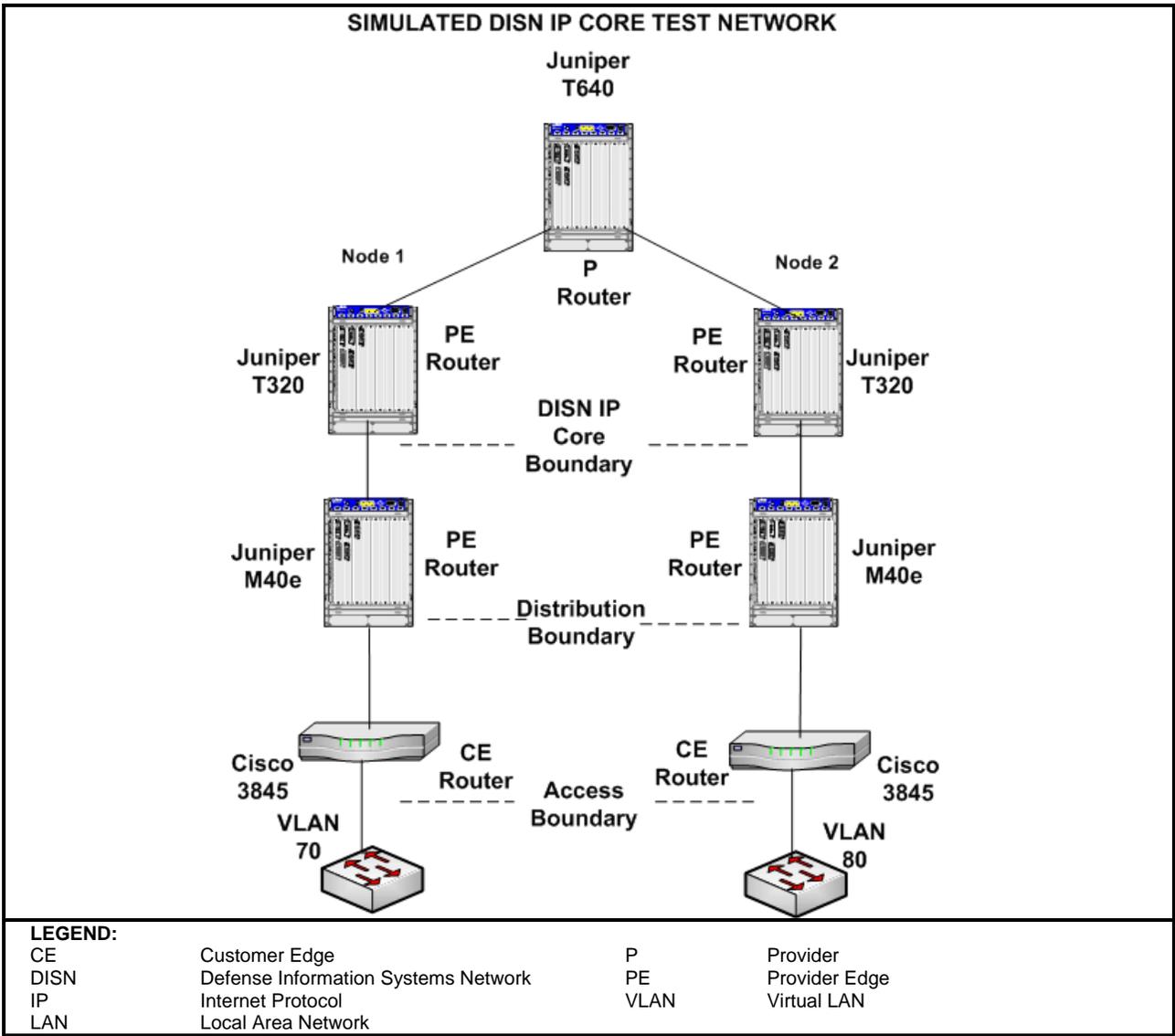


Figure 2-1. JITC Simulated DISN IP Core Network

Table 2-1. IPv6 Capability Requirements and Status

Dell iDRAC 6							
RFC	RFC Title	Testing Completed		Simple Server		Implemented	Comments
		Conformance	Interoperability	Requirement	Met/Not Met		
IPv6 Base							
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	
4861	Neighbor Discovery for IP version 6 (IPv6)	Stated in LoC	Yes	M	Met	Yes	
4862	IPv6 Stateless Address Auto configuration	Stated in LoC	Yes	M	Met	Yes	
1981	Path Maximum Transmission Unit Discovery for IPv6	Not Stated	Not Tested	S	Not Tested	No	
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	S	Met	Yes	
2710	Multicast Listener Discovery (MLD)	Stated in LoC	Yes	M	Met	Yes	
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	Met	Yes	Note 1
IPSec							
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	
4308	Cryptographic Suites for IPSec	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	
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	Not Stated	Not Tested	S	Not Tested	No	

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

Dell iDRAC 6							
RFC	RFC Title	Testing Completed		Simple Server		Implemented	Comments
		Conformance	Interoperability	Requirement	Met/Not Met		
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	
Transition Mechanisms							
4213	Transition Mechanisms for IPv6 Host and Routers	Not Stated	Not Tested	S	Not Tested	No	
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	
QoS							
2474	Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers	Not Stated	Not Tested	O	Not Tested	No	
3168	The Addition of Explicit Congestion Notification (ECN) to IP	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	
3181	Signaled Preemption Priority Policy Object	Not Stated	Not Tested	O	Not Tested	No	
2961	RSVP Refresh Overhead Reduction Extension	Not Stated	Not Tested	O	Not Tested	No	
4495	A Resource Reservation Protocol (RSVP) Extension for the Reduction of Bandwidth of a Reservation Flow	Not Stated	Not Tested	O	Not Tested	No	
2998	A Framework for Integrated Services Operation over DiffServ Networks	Not Stated	Not Tested	O	Not Tested	No	
2996	Format of the RSVP DCLASS Object	Not Stated	Not Tested	O	Not Tested	No	
2746	RSVP Operation Over IP Tunnels	Not Stated	Not Tested	O	Not Tested	No	
3182	Identity Representation for RSVP	Not Stated	Not Tested	O	Not Tested	No	
2872	Application and Sub Application Identity Policy Element for Use with RSVP	Not Stated	Not Tested	O	Not Tested	No	
2747	RSVP Cryptographic Authentication	Not Stated	Not Tested	O	Not Tested	No	
Mobility							
3775	Mobility Support in IPv6	Not Stated	Not Tested	CS	Not Tested	No	

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

Dell iDRAC 6							
RFC	RFC Title	Testing Completed		Simple Server		Implemented	Comments
		Conformance	Interoperability	Requirement	Met/Not Met		
3776	Using IPsec to Protect Mobile IPv6 Signaling Between Mobile Nodes and Home Agents	Not Stated	Not Tested	CS	Not Tested	No	
4877	Mobile IPv6 Operation with IKEv2 and the Revised IPsec Architecture	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	
RoHC							
3095	Robust Header Compression (RoHC)	Not Stated	Not Tested	O	Not Tested	No	
4815	Corrections and Clarification to RFC 3095	Not Stated	Not Tested	O	Not Tested	No	
4995	RoHC Framework	Not Stated	Not Tested	O	Not Tested	No	
4996	RoHC: A profile for TCP/IP	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	
3173	IP Payload Compression	Not Stated	Not Tested	O	Not Tested	No	
Automatic Configuration							
4862	IPv6 Stateless Address Auto configuration	Stated in LoC	Yes	M	Met	Yes	
3315	DHCPv6	Not Stated	Not Tested	CM	Not Tested	No	
3769	IPv6 Prefix Delegation	Not Stated	Not Tested	CM	Not Tested	No	
3633	IPv6 Prefix Options for DHCPv6	Not Stated	Not Tested	CM	Not Tested	No	
5175	Extensions to Router Advertisement Flags	Not Stated	Not Tested	CS+	Not Tested	No	
Server							
959	File Transfer Protocol	Not Stated	Not Tested	O	Not Tested	No	
2428	FTP Extensions for IPv6 and NAT	Not Stated	Not Tested	O	Not Tested	No	
2821	Simple Mail Transfer Protocol (SMTP)	Not Stated	Not Tested	O	Not Tested	No	
2911	Internet Printing Protocol	Not Stated	Not Tested	O	Not Tested	No	
3162	RADIUS (Remote Authentication dial-In User Service) and IPv6	Not Stated	Not Tested	O	Not Tested	No	
4330	Simple Network Time Protocol (SNTP)	Not Stated	Not Tested	O	Not Tested	No	
3226	DNS Security and IPv6 A6 Aware Server/Resolver Message Size Requirements	Not Stated	Not Tested	O	Not Tested	No	
3261	Session Initiation Protocol (SIP)	Not Stated	Not Tested	O	Not Tested	No	
3596	DNS Extensions to Support IPv6	Not Stated	Not Tested	O	Not Tested	No	
3053	IPv6 Tunnel Broker	Not Stated	Not Tested	O	Not Tested	No	

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

Dell iDRAC 6							
RFC	RFC Title	Testing Completed		Simple Server		Implemented	Comments
		Conformance	Interoperability	Requirement	Met/Not Met		
Host							
3484	Default Address Selection for IPv6	Not Stated	Not Tested	S	Not Tested	No	
3596	DNS Extensions to Support IPv6	Not Stated	Not Tested	S	Not Tested	No	
3986	Uniform Resource Identifier (URI): Generic Syntax	Not Stated	Not Tested	S	Not Tested	No	
LEGEND:							
CBC	Cipher Block Chaining		M		Must		
CCM	CBC MAC Mode		MAC		Message Authentication Code		
CM	Conditional Must		MIB		Management Information Base		
CS	Conditional Should		N/R		No Requirement		
CS+	Conditional Should+		NAT		Network Address Translation		
DHCPv6	Dynamic Host Configuration Protocol Version 6		O		Optional (May)		
DISR	DoD Information Technology Standards Registry		OSPF		Open Shortest Path First		
DNS	Domain Name Service		PPP		Point-to-Point Protocol		
DoD	Department of Defense		QoS		Quality of Service		
FTP	File Transfer Protocol		RFC		Request for Comment		
HMC	Hardware Management Console		RoHC		Robust Header Compression		
iDRAC 6	Integrated Dell Remote Access Controller 6		RSVP		Resource ReSerVation Protocol		
IETF	Internet Engineering Task Force		RTP		Real-Time Transport Protocol		
IKEv2	Internet Key Exchange Version 2		S		Should		
IP	Internet Protocol		SLAAC		Stateless Address Auto-configuration		
IPSec	Internet Protocol Security		SN		Should Not		
IPv4	Internet Protocol Version 4		S+		Should+		
IPv6	Internet Protocol Version 6		UDP		User Datagram Protocol		
LoC	Letter of Conformance						
NOTES:							
1. The device must be conformant to at least one of the Connection Technologies protocols.							
2. The terms Must, Conditional Must, Should, Should+, Conditional Should, 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.							

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.

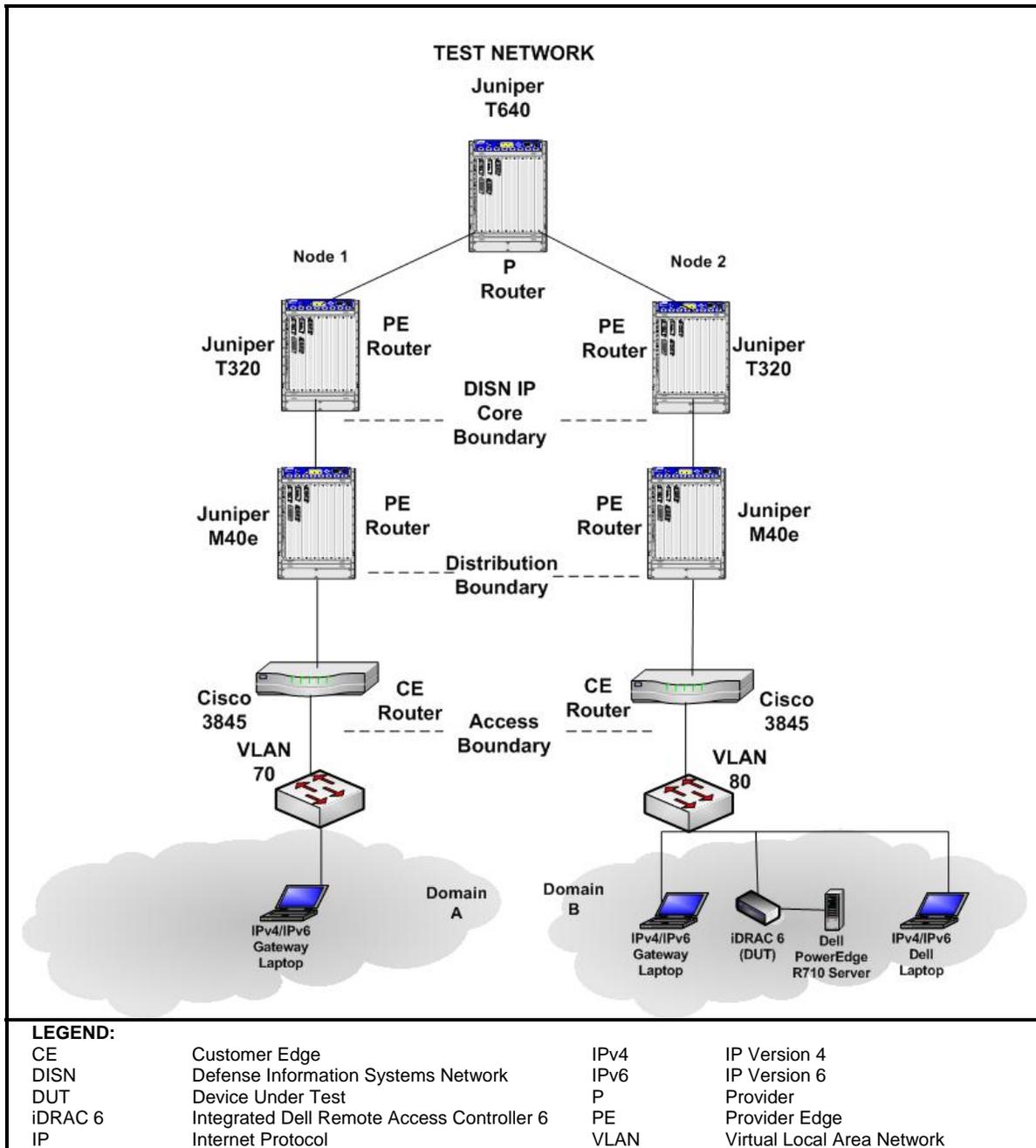


Figure 2-2. Test Network

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)	
Hardware			
Dell Integrated Remote Access Controller - DUT	iDRAC 6	CFW 1.0.36	
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 Gateway Notebooks	450ROG	MS Windows XP Professional SP 1	
Dell Notebook	Latitude	MS Windows XP Professional SP 3	
Software			
MS Windows XP Professional	N/A	Build 5.1.2600, SP 1	
MS Windows XP Professional	N/A	Build 5.1.2600, SP 3	
Wireshark	N/A	V 1.0.3 (SVN Rev 26134)	
LEGEND:			
CFW	Controller Firmware	Rev	Revision
DUT	Device Under Test	R	Release
iDRAC 6	Integrated Dell Remote Access Controller 6	SP	Service Pack
IOS	Internetworking Operating System	SVN	Software Version Number
MS	Microsoft	T	New Technology
N/A	Not Applicable	V	Version
OS	Operating System		

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 Dell iDRAC 6 met the test requirement.

Test Case C.1.14. The RFC 4443 Internet Control Message Protocol (ICMP) for the IPv6 specification identifies ICMP messages for the IPv6 protocol. It includes message format and identifies two types of messages: error and informational. The Dell iDRAC 6 met the test requirement.

Test Case C.1.3. The RFC 4861 Neighbor Discovery for IPv6 specifies the neighbor discovery function that is similar to address resolution protocol in IP Version 4. It is necessary for implementing neighbor solicitations and neighbor advertisements within IPv6. The Dell iDRAC 6 met the test requirement.

Test Case C.1.4. The RFC 4862 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 whether Duplicate Address Detection identifies duplicate addresses on the network, and then issues a new address accordingly. The Dell iDRAC 6 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 Dell iDRAC 6 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 Dell iDRAC 6 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 Dell iDRAC 6 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 Dell iDRAC 6 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 statelessly auto-configured addresses on Ethernet networks. The Dell iDRAC 6 met the test requirement.

b. Conclusion. The Dell iDRAC 6 met all the required RFCs.

12. TEST AND ANALYSIS REPORT. 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/>.