



DEFENSE INFORMATION SYSTEMS AGENCY

P. O. BOX 549
FORT MEADE, MARYLAND 20755-0549

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

27 July 12

MEMORANDUM FOR DISTRIBUTION

SUBJECT: Extension of the Special Interoperability Test Certification of the Brocade NetIron Carrier Ethernet Router (CER)/Carrier Ethernet Switch (CES) Series from Release 5.1.01b to Release 5.3.00b

- References: (a) DoD Directive 4630.05, "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 (g), see Enclosure

- 1. References (a) and (b) establish the Joint Interoperability Test Command (JITC), as the responsible organization for interoperability test certification.
2. The Brocade NetIron NI-CER-2048CX-ADVPREM-AC Release 5.1.01 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) Distribution and Access Layer 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: 10000Base SX/LX and 10/100/1000BaseFX. The SUT meets the critical interoperability requirements set forth in Reference (c), using test procedures derived from Reference (d). The Brocade NetIron CER/CES Series switches listed in the UC APL Product Summary, Table 1, employ the same software and similar hardware as the SUT. JITC analysis determined these systems to be functionally identical to the SUT for interoperability certification purposes and they are also certified for joint use.

Table 1. UC APL Product Summary

Table with 7 columns: Component (See note.), Release, Sub-Component, and Certification Applicability (Core, Distribution, Access). Rows list various Brocade NetIron models and their certification status.

JITC Memo, JTE, Extension of the Special Interoperability Test Certification of the Brocade NetIron Carrier Ethernet Router (CER)/Carrier Ethernet Switch (CES) Series from Release 5.1.01b to Release 5.3.00b

Table 1. UC APL Product Summary (continued)

Component (See note.)	Release	Sub-Component	Certification Applicability		
			Core	Distribution	Access
Brocade NetIron NI-CER-2024F-ADVPREM-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CER-2024F-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CER-2024F-ADVPREM-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CER-2048C-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CER-2048C-ADVPREM-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CER-2048C-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CER-2048C-ADVPREM-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CER-2048F-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CER-2048F-ADVPREM-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CER-2048F-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CER-2048F-ADVPREM-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CER-2048CX-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CER-2048CX-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CER-2048CX-ADVPREM-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CER-2048FX-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CER-2048FX-ADVPREM-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CER-2048FX-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CER-2048FX-ADVPREM-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CER-2024-2X10G	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CER-2024-ADVU	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CER-2048-ADVU	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CER-2024-ADVU-SW	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CER-2048-ADVU-SW	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2024C-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2024C-MEPREM-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2024C-L3PREM-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2024C-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2024C-MEPREM-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2024C-L3PREM-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2024F-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2024F-MEPREM-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2024F-L3PREM-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2024F-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2024F-MEPREM-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2024F-L3PREM-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2024-2x10G	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2024-MEU-SW	5.1.01b	N/A	No	Yes	Yes

JITC Memo, JTE, Extension of the Special Interoperability Test Certification of the Brocade NetIron Carrier Ethernet Router (CER)/Carrier Ethernet Switch (CES) Series from Release 5.1.01b to Release 5.3.00b

Table 1. UC APL Product Summary (continued)

Component (See note.)	Release	Sub-Component	Certification Applicability		
			Core	Distribution	Access
Brocade NetIron NI-CES-2024-L3U-SW	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048-MEU-SW	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048-L3U-SW	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048C-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048C-MEPREM-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048C-L3PREM-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048C-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048C-MEPREM-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048C-L3PREM-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048F-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048F-MEPREM-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048F-L3PREM-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048F-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048F-MEPREM-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048F-L3PREM-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048CX-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048CX-MEPREM-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048CX-L3PREM-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048CX-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048CX-MEPREM-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048CX-L3PREM-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048FX-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048FX-MEPREM-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048FX-L3PREM-AC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048FX-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048FX-MEPREM-DC	5.1.01b	N/A	No	Yes	Yes
Brocade NetIron NI-CES-2048FX-L3PREM-DC	5.1.01b	N/A	No	Yes	Yes

NOTE: The JITC tested the Brocade NetIron NI-CER-2048CX-ADVPREM-AC which is bolded and underlined. JITC is certifying the other listed components that are not bolded and underlined because they employ the same software and similar hardware as the SUT.

LEGEND:
APL Approved Products List
JITC Joint Interoperability Test Command
NI-CER/CES NetIron Carrier Ethernet Router (CER)/Carrier Ethernet Switch (CES)
UC Unified Capabilities

The SUT is certified to support Assured Services within an ASLAN. 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. 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.

JITC Memo, JTE, Extension of the Special Interoperability Test Certification of the Brocade NetIron Carrier Ethernet Router (CER)/Carrier Ethernet Switch (CES) Series from Release 5.1.01b to Release 5.3.00b

Testing of the SUT did not include video services or data applications; however, simulated preferred data, best effort data, voice, and video traffic was 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 the JITC. This certification expires upon changes that could affect interoperability, but no later than 2 May 2014, which is three years from the date the of the Unified Capabilities (UC) Approved Products List (APL) memorandum.

3. The extension of this certification is based on Desktop Review (DTR) 2. The original is based on interoperability testing conducted by JITC, review of the vendor's Letters of Compliance (LoC), and DISA CA Recommendation. Interoperability testing was successfully conducted by JITC, Fort Huachuca, Arizona, from 3 January through 4 March 2011 and documented in Reference (e). Review of the vendor's LoC was completed on 19 March 2011. The DISA CA provided a positive Recommendation on 4 April 2011 based on the security testing completed by DISA-led IA test teams and published in a separate report, Reference (f). This DTR request included the change of software from 5.1.01b to 5.3.00b to fix the processor failover discrepancy discovered during testing. JITC determined Verification and Validation (V&V) testing was required prior to approval. The V&V interoperability testing of the changes associated with this DTR was successfully verified from 10 through 13 July 2012. Therefore this DTR is approved by JITC and the SUT is now certified for joint use within the DISN with dual processors in a single chassis. The IA posture of this DTR did not change; therefore, the DISA CA approval date of 4 April 2011 remains the same.

4. Table 2 provides the SUT interface interoperability status and Table 3 provides the Capability Requirements (CR) and Functional Requirements (FR) status. The threshold Capability/Functional requirements for ASLAN components are established by Section 5.3.a of Reference (c) and were used to evaluate the interoperability of the SUT.

Table 2. SUT Interface Interoperability Status

Interface	Applicability		UCR 2008, Change 2 Reference	Threshold CR/FR Requirements (See note 1.)	Status	Remarks
	D	A				
10Base-X	C	C ²	5.3.1.3.1	1-6	Met	See note 3.
100Base-X	R	C ²	5.3.1.3.1	1-6	Met	
1000Base-X	R	C ²	5.3.1.3.1	1-6	Met	
10000Base-X	C	C	5.3.1.3.1	1-6	Met	
802.11a	C	C	5.3.1.3.1/5.3.1.7.2	1-6	Not Tested	See note 4.
802.11b	C	C	5.3.1.3.1/5.3.1.7.2	1-6	Not Tested	See note 4.
802.11g	C	C	5.3.1.3.1/5.3.1.7.2	1-6	Not Tested	See note 4.
802.11n	C	C	5.3.1.3.1/5.3.1.7.2	1-6	Not Tested	See note 4.
802.16	C	C	5.3.1.3.1/5.3.1.7.2	1-6	Not Tested	See note 4.

JITC Memo, JTE, Extension of the Special Interoperability Test Certification of the Brocade NetIron Carrier Ethernet Router (CER)/Carrier Ethernet Switch (CES) Series from Release 5.1.01b to Release 5.3.00b

Table 2. SUT Interface Interoperability Status (continued)

NOTES:			
1. The SUT high-level CR and FR ID numbers depicted in the Threshold CRs/FRs column can be cross-referenced in Table 2. These high-level CR/FR requirements refer to a detailed list of requirements provided in Enclosure 3.			
2. Distribution products must minimally support 100Base-X (802.3u) and 1000Base-X (802.3z). Access products must minimally support one of the following standards: 823.3i (10BaseT), 820.3j (10BaseF), 802.3u (100BaseTX/FX), 802.3z (1000BaseX), or 802.3ab (1000BaseT). Other rates and standards may be provided as conditional interfaces.			
3. JITC analysis determined that the 10baseT is identical to the 100baseT interface with the exception of line rate and it is also certified for joint use.			
4. The SUT does not support this interface. This interface is not required for a core, distribution, or access switch.			
LEGEND:			
A	Access	FR	Functional Requirement
C	Conditional	ID	Identification
CR	Capability Requirement	SUT	System Under Test
D	Distribution	UCR	Unified Capabilities Requirements

Table 3. SUT CRs and FRs Status

CR/FR ID	Capability/ Function	Applicability (See note 1.)	UCR Reference	Status	Remarks
1	General Performance Parameters				
	Performance Parameters	Required	5.3.1.3	Met	
	Port Interface Rates	Required	5.3.1.3.1	Met	
	Port Parameter Requirements	Required	5.3.1.3.2	Met	
	Class of Service Markings	Required	5.3.1.3.3	Met	
	VLAN Capabilities	Required	5.3.1.3.4	Met	
	Protocols	Required	5.3.1.3.5	Met	
	QoS Features	Required	5.3.1.3.6	Met	
	Network Monitoring	Required	5.3.1.3.7	Met	
	Security	Required	5.3.1.3.8	Met	See note 2.
2	E2E Performance Requirements				
	Voice Services	Required	5.3.1.4.1	Met	
	Video services	Required	5.3.1.4.2	Met	
	Data services	Required	5.3.1.4.3	Met	
3	NM Requirements				
	Configuration Control	Required	5.3.1.6.1	Met	
	Operational Changes	Required	5.3.1.6.2	Met	
	Performance Monitoring	Required	5.3.1.6.3	Met	
	Alarms	Required	5.3.1.6.4	Met	
	Reporting	Required	5.3.1.6.5	Met	
4	Engineering Requirements				
	Physical Media	Required	5.3.1.7.1	Site requirement	
	Traffic Engineering	Required	5.3.1.7.3	Site requirement	Configured with four queues, each set to 25% of total bandwidth.
	Availability	Required	5.3.1.7.6	Partially driven by topology	100% availability during test.
	Redundancy	Required	5.3.1.7.7	Met	

JITC Memo, JTE, Extension of the Special Interoperability Test Certification of the Brocade NetIron Carrier Ethernet Router (CER)/Carrier Ethernet Switch (CES) Series from Release 5.1.01b to Release 5.3.00b

Table 3. SUT CRs and FRs Status (continued)

CR/FR ID	Capability/ Function	Applicability (See note 1.)	UCR Reference	Status	Remarks																																																
5	MPLS																																																				
	MPLS Requirements	Conditional	5.3.1.8.4.1	Partially met	See note 3.																																																
	MPLS VPN Augmentation to VLANs	Conditional	5.3.1.8.4.2	Partially met	See note 3.																																																
6	IPv6 Requirements																																																				
	Product Requirements	Required	5.3.5.4	Partially met	See-note 3																																																
<p>NOTES:</p> <p>1. The annotation of 'required' refers to a high-level requirement category. The applicability of each sub-requirement is provided in Enclosure 3. The system under test does not need to provide conditional requirements. However, if a capability is provided, it must function according to the specified requirements.</p> <p>2. Refers to IA requirements for UCR 2008, Change 2, Section 5.4. Detailed IA requirements are included in Reference (f).</p> <p>3. The SUT met all the critical MPLS interoperability requirements with the following minor exceptions:</p> <p>a. Link failover exceeded 20 milliseconds. The SUT failed over from primary link to secondary link within 160-220 milliseconds. This was adjudicated by DISA on 25 October 2011 as having a critical operational impact with vendor POA&M to correct this discrepancy by 31 October 2012 with software version 5.4. The vendor submitted DTR2 to include software release 5.3.0b, which corrects this failover problem. JITC verified during V&V testing that the SUT processor failover now occurs with one second.</p> <p>b. Layer 3 VPNs do not support IPv6 Dual Stack requirements. This was adjudicated by DISA on 25 October 2011 with a minor impact. The vendor delivered a POA&M with the intent to correct this discrepancy by 30 April 2012 with software version 5.3.</p> <p>c. The following MPLS RFCs that were either not met or partially met by the SUT were adjudicated by DISA on 25 October 2011 with having a minor operational impact based on vendors POA&M and the fact that the SUT tested interoperable with other MPLS vendors with no discrepancies associated with these RFCs shortcomings.</p> <ul style="list-style-type: none"> - RFC 2685 (Non Compliant): SUT does support RFCs 4761 and 4762 for MPLS VPN capability. - RFC 3032 (Partial Compliant): SUT supports the encoding of label stack, support generating ICMP Messages for Labeled IP Packets, comply with processing the Time to Live Field, and support transporting MPLS unicast Labeled Packets over point to point protocol and LAN media. - RFC 3140 (Non Compliant): SUT does support DSCP via RFC 2474 and Per Hop Behavior via RFC 3270. The vendors behavior of mapping DSCP to the 8 hardware queues was interoperable with other MPLS vendors - RFC 3270 (Partial Compliant): SUT supports E-LSPs and not L-LSP's. - RFC 3443 (Partial Compliant): SUT only supports Penultimate Hop Popping (PHP) modes - RFC 4182 (Partial Compliant): SUT only supports the encoding of label stack, support generating ICMP Messages for Labeled IP Packets, processing the Time to Live Field, and transporting MPLS unicast Labeled Packets over PPP and LAN media <p>LEGEND:</p> <table border="0"> <tr> <td>CR</td> <td>Capability Requirement</td> <td>LSP</td> <td>Label Switched Path</td> </tr> <tr> <td>DISA</td> <td>Defense Information Systems Agency</td> <td>MPLS</td> <td>Multiprotocol Label Switching</td> </tr> <tr> <td>DTR</td> <td>Desktop Review</td> <td>NM</td> <td>Network Management</td> </tr> <tr> <td>E2E</td> <td>End-to-End</td> <td>POA&M</td> <td>Plan of Action and Milestones</td> </tr> <tr> <td>E-LSP</td> <td>EXP-inferred-PSC LSP</td> <td>QoS</td> <td>Quality of Service</td> </tr> <tr> <td>FR</td> <td>Functional Requirement</td> <td>RFC</td> <td>Request for Comment</td> </tr> <tr> <td>GMPLS</td> <td>Generalized Multiprotocol Label Switching</td> <td>SUT</td> <td>System Under Test</td> </tr> <tr> <td>IA</td> <td>Information Assurance</td> <td>UCR</td> <td>Unified Capabilities Requirements</td> </tr> <tr> <td>ICMP</td> <td>Internet Control Message Protocol</td> <td>VLAN</td> <td>Virtual Local Area Network</td> </tr> <tr> <td>ID</td> <td>Identification</td> <td>VPN</td> <td>Virtual Private Network</td> </tr> <tr> <td>IPv6</td> <td>Internet Protocol version 6</td> <td></td> <td></td> </tr> <tr> <td>L-LSP</td> <td>Label-only-inferred-PSC LSP</td> <td></td> <td></td> </tr> </table>						CR	Capability Requirement	LSP	Label Switched Path	DISA	Defense Information Systems Agency	MPLS	Multiprotocol Label Switching	DTR	Desktop Review	NM	Network Management	E2E	End-to-End	POA&M	Plan of Action and Milestones	E-LSP	EXP-inferred-PSC LSP	QoS	Quality of Service	FR	Functional Requirement	RFC	Request for Comment	GMPLS	Generalized Multiprotocol Label Switching	SUT	System Under Test	IA	Information Assurance	UCR	Unified Capabilities Requirements	ICMP	Internet Control Message Protocol	VLAN	Virtual Local Area Network	ID	Identification	VPN	Virtual Private Network	IPv6	Internet Protocol version 6			L-LSP	Label-only-inferred-PSC LSP		
CR	Capability Requirement	LSP	Label Switched Path																																																		
DISA	Defense Information Systems Agency	MPLS	Multiprotocol Label Switching																																																		
DTR	Desktop Review	NM	Network Management																																																		
E2E	End-to-End	POA&M	Plan of Action and Milestones																																																		
E-LSP	EXP-inferred-PSC LSP	QoS	Quality of Service																																																		
FR	Functional Requirement	RFC	Request for Comment																																																		
GMPLS	Generalized Multiprotocol Label Switching	SUT	System Under Test																																																		
IA	Information Assurance	UCR	Unified Capabilities Requirements																																																		
ICMP	Internet Control Message Protocol	VLAN	Virtual Local Area Network																																																		
ID	Identification	VPN	Virtual Private Network																																																		
IPv6	Internet Protocol version 6																																																				
L-LSP	Label-only-inferred-PSC LSP																																																				

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). 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).

JITC Memo, JTE, Extension of the Special Interoperability Test Certification of the Brocade NetIron Carrier Ethernet Router (CER)/Carrier Ethernet Switch (CES) Series from Release 5.1.01b to Release 5.3.00b

Information related to DSN testing is on the Telecom Switched Services Interoperability (TSSI) website at <http://jitc.fhu.disa.mil/tssi>. All associated data is available on the Defense Information Systems Agency Unified Capability Coordination Office (UCCO) website located at <http://www.disa.mil/ucco/>.

6. The JITC point of contact is Mr. Edward Mellon, DSN 879-5159, commercial (520) 538-5159, FAX DSN 879-4347, or e-mail to edward.a.mellon.civ@mail.mil. JITC's mailing address is P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The Tracking Number for the SUT is 1030602.

FOR THE COMMANDER:

Enclosure a/s


for RICHARD A. MEADOR
Chief
Battlespace Communications Portfolio

Distribution (electronic mail):

DoD CIO

Joint Staff J-6, JCS

USD(AT&L)

ISG Secretariat, DISA, JTA

U.S. Strategic Command, J665

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

HQUSAISEC, AMSEL-IE-IS

UCCO

ADDITIONAL REFERENCES

- (c) Office of the Assistant Secretary of Defense, "Department of Defense Unified Capabilities Requirements 2008, Change 1," 22 January 2010
- (d) Joint Interoperability Test Command, "ASLAN Component Test Plan (UCTP)," November 2010
- (e) Joint Interoperability Test Command, Memo, JTE, "Special Interoperability Test Certification of the Brocade NetIron Carrier Ethernet Router (CER)/Carrier Ethernet Switch (CES) Series Release 5.1.01," 27 April 2011
- (f) Joint Interoperability Test Command, "Information Assurance (IA) Assessment of Brocade Customer Edge Router Release (Rel.) 5.1.01b (Tracking Number 1030602)," 4 April 2011