



## DEFENSE INFORMATION SYSTEMS AGENCY

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

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

**1 Apr 13**

**SUBJECT:** Extension of the Special Interoperability Test Certification of the Cisco Catalyst 4500E Series with Supervisor Engine 7-E (Sup7-E) Switch Release IOS XE 3.3(1)SG

- References:
- (a) Department of Defense (DoD) Directive 4630.05, "Interoperability and Supportability of Information Technology (IT) and National Security Systems (NSS)," 5 May 2004
  - (b) Chairman, Joint Chiefs of Staff Instruction (CJCSI) 6212.01E, "Interoperability and Supportability of Information Technology and National Security Systems," 15 December 2008
  - (c) through (e), see Enclosure 1

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

2. The Cisco WS-C4500X-32SFP+ Switch Release IOS XE 3.3(1)SG is hereinafter referred to as the system under test (SUT). The SUT meets all of its critical IO 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 Layer 2/Layer 3 Access switch. However, there are restrictions on the SUT functioning as a certified Core or Distribution switch. These restrictions are discussed in the following tables within this memorandum. 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, 1000BaseT and 1000/10000BaseX for uplink. All of these interfaces were tested with the exception of the 10BaseT interface. JITC analysis determined that the 10BaseT interface is a low risk for certification based on the vendor's Letter of Compliance (LoC) to comply with the Institute of Electrical and Electronics Engineers (IEEE) 802.3i standard and the testing data collected at all other data rates. The SUT meets the critical IO requirements set forth in Reference (c), using test procedures derived from Reference (d).

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. Testing of the SUT did not include video services or data applications; however, simulated video traffic, preferred

JITC Memo, JTE, Extension of the Special Interoperability Test Certification of the Cisco Catalyst 4500E Series with Supervisor Engine 7-E (Sup7-E) Switch Release IOS XE 3.3(1)SG

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 JITC. This certification expires upon changes that affect IO but no later than three years from the date of the UC APL memorandum, 3 Dec 2012.

3. The extension of this certification is based upon Desktop Review (DTR) 2. The original certification is based on IO testing conducted by the United States Army Information Systems Engineering Command, Technology Integration Center (USAISEC TIC), review of the vendor's LoC, DISA adjudication of open test discrepancy reports (TDRs), and the DISA Certifying Authority (CA) Recommendation. The initial IO testing was conducted by the USAISEC TIC, Fort Huachuca, Arizona, from 7 May through 15 June 2012, as documented in Reference (e). Review of the vendor's LoC was completed on 17 July 2012. The DISA adjudication of outstanding TDRs was completed on 7 August 2012. The DISA CA provided a positive recommendation on 27 August 2012, based on the security testing completed by USAISEC TIC-led Information Assurance (IA) test teams. Those test results are published in a separate report, Reference (f). DTR2 was requested to add the Catalyst 4500X switch with software release IOS XE 3.3(1)SG to the certification as shown in Table 1 as an ASLAN Core, Distribution, and Access switch. The Cisco Catalyst 4500X is a new model of the Catalyst 4500 series that was developed around the Supervisor 7-E processor card, which was certified as part of the 4500E SUT. In reviewing the DTR, JITC and TIC personnel determined that IO Verification and Validation (V&V) testing would be required. The DTR2 IO testing was conducted by the USAISEC TIC, Fort Huachuca, Arizona, from 22 January through 23 January 2013. The 4500X was interoperability tested as a Core and Distribution switch with 1 and 10 Gigabit Ethernet data rates with no issues identified during the testing. The 4500X does not support 100Base-X. On 4 April 2013, DISA adjudicated this a minor impact because the requirement will be changed in the next version of UCR 2013. The requirement will state that core and distribution components shall support either a 1 GB or 100MB Ethernet interface. The IA posture of the 4500X is the same as that of the SUT, so the original CA approval date still applies. Therefore, JITC approves this DTR.

4. Table 1 provides a UC APL product summary. Table 2 provides the SUT interface IO status and Table 3 provides the Capability Requirements (CRs) and Functional Requirements (FRs) status. The threshold CRs/FRs for ASLAN components are established by Section 5.3.a of Reference (c) and were used to evaluate the IO of the SUT.

**Table 1. UC APL Product Summary**

Component <sup>1</sup>	Release	Sub-Component <sup>1</sup>	Certification Applicability		
			Core	Distribution	Access
<p><b><u>WS-C4507R+E</u></b>                      WS-C4503-E                      WS-C4506-E                      WS-C4507R-E                      WS-C4510R-E                      WS-C4510R+E</p> <p><b><u>WS-C4500X-32SFP+</u></b>,  <u>WS-C4500X-F-32SFP+</u>,  <u>WS-C4500X-40X-ES</u>,  <u>WS-C4500X-16SFP+</u>,  <u>WS-C4500X-F-16SFP+</u>,  <u>WS-4500X-24X-ES</u></p>	IOS XE 3.3.(1)SG	<p><b><u>WS-X45-Sup7-E, WS-X4712-SFP+E<sup>2</sup>, WS-X4748-RJ45V+E, WS-X4640-CSFP-E<sup>3</sup>, WS-X4606-X2-E<sup>4</sup>, WS-X4648-RJ45V+E, WS-X4548-RJ45V+, WS-X4748-RJ45-E, WS-X4748-UPOE+E, WS-X4648-RJ45-E, WS-X4548-GB-RJ45V, WS-X4548-GB-RJ45V, WS-X4624-SFP-E<sup>6</sup>, WS-X4612-SFP-E<sup>6</sup>, WS-X4248-FE-SFP<sup>6</sup>, WS-X4148-FX-MT<sup>6</sup>, WS-X4448-GB-SFP<sup>5,6</sup>, C4KX-NM-8SFP+<sup>7</sup></u></b></p>	Yes	Yes	Yes

**NOTES:**

- 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.
- The SUT complies with the Non-blocking requirement in the Performance Parameters IAW UCR 2008, Change 3, Section 5.3.1.3, Paragraph 1 and the QoS blocking factor features IAW UCR 2008, Change 3, Section 5.3.1.3.6, Paragraph 5b as an Access switch in all modes of operation. The SUT operated in the required 50-percent non-blocking mode on all interfaces for Core and Distribution layers with the following exception for module WS-X4712-SFP+E. Module WS-X4712-SFP+E only complies with these requirements for Core and Distribution when ports #3, #6, #9, and #12 are disabled, as described in the vendor's deployment guide. This limited the module to using eight of the available twelve 10Gbps interface.
- The SUT complies with the Non-blocking requirement in the Performance Parameters IAW UCR 2008, Change 3, Section 5.3.1.3, Paragraph 1 and the QoS blocking factor features IAW UCR 2008, Change 3, Section 5.3.1.3.6, Paragraph 5b as an Access switch in all modes of operation. The SUT operated in the required 50-percent non-blocking mode on all interfaces for Core and Distribution layers with the following exception for module WS-X4640-CSFP-E. Module WS-X4640-CSFP-E only complies with these requirements for a Core or Distribution layer switch when deployed with SFP. When deployed with SFP, the module is certified for use in the Core, Distribution, and Access layers. This module is 4:1 Non-blocking when deployed with CSFP, so this module is not certified for use in the Core and Distribution layers when deployed with CSFP.
- The SUT complies with the Non-blocking requirement in the Performance Parameters IAW UCR 2008, Change 3, Section 5.3.1.3, Paragraph 1 and the QoS blocking factor features IAW UCR 2008, Change 3, Section 5.3.1.3.6, Paragraph 5b as an Access switch in all modes of operation. The SUT operated in the required 50-percent non-blocking mode on all interfaces for Core and Distribution layers with the following exception for module WS-X4606-X2-E. Module WS-X4606-X2-E only complies with these requirements for Core and Distribution when ports #3 and #6 are disabled, as described in the vendor's deployment guide. This limited the module to using four of the available six 10Gbps interface.
- The SUT does not comply with the Core and Distribution 2:1 Non-blocking requirement in the Performance Parameters IAW UCR 2008, Change 3, Section 5.3.1.3, Paragraph 1 and the QoS blocking factor features IAW UCR 2008, Change 3, Section 5.3.1.3.6, Paragraph 5b for the following module: WS-X4448-GB-SFP. This module meets the Access requirement of 8:1 Non-blocking. DISA adjudicated this discrepancy as critical and this module is not certified for use in the Core and Distribution layers. This module is approved for use in the Access layer only.
- These modules are certified based upon test data collected during previous ASLAN certification test events, no changes to modules or hardware and no changes to the requirements since module s were last tested and certified.
- C4KX-NM-8SFP+: Catalyst 4500-X 10GE Network Module

**LEGEND:**

APL	Approved Products List	OS	Operating System
ASLAN	Assured Services Local Area Network	QoS	Quality of Service
CSFP	Compact SFP	SFP	Small Form Factor Pluggable
DISA	Defense Information Systems Agency	SUT	System Under Test
Gbps	Gigabits Per Second	TIC	Technology Integration Center
IAW	In Accordance With	UC	Unified Capabilities
IO	Interoperability	UCR	Unified Capabilities Requirements
IOS	Internetworking Operating System	USAISEC	U.S. Army Information Systems Engineering Command
JITC	Joint Interoperability Test Command		

**Table 2. SUT Interface Interoperability Status**

Interface	Applicability			UCR 2008, Change 3 Reference	Threshold CR/FR <sup>1</sup>	Status	Remarks
	Co	D	A				
Serial	C	C	C	5.3.1.3.9	1-4	Certified	The SUT met the CRs and FRs with the following standard: EIA-232.
10Base-X	C	C	R <sup>2</sup>	5.3.1.3.1	1-6	Certified <sup>3</sup>	The SUT met CRs and FRs with the following IEEE standard: 802.3i (10BaseT).
100Base-X	R <sup>5</sup>	R <sup>5</sup>	R <sup>2</sup>	5.3.1.3.1	1-6	Certified	The SUT met CRs and FRs with the following IEEE standard: 802.3u (100BaseT/F).
1000Base-X	R	R	R <sup>2</sup>	5.3.1.3.1	1-6	Certified	The SUT met CR and FRs with the following IEEE standards: 802.3ab (1000BaseT), 802.3z (1000Base-SX, 1000Base-LX).
10000Base-X	C	C	C	5.3.1.3.1	1-6	Certified	The SUT met CRs and FRs with the following IEEE standard: 802.3ae (10GBase-SR, 10GBase-LR).
802.11a	C	C	C	5.3.1.3.1/5.3.1.7.2	1-6	Not Supported <sup>4</sup>	N/A
802.11b	C	C	C	5.3.1.3.1/5.3.1.7.2	1-6	Not Supported <sup>4</sup>	N/A
802.11g	C	C	C	5.3.1.3.1/5.3.1.7.2	1-6	Not Supported <sup>4</sup>	N/A
802.11n	C	C	C	5.3.1.3.1/5.3.1.7.2	1-6	Not Supported <sup>4</sup>	N/A
802.16	C	C	C	5.3.1.3.1/5.3.1.7.2	1-6	Not Supported <sup>4</sup>	N/A

**NOTES:**

1. The SUT high-level CR and FR ID numbers depicted in the Threshold CRs/FRs column can be cross-referenced in Table 3. These high-level CR/FR requirements refer to a detailed list of requirements provided in Enclosure 3.
2. Core and Distribution products must minimally support 100Base-X (802.3u) and 1000Base-X (802.3z). Access products must minimally support one of the following standards: 802.3i (10BaseT), 802.3j (10BaseF), 802.3u (100BaseT/F), 802.3z (1000BaseF), or 802.3ab (1000BaseT). Other rates and standards may be provided as conditional interfaces.
3. The USAISEC TIC tested all these interfaces with the exception of the 10BaseT interface. JITC analysis determined that the 10BaseT interface is a low risk for certification based on the vendor's LoC to the IEEE 802.3i and the testing data collected at all other data rates.
4. The SUT does not support this interface. This interface is not required for a Core, Distribution, or Access switch.
5. The 4500X does not support 100BASE-X. On 4 April 2013, DISA adjudicated this a minor impact because the requirement will be changed in the next version of UCR 2013. The requirement will state that core and distribution components shall support either a 1 GB or 100MB Ethernet interface.

**Table 2. SUT Interface Interoperability Status (continued)**

<b>LEGEND:</b>	
802.3ab	1000BaseT Gbps Ethernet Over Twisted Pair at 1Gbps (125 Mbps)
802.3ae	10 Gbps Ethernet
802.3i	10BaseT Mbps Over Twisted Pair
802.3j	10 Mbps Over Fiber
802.3u	Standard for Carrier Sense Multiple Access with Collision Detection at 100 Mbps
802.3z	Gigabit Ethernet Standard
802.11/16	IEEE Wireless Standards
10BaseF	10 Mbps Ethernet Over Fiber
10BaseT	10 Mbps (Baseband Operation, Twisted Pair) Ethernet
10Base-X	10 Mbps Ethernet Over Fiber or Copper
100BaseF	100 Mbps Ethernet Over Fiber
100BaseT	100 Mbps (Baseband Operation, Twisted Pair) Ethernet
100Base-X	100 Mbps Ethernet Over Fiber or Copper
1000BaseF	1000 Mbps Ethernet Over Fiber
1000Base-LX	1000 Mbps Ethernet Over Fiber
1000Base-SX	1000 Mbps Ethernet Over Fiber
1000BaseT	1000 Mbps (Baseband Operation, Twisted Pair) Ethernet
1000Base-X	1000 Mbps Ethernet Over Fiber or Copper
1000Base-X	10000 Mbps Ethernet Over Fiber or Copper
10GBase-LR	10000 Mbps Ethernet Over Fiber
10GBase-SR	10000 Mbps Ethernet Over Fiber
A	Access
C	Conditional
Co	Core
CR	Capability Requirement
D	Distribution
EIA	Electronic Industries Alliance
EIA-232	Standard for Defining the Mechanical and Electrical Characteristics for Connecting Data Terminal Equipment (DTE) and Data Circuit-Terminating Equipment (DCE) Data Communications Devices
FR	Functional Requirement
Gbps	Gigabits Per Second
ID	Identification
IEEE	Institute of Electrical and Electronics Engineers
JITC	Joint Interoperability Test Command
LoC	Letter of Compliance
LR	Long Range Optics
LX	Single-Mode Fiber Optics
Mbps	Megabits Per Second
N/A	Not Applicable
R	Required
SR	Short Range Optics
SX	Multi-Mode Fiber Optics
SUT	System Under Test
TIC	Technology Integration Center
UCR	Unified Capabilities Requirements
USAISEC	U.S. Army Information Systems Engineering Command

**Table 3. SUT CRs and FRs Status**

CR/FR ID	Capability/Function	Applicability <sup>1</sup>	UCR 2008, Change 3 Reference	Status	Remarks
<b>1</b>	<b>General Performance Parameters</b>				
	Performance Parameters	Required	5.3.1.3	Partially Met <sup>2</sup>	
	Port Interface Rates	Required	5.3.1.3.1	Met <sup>8</sup>	
	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	Partially Met <sup>3</sup>	
	QoS Features	Required	5.3.1.3.6	Partially Met <sup>2</sup>	
	Network Monitoring	Required	5.3.1.3.7	Met	
Security	Required	5.3.1.3.8	Met		
<b>2</b>	<b>E2E Performance Requirements</b>				
	Voice Services	Required	5.3.1.4.1	Met <sup>4</sup>	
	Video Services	Required	5.3.1.4.2	Met <sup>4</sup>	
	Data Services	Required	5.3.1.4.3	Met <sup>4</sup>	
<b>3</b>	<b>NM Requirements</b>				
	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	
<b>4</b>	<b>Engineering Requirements</b>				
	Physical Media	Required	5.3.1.7.1	Met <sup>5</sup>	
	Wireless	Conditional	5.3.1.7.2	Not Tested <sup>6</sup>	
	Traffic Engineering	Required	5.3.1.7.3	Met <sup>5</sup>	
	Availability	Required	5.3.1.7.6	Met <sup>5</sup>	
	Redundancy	Required	5.3.1.7.7	Met <sup>5</sup>	
<b>5</b>	<b>MPLS</b>				
	MPLS Requirements	Conditional	5.3.1.8.4.1	Not Tested <sup>6</sup>	
	MPLS VPN Augmentation to VLANs	Conditional	5.3.1.8.4.2	Not Tested <sup>6</sup>	
<b>6</b>	<b>IPv6 Requirements</b>				
	Product Requirements	Required	5.3.5.4	Partially Met <sup>7</sup>	

**Table 3. SUT CRs and FRs Status (continued)**

<b>NOTES:</b>			
1. The annotation of “required” refers to a high-level requirement category. The applicability of each sub-requirement is provided in Enclosure 3. The SUT does not need to provide conditional requirements. However, if a capability is provided, it must function according to the specified requirements.			
2. The SUT complies with the Non-blocking requirement in the Performance Parameters IAW UCR 2008, Change 3, Section 5.3.1.3, Paragraph 1 and the QoS blocking factor features IAW UCR 2008, Change 3, Section 5.3.1.3.6, Paragraph 5b as an Access switch in all modes of operation listed in Table 1. The SUT operated in the required 50-percent non-blocking mode on all interfaces for Core and Distribution layers with the following exceptions:			
a. Module WS-X4712-SFP+E only complies with these requirements for Core and Distribution when ports #3, #6, #9, and #12 are disabled, as described in the vendor’s deployment guide. This limited the module to using eight of the available twelve 10Gbps interface.			
b. Module WS-X4640-CSFP-E only complies with these requirements for a Core or Distribution layer switch when deployed with SFP. When deployed with SFP, the module is certified for use in the Core, Distribution, and Access layers. This module is 4:1 Non-blocking when deployed with CSFP, so this module is not certified for use in the Core and Distribution layers when deployed with CSFP.			
c. Module WS-X4606-X2-E only complies with these requirements for Core and Distribution when ports #3 and #6 are disabled, as described in the vendor’s deployment guide. This limited the module to using four of the available six 10Gbps interface.			
3. The SUT does not comply with the IPv6 Protocol RFC 5798. DISA has adjudicated this discrepancy as having a minor operation impact and approved the vendor’s POA&M.			
4. This requirement was verified and met using simulated voice, video, and data traffic in an operational emulated environment to meet E2E requirements. The SUT must be deployed IAW deployment guide and engineering guidelines in UCR 2008, Change 3, Section 5.3.1.4.			
5. This requirement was met with the following stipulations: It is the site’s responsibility to configure the SUT in a manner which meets the engineering requirements listed in Section 11.2.d. of Enclosure 2, and that it does not create a single point of failure which could impact more than 96 C2 users.			
6. Wireless and MPLS were not tested and are not certified for joint use. Wireless and MPLS are conditional and; therefore, not required for a Core, Distribution, or Access switch.			
7. The SUT does not comply with IPv6 RFC 5798. DISA has adjudicated this discrepancy as having a minor operation impact and approved the vendor’s POA&M.			
8. The 4500X does not support 100Base-X. On 4 April 2013, DISA adjudicated this a minor impact because the requirement will be changed in the next version of UCR 2013. The requirement will state that core and distribution components shall support either a 1 GB or 100MB Ethernet interface.			
<b>LEGEND:</b>			
C2	Command and Control	MPLS	Multiprotocol Label Switching
CR	Capability Requirement	NM	Network Management
CSFP	Compact SFP	POA&M	Plan of Action and Milestones
DISA	Defense Information Systems Agency	QoS	Quality of Service
E2E	End-to-End	RFC	Request For Comment
FR	Functional Requirement	SFP	Small Form Factor Pluggable
Gbps	Gigabits Per Second	SUT	System Under Test
ID	Identification	UCR	Unified Capabilities Requirements
IAW	In Accordance With	VLAN	Virtual Local Area Network
IPv6	Internet Protocol Version 6	VPN	Virtual Private Network

5. In accordance with the Program Manager’s request, no detailed test report was developed. JITC distributes IO information via the JITC Electronic Report Distribution (ERD) system, which uses Unclassified-But-Sensitive Internet Protocol Router Network (NIPRNet) e-mail. More comprehensive IO status information is available via the JITC System Tracking Program (STP), which 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). Information related to DISN testing is on the Telecom Switched Services Interoperability (TSSI) website at <http://jitc.fhu.disa.mil/tssi>. All associated data is available on the DISA Unified Capability Coordination Office (UCCO) website located at <http://www.disa.mil/ucco/>. 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 from U.S. Government civilian or uniformed military personnel at the UCCO; e-mail: [disa.meade.ns.list.unified-capabilities-certificaion-office@mail.mil](mailto:disa.meade.ns.list.unified-capabilities-certificaion-office@mail.mil).

JITC Memo, JTE, Extension of the Special Interoperability Test Certification of the Cisco Catalyst 4500E Series with Supervisor Engine 7-E (Sup7-E) Switch Release IOS XE 3.3(1)SG

6. The testing point of contact Mr. James Hatch, DSN 821-2860, commercial (520) 533-2860, or email to [james.d.hatch12.civ@mail.mil](mailto:james.d.hatch12.civ@mail.mil). The JITC point of contact is Ms. Anita Mananquil, DSN 879-5164, commercial (520) 538-5165, FAX DSN 879-4347, commercial (520) 538-4347, or e-mail to [anita.l.mananquil.civ@mail.mil](mailto:anita.l.mananquil.civ@mail.mil). JITC's mailing address is P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The Tracking Number for the SUT is 1126910.

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

## **ADDITIONAL REFERENCES**

- (c) Office of the DoD Chief Information Officer, "Department of Defense Unified Capabilities Requirements 2008 (UCR 2008), Change 3," September 2011
- (d) Joint Interoperability Test Command, "ASLAN Component Test Plan (UCTP)," February 2012
- (e) Joint Interoperability Test Command, Memo, JTE, Cisco Catalyst 4500E Series with Supervisor Engine 7-E (Sup7-E) Switch Release IOS 3.3.(0)SG", 17 September 2012
- (f) U.S. Army Information Systems Engineering Command, Technology Integration Center (USAISEC TIC), "Information Assurance (IA) Assessment of Cisco Catalyst 4500E Series with Supervisor Engine 7-E (Tracking Number 1126910)," 3 August 2012