



## DEFENSE INFORMATION SYSTEMS AGENCY

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

**8 Jul 13**

### MEMORANDUM FOR DISTRIBUTION

**SUBJECT:** Extension of the Special Interoperability Test Certification of the Unique Communications Configuration Accounting Information Retrieval System (CAIRS) with Software Release 4.0

**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 Defense Information Systems Agency, Joint Interoperability Test Command (JITC), as the responsible organization for interoperability test certification.

2. The Unique Communications CAIRS with Software Release 4.0 is hereinafter referred to as the system under test (SUT). The SUT meets all of its critical interoperability requirements and is therefore certified for joint use within the Defense Information Systems Network (DISN) as a Customer Premises Equipment (CPE) Element Management System (EMS) with the Avaya Aura Communication Manager (CM) 6.x Local Session Controller (LSC) and Small End Office (SMEO) switches. The SUT is also certified for joint use with the Avaya Communication Server 2100 (CS2100) Multifunction Switch (MFS) Secure Voice Zone. Only the Work Order Processing and Response (WOPR)-Automatic Switch Interface (ASI) and Universal Collection Engine (UCE) were tested and are certified by the JITC. The SUT also offers the following applications that were not tested and are not certified by the JITC: Call Accounting, Web Work Order, Enhanced WEB 411, Unique Financial System, Unique Call Identification (UCID) 911, Morale Call Minder System, and Subscriber Portal. The SUT met the critical interoperability requirements set forth in References (c) and (d), using test procedures derived from Reference (e). No other configurations, features, or functions, except those cited within this memorandum, are certified by JITC. This certification expires upon changes that could affect interoperability, but no later than 3 October 2015, which is three years from the date of the original Unified Capabilities (UC) Approved Products List (APL) memorandum.

3. The extension of this certification is based upon Desktop Review (DTR) 2. The original certification, documented in Reference (f), is based on interoperability testing conducted by JITC, review of the vendor's Letters of Compliance (LoC), and DISA Certifying Authority (CA) Recommendation. Interoperability testing was conducted by JITC at the Global Information

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Grid Network Test Facility, Fort Huachuca, Arizona, from 13 through 17 February 2012. Review of the vendor’s LoC was completed on 25 May 2012. The DISA CA provided a positive recommendation on 1 June 2012 based on the security testing completed by DISA-led IA test teams and published in a separate report, Reference (g). This DTR was requested to include certification with the Avaya AS5300 Release 3.0 and Cisco Unified Communication Manager (UCM) Release 8.6 LSCs on the UC APL for Call Detail Record (CDR). There were no changes to the SUT software or hardware configuration. JITC analysis determined this DTR would require Verification and Validation (V&V) testing. JITC conducted testing for this DTR from 10 through 14 June 2013. The Avaya AS5300 and Cisco UCM export their CDR records using a Secure File Transfer Protocol (SFTP) client. Those AMA records must be received by an SFTP server and then processed. The Teleboss 850, which is a certified component of the SUT, serves as the SFTP server receiving the Call Detail Record (CDR) data. The SUT successfully demonstrated the capability to process the CDR records received by the SFTP server. There were no new interoperability discrepancies found during testing of this DTR. The DISA CA provided a positive recommendation for this DTR on 8 July 2013, based on the security testing completed DISA-led IA test teams and published in a separate report, Reference (g). Therefore, JITC approves these DTRs.

4. The Functional Requirements used to evaluate the interoperability of the SUT and the interoperability statuses are depicted in Table 1.

**Table 1. SUT Functional Requirements and Interoperability Status**

Interface	Critical	Certified	Functional Requirements	Status	UCR Reference (See note 1.)
Serial EIA-232 Secure Voice Zone (See note 2.)	No (See note 3.)	Yes	In accordance with EIA-232 (C)	Met	5.2.8.1
			Fault Management (C)	Met	5.2.8.3
			Configuration Management (Switch Access) (C)	Met	5.2.8.4
			Automated Message Accounting (C)	Met	5.2.8.5
			Performance Management (C)	Met	5.2.8.6
IEEE 802.3u Ethernet (See notes 4 and 5.)	No (See note 3.)	Yes	Minimum Requirements for Enterprise and Network Management Systems (R)	Met	5.11.2
			Connectivity to Monitored Network Elements (R)	Met	5.11.2.1
			Segregation of NM Data into Categories (R)	Met	5.11.2.2
			Call Detail Records (C)	Met (See note 6.)	5.11.2.1
			IPv6 (R)	Not Tested (See note 7.)	5.3.5
Differentiated Service Code Point (R)	Met	5.3.3.3.2			
Security	Yes	Yes	GR-815, STIGs, other IA requirements (R)	Met (See note 8.)	5.3.2.17.3.5

**NOTES:**

1. The serial interface to the Avaya CS2100 SVZ was tested in accordance with the requirements in Reference (d) because the legacy requirements have been omitted from Reference (c). The Ethernet interface was tested in accordance with the requirements in Reference (c).
2. The SUT was tested with the serial interface to the Avaya CS2100 Multifunction Switch (MFS) Secure Voice Zone with software release SE 9.1. The SUT serial interface is certified for joint use with any CS2100 switch that is currently listed on the UC APL or is on the UC APL Removal Page (End of Sale).
3. The SUT is a CPE device that provides network monitoring functions. The UCR does not include specific interfaces, therefore, the Network Management interoperability requirement can be met with any of the following interfaces: Ethernet, asynchronous serial, or synchronous serial.

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**Table 1. SUT Functional Requirements and Interoperability Status (continued)**

<b>NOTES (continued):</b>		
4. The SUT was tested with the IEEE 802.3u interface to the Avaya S8800 LSC software release CM 6.0.1 (00.1.510.1 Service Pack 19211). The SUT Ethernet interface is certified for joint use with any Avaya LSC and SMEO switch with CM 6.x software that is currently listed on the UC APL or is on the UC APL Removal Page (End of Sale).		
5. The SUT was tested with the IP interface to the Avaya AS5300 and Cisco UCM during verification and validation testing for DTR 2.		
6. This requirement was only tested and verified during testing for DTR 2. This requirement applies to the SUT specifically for connectivity to the Avaya AS5300 and Cisco UCM LSCs.		
7. In accordance with the UCR 2008, Change 3, table 5.3.5-1, EMS systems must be IPv6 capable in accordance with the guidance in table 5.3.5-4 for Network Appliance/Simple Server (NA/SS). However, UCR 2008 Change 3 section 5.3.5.1.1 states "While there are requirements to manage IPv6 networks, the Network Management may be done using IPv4, at this time.", therefore, IPv6 was not tested.		
8. Security is tested by DISA-led Information Assurance test teams and published in a separate report, Reference (g).		
<b>LEGEND:</b>		
802.3u	Standard for carrier sense multiple access with collision detection at 100 Mbps	IA Information Assurance
APL	Approved Products List	IEEE Institute of Electrical and Electronics Engineers
C	Conditional	IPv6 Internet Protocol version 6
CM	Communication Manager	LSC Local Session Controller
CPE	Customer Premises Equipment	Mbps Megabits per second
CS	Communication Server	MFS Multifunction Switch
DCE	Data Circuit-terminating Equipment	NA/SS Network Appliance/Simple Server
DISA	Defense Information Systems Agency	NM Network Management
DTE	Data Terminal Equipment	R Required
DTR	Desktop Review	SE Succession Enterprise
EIA	Electronic Industries Alliance	SMEO Small End Office
EIA-232	Standard for defining the mechanical and electrical characteristics for connecting DTE and DCE data communications devices	STIGs Security Technical Implementation Guides
GR	Generic Requirement	SUT System Under Test
GR-815	Generic Requirements For Network Element/Network System (NE/NS) Security	SVZ Secure Voice Zone
		UC Unified Capabilities
		UCM Unified Communications Manager
		UCR Unified Capabilities Requirements

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

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6. The JITC point of contact is 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 UCCO tracking number for the SUT is 1115301.

FOR THE COMMANDER:



for RICHARD A. MEADOR  
Chief  
Battlespace Communications Portfolio

Enclosure a/s

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DOT&E, Netcentric Systems and Naval Warfare  
Medical Health Systems, JMIS IV&V  
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UCCO

## ADDITIONAL REFERENCES

- (c) Office of the Department of Defense Chief Information Officer, "Department of Defense Unified Capabilities Requirements 2008, Change 3," September 2011
- (d) Office of the Assistant Secretary of Defense, "Department of Defense Unified Capabilities Requirements 2008," 22 January 2009
- (e) Joint Interoperability Test Command, "Defense Switched Network Generic Switch Test Plan (GSTP) Change 2," 2 October 2006
- (f) Joint Interoperability Test Command, Memo, JTE, "Special Interoperability Test Certification of the Unique Communications Configuration Accounting Information Retrieval System (CAIRS) with Software Release 4.0," 1 October 2012
- (g) Joint Interoperability Test Command, Memo, "Information Assurance (IA) Assessment of Unique Communications Configuration Accounting Information Retrieval System (CAIRS) Release (Rel.) 4.0 (Tracking Number 1115301)," 1 October 2012