



DEFENSE INFORMATION SYSTEMS AGENCY

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

18 Mar 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 System 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 three years from the date of the original Unified Capabilities (UC) Approved Products List (APL) memorandum (3 October 2015).

3. The extension of this certification is based upon Desktop Review (DTR) 1. 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). The SUT was tested on the Dell PowerEdge 860 server. This DTR was requested to include certification of the SUT on the following server models: Dell PowerEdge R720, iX Systems IXR 1204, and the Hewlett Packard (HP) DL 360 G8. Table 1 depicts the SUT server minimum requirements as delineated in the vendor’s engineering guidelines. Table 2 depicts the specifications for the currently certified server and the new servers requested in this DTR. JITC analysis determined that the Dell PowerEdge R720, iX Systems IXR 1204, and the HP DL 360 G8 server models are functionally identical to the Dell PowerEdge 860 server that is certified with the SUT and therefore, adding these three servers will have no impact on the interoperability certified features and functions of the SUT. Consequently JITC approves this DTR. The original IA approval applies to this DTR because the IA posture does not change with the additional servers.

Table 1. SUT Server Minimum Requirements

Device	Operating System	Processor	Clock Speed	RAM	Storage
Application Server	Windows Server 2008 R2	Dual Intel Xeon family	2.2GHz	16GB	200GB
Database Server	Windows Server 2008 R2	Dual Intel Xeon family	2.2GHz	16GB	1TB

LEGEND:
 GB Gigabyte
 GHz GigaHertz
 RAM Random Access Memory
 R2 Release 2
 SUT System Under Test
 TB Terabyte

Table 2. SUT Server Hardware Comparison

Server Features	Dell PowerEdge 860 (currently certified)	Dell PowerEdge 720	iX Systems IXR 1204	HP DL360 G8
Processor	Intel Xeon Dual Core 3000 series	Dual Intel Xeon E5-2600 series	Dual Intel Xeon E5-2600 series	Dual Intel Xeon E5-2600 series
Clock Speed	3 GHz	2.6 GHz	2.6 GHz	2.6 GHz
Operating System	Windows Server 2008 R2	Windows Server 2008 R2	Windows Server 2008 R2	Windows Server 2008 R2
RAM	Up to 8.0 GB (4 DIMM slots)	Up to 768 GB (24 DIMM slots)	Up to 512 GB (16 DIMM slots)	Up to 768 GB (24 DIMM slots)
Storage	2x 3.5” SATA or SAS up to 1 TB	16x 2.5” SSD or SAS up to 32 TB	4x 3.5” SSD or SAS up to 16 TB	8x 2.5” SSD or SAS up to 16 TB

LEGEND:
 DIMM dual in-line memory module
 GB Gigabyte
 GHz GigaHertz
 R2 Release 2
 RAM Random Access Memory
 SAS serial attached Small Computer System Interface (SCSI)
 SATA Serial ATA
 SSD Solid-state drive
 SUT System Under Test
 TB Terabyte
 U Rack Unit

4. The Functional Requirements used to evaluate the interoperability of the SUT and the interoperability statuses are depicted in Table 3.

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Table 3. 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
			Minimum Requirements for Enterprise and Network Management Systems (R)	Met	5.11.2
IEEE 802.3u Ethernet (See note 4.)	No (See note 3.)	Yes	Connectivity to Monitored Network Elements (R)	Met	5.11.2.1
			Segregation of NM Data into Categories (R)	Met	5.11.2.2
			IPv6 (R)	Not Tested (See note 5.)	5.3.5
			Differentiated Service Code Point (R)	Met	5.3.3.3.2
			GR-815, STIGs, other IA requirements (R)	Met (See note 6.)	5.3.2.17.3.5
Security	Yes	Yes	GR-815, STIGs, other IA requirements (R)	Met (See note 6.)	5.3.2.17.3.5

NOTES:

- 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).
- 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).
- 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.
- The SUT was tested with the IEEE 802.3u interface to the Aura 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).
- 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.
- Security is tested by DISA-led Information Assurance test teams and published in a separate report, Reference (g).

LEGEND:

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
EIA	Electronic Industries Alliance	SE	Succession Enterprise
EIA-232	Standard for defining the mechanical and electrical characteristics for connecting DTE and DCE data communications devices	SMEO	Small End Office
GR	Generic Requirement	STIGs	Security Technical Implementation Guides
GR-815	Generic Requirements For Network Element/Network System (NE/NS) Security	SUT	System Under Test
		SVZ	Secure Voice Zone
		UC	Unified Capabilities
		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

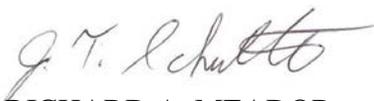
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Tracking Program (STP). STP is accessible by .mil/gov users on the NIPRNet at <https://stp.fhu.disa.mil>. Test reports, lessons learned, and related testing documents and references are on the JITC Joint Interoperability Tool (JIT) at <http://jit.fhu.disa.mil> (NIPRNet). Information related to DSN testing is on the Telecom Switched Services Interoperability (TSSI) website at <http://jitc.fhu.disa.mil/tssi>. 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. All associated data is available on the DISA UCCO website located at <http://www.disa.mil/ucco/>.

6. The JITC point of contact is Mr. Cary Hogan, DSN 879-2589, commercial (520) 538-2589, FAX DSN 879-4347, or e-mail to cary.v.hogan.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:

Enclosure a/s


for RICHARD A. MEADOR
Chief
Battlespace Communications Portfolio

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DIA, Office of the Acquisition Executive
NSG Interoperability Assessment Team
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