



DEFENSE INFORMATION SYSTEMS AGENCY

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FORT MEADE, MARYLAND 20755-0549

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

23 Jan 13

MEMORANDUM FOR DISTRIBUTION

SUBJECT: Extension of the Special Interoperability Test Certification of the Cisco Unity Connection Software Release 8.6(1) with Private Branch Exchange (PBX) Internet Protocol Media Gateway (PIMG) Analog Interface with update of Engineering Special (ES) 4 to ES 7

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 (f), see Enclosure

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

2. The Cisco Unity Connection Release 8.6(1) with PIMG Analog interface is hereinafter referred to as the System Under Test (SUT). The SUT met all of its critical interoperability requirements and is certified as interoperable for joint use within the Defense Information Systems Network (DISN) as a Customer Premise Equipment (CPE) voicemail system with the Avaya Communication Server (CS) 2100. The SUT met the critical interoperability requirements set forth in Reference (c) using test procedures derived from Reference (d). Per Reference (c), Internet Protocol (IP) version 6 (IPv6) is conditional; the SUT did not support IPv6 during the original test. Additionally, JITC analysis also determined that any digital switching system on the Unified Capabilities (UC) Approved Product List (APL) that has a certified serial Electronic Industries Alliance-232 Simple Message Desk Interface and 2-wire loop start analog interface should function identically and are also certified for joint use within the DISN. No other configurations, features, or functions, except those cited within this report, are certified by the JITC. This certification expires upon changes that affect interoperability, but no later the date of the original UC APL memorandum expiration (6 June 2015).

3. The extension of this certification is based upon Desktop Review (DTR) 1. The original certification, documented in Reference (e), is based on interoperability testing, review of the vendor's Letters of Compliance (LoC), and DISA Certifying Authority (CA) Recommendation. Interoperability testing was conducted at JITC's Global Information Grid Network Test Facility, Fort Huachuca, Arizona from 5 through 15 July 2011. Review of the vendor's LoC was completed on 13 February 2012. The DISA CA provided a positive DISA CA Recommendation on

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30 May 2012 based on the security testing completed by DISA-led Information Assurance (IA) test teams and published in a separate report, Reference (f). This DTR was requested to update from ES 4 to ES 7. This release includes IA fixes and full IPv6 functionality. JITC determined Verification and Validation (V&V) testing was required prior to approval. JITC conducted IA and interoperability V&V testing from 17 through 21 December 2012 and successfully verified the changes associated with this DTR. The vendor also provided an LoC for the IPv6 requirements that were not tested. Therefore, JITC approves this DTR. The DISA CA provided a positive recommendation for this update on 23 January 2013. The results of the IA testing are published in a separate report, Reference (f).

4. The Capability Requirements (CR) and Functional Requirements (FR) used to evaluate the interoperability of the SUT and the interoperability statuses are indicated in Table 1. This interoperability test status is based on the SUT’s ability to meet CPE voicemail system requirements specified in section 5 of Reference (c) verified through JITC testing and/or vendor submission of LoC.

Table 1. SUT CR, FR and Interoperability Status

Interface	Critical	Certified	CRs/FRs	Met	UCR Paragraph
EIA-232 Serial	No	Yes	ANSI/TIA/EIA-232-F (C)	Met	5.2.1.2
			FCC Part15/Part 68 (R)	Met	5.2.1.2
2-Wire Analog (GR-506-CORE)	No	Yes	FCC Part15/Part 68 (R)	Met	5.2.1.2
			DTMF and/or DP out pulsing IAW GR-506-CORE (C)	Met	5.2.1.2
			ROUTINE precedence only IAW UCR, Section 5.3.2.31.3 (R)	Met	5.2.1.2
			TIA/EIA-470-B (R)	Met	5.2.1.2
IP (1000BaseT) (IEEE 802.3u)	No	Yes	Service Class Tagging (R)	Met	5.3.3.3.2
			IPv6 (C)	Met ¹	5.3.5
			IEEE 802.3 (C)	Met	5.2.1.2
Security	Yes	Yes	Security (R) ²	Met	5.4

NOTES:

- SUT IPv6 capability was not included in the original certification. IPv6 capability was successfully demonstrated during the Verification and Validation testing conducted from 17 through 21 December in support of Desktop Review 1. The vendor also provided an LoC for the IPv6 requirements that were not tested.
- Security is tested by DISA-led Information Assurance test teams and published in a separate report, Reference (f).

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Table 1. SUT CR, FR and Interoperability Status (continued)

LEGEND:			
1000BaseT	1000 Mbps (Baseband Operation, Twisted Pair) Ethernet	FR	Functional Requirement
		GR	Generic Requirement
802.3u	Standard for carrier sense multiple access with collision detection at 100 Mbps	GR-506	LSSGR: Signaling for Analog Interfaces
ANSI	American National Standards Institute	IAW	In accordance with
C	Conditional	IEEE	Institute of Electrical and Electronics Engineers
CR	Capability Requirement	IP	Internet Protocol
DCE	Data Circuit-terminating Equipment	IPv6	Internet Protocol version 6
DISA	Defense Information Systems Agency	LATA	Local Access and Transport Area
DP	Dial Pulse	LSSGR	LATA Switching Systems Generic Requirements
DTE	Data Terminal Equipment	Mbps	Megabits per second
DTMF	Dual Tone Multi-Frequency	R	Required
EIA	Electronic Industries Alliance	SUT	System Under Test
EIA-232-F	Standard for defining the mechanical and electrical characteristics for connecting DTE and DCE data communications devices	TIA	Telecommunications Industry Association
		TIA/EIA-470-B	Performance and Compatibility Requirements for Telephone Sets with Loop Signaling
FCC	Federal Communications Commission	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). 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 CPT Jonathan Kim, DSN 879-5182, commercial (520) 538-5182, FAX DSN 879-4347, or e-mail to jonathan.s.kim.mil@mail.mil. JITC's mailing address is P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The UCCO tracking number for the SUT is 1109802.

FOR THE COMMANDER:

Enclosure a/s


for BRADLEY A. CLARK
Acting Chief
Battlespace Communications Portfolio

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DISA/TEMC

DIA, Office of the Acquisition Executive

NSG Interoperability Assessment Team

DOT&E, Netcentric Systems and Naval Warfare

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UCCO

ADDITIONAL REFERENCES

- (c) Office of the Assistant Secretary of Defense, "Department of Defense Unified Capabilities Requirements 2008, Change 2," December 2010.
- (d) Joint Interoperability Test Command, "Defense Switched Network Generic Switch Test Plan (GSTP), Change 2," 2 October 2006
- (e) Joint Interoperability Test Command, Memo, JTE, "Special Interoperability Test Certification of the Cisco Unity Connection Software Release 8.6(1) with Private Branch Exchange (PBX) Internet Protocol Media Gateway (PIMG) Analog Interface," 1 June 2012
- (f) Joint Interoperability Test Command, "Information Assurance (IA) Assessment of Cisco Unity Connection Release (Rel.) 8.6 with (w)/ Private Branch Exchange Internet Protocol Media Gateway-Analog (PIMG-A) 6.0 Service Update (SU) 8 (Tracking Number 1109802)," Draft