



DEFENSE INFORMATION SYSTEMS AGENCY

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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) Digital 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 Software Release 8.6(1) with PIMG Digital interface is hereinafter referred to as the System Under Test (SUT). The SUT meets 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)1000M Single Group with the NT8D02GA digital line card and the Avaya S8710 with the TN2224CP digital line card for Internet Protocol version 4 (IPv4) only. Internet Protocol version 6 (IPv6) is conditional; the SUT did not support IPv6 during the original test. The SUT meets the critical interoperability requirements set forth in Reference (c) and testing was conducted using test procedures derived from Reference (d). Additionally, JITC analysis determined that the following digital switching systems that are either listed on the Unified Capabilities (UC) Approved Product List (APL) or UC APL End of Sale list: Avaya Meridian 1 (M1) Option 61C, Avaya M1 Option 81C, Avaya CS1000M Cabinet, Avaya CS1000M Chassis, and Avaya M1 Option 11C with the NT8D02GA digital line card, and the Avaya S8700, Avaya S8720, Avaya S8500, Avaya S8400, Avaya S8300, and Avaya G3CSI (ProLogix) with the TN2224CP digital line card should function identically to the SUT and are, therefore, 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

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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 Recommendation on 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 CRs, FRs and Interoperability Status

Interface	Critical	Certified	CRs/FRs	Met	UCR Paragraph
Avaya 2-Wire Digital Proprietary ¹ (TN2224CP)	No	Yes	FCC Part15/Part 68 (R)	Met	5.2.1.2
			ROUTINE precedence only IAW UCR, Section 5.3.2.31.3 (R)	Met	5.2.1.2
Avaya CS1000M 2-Wire Digital Proprietary ² (NT8D02GA)	No	Yes	FCC Part15/Part 68 (R)	Met	5.2.1.2
			ROUTINE precedence only IAW UCR, Section 5.3.2.31.3 (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 ³	5.3.5
			IEEE 802.3u (C)	Met	5.2.1.2
Security	Yes	Yes	Security (R)	Met ⁴	5.4

NOTES:

1. The SUT emulates an Avaya digital proprietary end-instrument (interfaces to digital card: TN2224CP) and is certified with all Avaya S8700, S8710, S8720, S8500, S8400, S8300, and G3CSI (ProLogix) switches listed on UC APL certified with their respective proprietary digital interfaces.
2. The SUT emulates an Avaya digital proprietary end-instrument (interfaces to digital card: NT8D02GA) and is certified with all Avaya CS1000M Single Group, Meridian 1 (M1) Option 61C, M1 Option 81C, CS1000M Cabinet, Avaya CS1000M Chassis, Avaya M1 Option 11C switches listed on the UC APL certified with their respective digital interfaces.
3. 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.
4. Security is tested by DISA-led Information Assurance test teams and published in a separate report, Reference (f).

Table 1. SUT CRs, FRs and Interoperability Status (continued)

LEGEND:		FR	Functional Requirement
1000baseT	1000 Mbps (Baseband Operation, Twisted Pair) Ethernet	IAW	In accordance with
802.3u	Standard for carrier sense multiple access with collision detection at 100 Mbps	IEEE	Institute of Electrical and Electronics Engineers
A	Appendix	IP	Internet Protocol
APL	Approved Products List	IPv6	Internet Protocol version 6
C	Conditional	JITC	Joint Interoperability Test Command
CR	Capability Requirement	Mbps	Megabits per second
CS	Communications Server	R	Required
DISA	Defense Information Systems Agency	SUT	System Under Test
FCC	Federal Communications Commission	UC	Unified Capability
		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 1109803.

FOR THE COMMANDER:

Enclosure a/s


for BRADLEY A. CLARK
Acting Chief
Battlespace Communications Portfolio

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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) Digital 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-Digital (PIMG-D) 6.0 Service Update (SU) 8 (Tracking Number 1109803)," Draft