



DEFENSE INFORMATION SYSTEMS AGENCY

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

19 Mar 12

MEMORANDUM FOR DISTRIBUTION

SUBJECT: Extension of the Special Interoperability Test Certification of the Cisco® Codec Quick Set C20, Codec C60, Codec C90, and Personal Telepresence EX90 Version TC3.5.0 with Video Communication Server (VCS) from Version X5.1 to Version X6.0

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 (DISA), Joint Interoperability Test Command (JITC), as the responsible organization for interoperability test certification.

2. The Cisco® Codec Quick Set C20, Codec C60, Codec C90, and Personal Telepresence EX90 Version TC3.5.0 with VCS Version X5.1, are hereinafter referred to as the System Under Test (SUT). The SUT was originally certified for joint use in the Defense Information System Network as Video Teleconferencing (VTC) codecs that only have an Internet Protocol (IP) (10/100 Megabits per second) interface, Reference (c). The vendor submitted a Desktop Review (DTR) to test the Common Access Card (CAC) capability of the Cisco® Codec Quick Set C20, Codec C60, and Codec C90 with the new VCS Version X6.0. The Telecommunication Systems Security Assessment Program (TSSAP), 346th Test Squadron, 318th Information Operations Group (IOG), San Antonio, Texas, conducted testing using product requirements derived from the Unified Capabilities Requirements (UCR), Reference (d), and test procedures, Reference (e). The JITC will verify the SUT's certification status during operational deployment. Any new discrepancies noted in the operational environment will be evaluated for impact on the existing certification. These discrepancies will be adjudicated to the satisfaction of DISA via vendor Plan of Action & Milestones that address all new critical discrepancies within 120 days of identification. The JITC does not certify any other configurations, features, or functions, except those cited in this memorandum, or authorized by the Program Management Office. This certification extension expires upon changes that affect interoperability, but no later than three years from the date of Defense Information Assurance (IA)/Security Accreditation Working Group (DSAWG) accreditation, dated 16 August 2010.

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3. JITC approves the extension of this certification for DTR 4 submitted to verify that the upgrade from VCS Version X5.1 to VCS Version X6.0 enables CAC support with the Cisco® Codec Quick Set C20, Codec C60, and Codec C90. Approval is based on Verification and Validation testing conducted from 14 through 18 March 2011 by the TSSAP, review of test results by JITC, and DISA IA Certification Authority (CA) positive recommendation on 11 August 2011. The results of the tests for this product are published in a separate IA report, Reference (f).

4. Table 1 lists the interfaces, Capability Requirements (CR), Functional Requirements (FR), and component status of the SUT. The threshold Capability/Functional requirements for VTC codecs were established by Section 5.2.4 of Reference (d) and were used to evaluate the interoperability of the SUT.

Table 1. SUT CRs, FRs, and Interoperability Status

Interface	Critical	Certified	CRs and FRs	Status	UCR Reference
IP (10/100 Mbps) ITU-T H.323	No ¹	Yes ²	The VTC system/endpoints shall meet the requirements of FTR1080B-2002. (R)	Met ³	5.2.4.2
			ITU-T H.323 in accordance with FTR 1080B-2002. (C)	Met	5.2.4.2
			Layer 3 DSCP tagging as specified in UCR 2008, Change 1, Section 5.3.1. (C)	Met	5.2.4.2
			A loss of any conferee on a multipoint videoconference shall not terminate or degrade the DSN service supporting VTC connections of any of the other conferees on the videoconference. (R)	Met	5.2.4.2
			Physical, electrical, and software characteristics shall not degrade or impair switch and associated network operations. (R)	Met	5.2.4.2
			The VTU IP interface must be IPv6 capable. (R)	Not Met ²	Table 5.3.5.1
Security	Yes	Certified	GR-815, STIGs and DoDI 8510.bb (DIACAP) (R)	Met ⁴	3, 5.4.6

NOTES:

- 1 The UCR does not state a minimum required interface for a VTC. A VTC can offer any one of the following interfaces: ISDN BRI, Serial, T1 ISDN PRI, E1 ISDN PRI, and IP. The SUT consists of VTC codecs and a video communication server. The SUT only offers an IP (i.e. ITU-T H.323) interface; therefore, the SUT requires an IP to TDM gateway to connect to the DSN. The SUT was tested with the Cisco® Codian 3241 ISDN gateway version 2.0. The SUT is certified for use with any gateway listed on the UC APL.
- 2 The SUT met the conditional requirements for an IP interface with the ITU-T H.323 protocol; however, Assured Service is not yet defined for an IP interface with ITU-T H.323 protocol. Therefore, C2 VTC users and Special C2 VTC users are not authorized to be served by an IP interface with the ITU-T H.323 protocol. Furthermore, the SUT does not support IPv6. The ASD/NII granted a waiver for IPv6 until 1 January 2011. As part of the waiver stipulations in accordance with DoD rules of engagement for waivers, the vendor must submit a request by 31 December 2010 to have IPv6 tested before 31 March 2011 or this certification is subject to being removed from the UC APL.
- 3 The SUT does not support NX56 bonding in accordance with the FTR 1080B-2002. This discrepancy was adjudicated by DISA on 26 January 2010 as having a minor operational impact.
- 4 Security is tested by DoD Component lab Information Assurance test teams and published in a separate report, Reference (e).

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

LEGEND:			
APL	Approved Products List	H.323	Standard for multi-media communications on packet-based networks
ASD/NII	Assistant Secretary of Defense for Networks and Information Integration	IP	Internet Protocol
BRI	Basic Rate Interface	IPv6	Internet Protocol version 6
C	Conditional	ISDN	Integrated Services Digital Network
C2	Command and Control	ITU-T	International Telecommunication Union - Telecommunication Standardization Sector
CR	Capability Requirement	Mbps	Megabits per second
DIACAP	Department of Defense Information Assurance Certification and Accreditation Process	NX56	56 kilobits per second bit rate in N increments
DISA	Defense Information Systems Agency	PRI	Primary Rate Interface
DoD	Department of Defense	R	Required
DoDI	Department of Defense Instruction	STIGs	Security Technical Implementation Guides
DSN	Defense Switched Network	SUT	System Under Test
DSCP	Differentiated Services Code Point	TDM	Time Division Multiplexing
E1	European Basic Multiplex Rate (2.048 Mbps)	T1	Digital Transmission Link Level 1 (1.544 Mbps)
FR	Functional Requirement	UC	Unified Capability
FTR	Federal Telecommunications Recommendation	UCR	Unified Capabilities Requirements
FTR1080B-2002	Video Teleconferencing Services	VTC	Video Teleconferencing
GR	Generic Requirements	VTU	Video Telephony Unit
GR-815	Generic Requirements for Network Element/ System Security		

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). The 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: ucco@disa.mil.

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6. The JITC point of contact is Mr. Steven Lesneski, DSN 879-5400, commercial (520) 538-5400, FAX DSN 879-4347, or e-mail to steven.lesneski@disa.mil. JITC's mailing address is P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The tracking number for the SUT is 0929501.

FOR THE COMMANDER:

Enclosure a/s


for BRADLEY A. CLARK
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Distribution (electronic mail):

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ADDITIONAL REFERENCES

- (c) Joint Interoperability Test Command, Memo, JTE, "Tandberg C Series Codec (Tracking Number 0929501)," 19 May 2011
- (d) Office of the Assistant Secretary of Defense, "Department of Defense Unified Capabilities Requirements 2008 Change 1," 22 January 2010
- (e) Joint Interoperability Test Command, "Defense Switched Network Generic Switch Test Plan (GSTP), Change 2," 2 October 2006
- (f) Air Force Test Facility, "Information Assurance (IA) Assessment of Cisco®, C-Series Codec Family version TC3.5.0 with VCS version X5.1 (Tracking Number 0929501)," 16 August 2010