



DEFENSE INFORMATION SYSTEMS AGENCY

P. O. BOX 549
FORT MEADE, MARYLAND 20755-0549

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

MEMORANDUM FOR DISTRIBUTION

27 May 11

SUBJECT: Extension of the Special Interoperability Test Certification of the Cisco Codian Media Services Engine (MSE) 8000 Version 2.0 (1.13)

References: (a) DoD Directive 4630.5, "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 the Defense Information Systems Agency, Joint Interoperability Test Command (JITC), as the responsible organization for interoperability test certification.

2. The Cisco Codian MSE 8000 Version 2.0 (1.13) is hereinafter referred to as the System Under Test (SUT). The SUT met all the critical interface and functional interoperability requirements and is certified for joint use within the Defense Switched Network (DSN) as a Video Teleconferencing (VTC) system. The SUT also met the conditional requirements for an Internet Protocol (IP) interface with the International Telecommunication Union – Telecommunication Standardization Sector (ITU-T) H.323 protocol; however, Assured Service is not yet defined for an IP interface with ITU-T H.323 protocol. Therefore, Command and Control (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. The SUT meets the critical interoperability requirements set forth in Reference (c) using test procedures derived from Reference (d). 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 than three years from the date of the original memorandum (12 November 2009).

3. The extension of this certification is based upon Desktop Review (DTR) 1. The original certification is based on interoperability testing conducted by JITC, review of the vendor's Letters of Compliance (LoC), and Defense Information Assurance (IA)/Security Accreditation Working Group (DSAWG) accreditation. Interoperability testing was conducted by JITC at the Global Information Grid Network Test Facility, Fort Huachuca, Arizona, from 15 through 26 June 2009. Regression testing of a patch to fix two interoperability discrepancies was conducted on 12 August 2009 and documented in Reference (e). Review of the vendor's LoC was completed on 20 July 2009. DSAWG granted accreditation on 10 November 2009 based on the security testing completed by DISA-led Information Assurance test teams and published in a

JITC Memo, JTE, Extension of the Special Interoperability Test Certification of the Cisco Codian Media Services Engine (MSE) 8000 Version 2.0 (1.13)

separate report, Reference (f). This DTR was requested to include the Codian 4500 MCU Series Version 4.0(1.18) with the Codian 3241 Integrated Services Digital Network (ISDN) Gateway Version 2.0(1.19)P. The Codian 4500 MCU uses the same software as the Codian 8510 Media 2 Blade. The Codian 3241 uses the same software as the Codian 8321 ISDN Gateway included in the original certification as part of the Codian MSE 8000. JITC analysis determined it to be functionally identical for interoperability and information assurance purposes and they are also certified for joint use. DSAWG accreditation of this DTR was granted on 27 April 2010. All testing was conducted on Tandberg® VTC codecs, which have all been renamed to Cisco® VTC codecs because Cisco® purchased Tandberg® in 2010. The product names have not changed. The documentation for the Tandberg certification is provided in Reference (g), which is identical to this certification except for paragraph 3 of the memorandum.

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

Table 1. SUT Functional Requirements and Interoperability Status

Interface	Critical	Certified	Requirements Required or Conditional	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	5.2.12.4.5
			ITU-T H.323 in accordance with FTR 1080B-2002 (C)	Met	5.2.12.4.5
			Layer 3 Differential Service Code Point tagging as specified in UCR, 5.2.12.8.2.9 (C)	Met	5.2.12.4.5
			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	5.2.12.4.5
			Audio add-on interface, implemented independently of an IAS, shall be in accordance with UCR, 5.2.12.3 (CPE) (C)	Met	5.2.12.4.5
			Physical, electrical, and software characteristics shall not degrade or impair switch and associated network operations (R)	Met	5.2.12.4.5
ISDN PRI T1, ISDN PRI E1 (ITU-T H.320)	No ¹	Yes	The VTC system/endpoints shall meet the requirements of FTR 1080B-2002 (R)	Met	5.2.12.4.5
			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	5.2.12.4.5
			Audio add-on interface, implemented independently of an IAS, shall be in accordance with UCR, 5.2.12.3 (CPE) (C)	Met	5.2.12.4.5
			Integrated PRI interface shall be in conformance with IAS requirements in UCR, 5.2.12.7 (IAS) (C)	Met	5.2.12.4.5
			Physical, electrical, and software characteristics of VTU system(s)/ endpoint(s) that are used in the DSN network shall not degrade or impair the serving DSN switch and its associated network operations.(R)	Met	5.2.12.4.5
Security	Yes	Certified	GR-815, STIGs, and DoDI 8510.bb (DIACAP) (R)	See note 3.	3.2.3, 3.2.5, and 5.4.6.1

NOTES:

- 1 The VTC system interface requirements can be met with ISDN PRI, Serial, or ISDN BRI. In addition the SUT may include an ITU-T H.323 conditional interface.
- 2 The SUT also 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 offer IPv6, however this requirement is currently a conditional requirement for an MCU or VTU. This requirement will be changed as required in the UCR change 1. In the interim OSD has issued an interim rules of engagement dated 23 June 2009, and the vendor will have 18 months from this date to comply. There is no operational impact.
- 3 Security is tested by DISA-led Information Assurance test teams and published in a separate report, Reference (f).

Table 1. SUT Functional Requirements and Interoperability Status

LEGEND:			
BRI	Basic Rate Interface	IAS	Integrated Access Switch
C	Conditional	IP	Internet Protocol
C2	Command and Control	IPv6	Internet Protocol version 6
CPE	Customer Premise Equipment	ISDN	Integrated Services Digital Network
DIACAP	Department of Defense Information Assurance Certification and Accreditation Process	ITU-T	International Telecommunication Union - Telecommunication Standardization Sector
DISA	Defense Information Systems Agency	Mbps	Megabits per seconds
DoDI	Department of Defense Instruction	MCU	Multipoint Control Unit
DSN	Defense Switched Network	OSD	Office of the Secretary of Defense
E1	European Basic Multiplex Rate (2.048 Mbps)	PRI	Primary Rate Interface
FTR	Federal Telecommunications Recommendation	R	Required
GR	Generic Requirement	STIGs	Security Technical Implementation Guides
GR-815	Generic Requirements For Network Element/Network System (NE/NS) Security	SUT	System Under Test
H.320	Standard for narrowband VTC	T1	Digital Transmission Link Level 1 (1.544 Mbps)
H.323	Standard for multi-media communications on packet-based networks	UCR	Unified Capabilities Requirements
		VTC	Video Teleconferencing
		VTU	Video Teleconferencing Unit

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 <https://jit.fhu.disa.mil> (NIPRNet). Information related to DSN testing is on the Telecom Switched Services Interoperability (TSSI) website at <https://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.

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. The JITC’s mailing address is P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The tracking number for the SUT is 0818201.

FOR THE COMMANDER:

Enclosure a/s


 for **BRADLEY A. CLARK**
 Chief
 Battlespace Communications Portfolio

JITC Memo, JTE, Extension of the Special Interoperability Test Certification of the Cisco
Codian Media Services Engine (MSE) 8000 Version 2.0 (1.13)

Distribution (electronic mail):

Joint Staff J-6

Joint Interoperability Test Command, Liaison, TE3/JT1

Office of Chief of Naval Operations, CNO N6F2

Headquarters U.S. Air Force, Office of Warfighting Integration & CIO, AF/XCIN (A6N)

Department of the Army, Office of the Secretary of the Army, DA-OSA CIO/G-6 ASA (ALT),
SAIS-IOQ

U.S. Marine Corps MARCORSYSCOM, SIAT, MJI Division I

DOT&E, Net-Centric Systems and Naval Warfare

U.S. Coast Guard, CG-64

Defense Intelligence Agency

National Security Agency, DT

Defense Information Systems Agency, TEMC

Office of Assistant Secretary of Defense (NII)/DOD CIO

U.S. Joint Forces Command, Net-Centric Integration, Communication, and Capabilities
Division, J68

Defense Information Systems Agency, GS23

ADDITIONAL REFERENCES

- (c) Office of the Assistant Secretary of Defense, "Department of Defense Unified Capabilities Requirements 2008," 22 January 2009
- (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 Codian Media Services Engine (MSE) 8000 Version 2.0 (1.13)," 12 November 2009
- (f) Joint Interoperability Test Command, "Information Assurance (IA) Assessment of Cisco Codian Media Service Engine (MSE) 8000 Version 2.0(1 rev 13) (Tracking Number 0818201)," 10 November 2009
- (g) Joint Interoperability Test Command Memo, JTE, "Extension of the Special Interoperability Test Certification of the Cisco Codian Media Services Engine (MSE) 8000 Version 2.0 (1.13)," 27 April 2010