



DEFENSE INFORMATION SYSTEMS AGENCY

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

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

15 Apr 13

MEMORANDUM FOR DISTRIBUTION

SUBJECT: Extension of the Special Interoperability Test Certification of Vidyo Video Conferencing System with Software Version 2.1.2.56_D to include Federal Security Update 2 with Codian Media Service Engine (MSE) 8321 Integrated Services Digital Network (ISDN) Gateway version 2.1(1.43)P

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 Vidyo Video Conferencing System with Software Version 2.1.1.11_D with Codian MSE 8321 ISDN Gateway version 2.1(1.43)P is hereinafter referred to as the System Under Test (SUT). The SUT meets all of its critical interface and functional interoperability requirements and is certified for joint use within the Defense Information System Network (DISN) as a Video Teleconferencing (VTC) system. The SUT 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 is IP only and requires the use of an ITU-T H.323 to ITU-T H.320 gateway solution as a required subcomponent in order to connect to the DISN. In testing, JITC found minimal risk in certifying this with any ITU-T H.323 to ITU-T H.320 gateways that are certified and on the Unified Capabilities (UC) Approved Product List (APL) as a component to other certified VTC systems. 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 could affect interoperability, but no later than three years from the date the DISA Certifying Authority (CA) provided a positive Recommendation.

JITC Memo, JTE, Extension of the Special Interoperability Test Certification of Vidyo Video Conferencing System with Software Version 2.1.2.56_D to include Federal Security Update 2 with Codian Media Service Engine (MSE) 8321 Integrated Services Digital Network (ISDN) Gateway version 2.1(1.43)P

3. The extension of this certification is based upon Desktop Review (DTR) 2. The original certification, documented in Reference (e), is based on interoperability testing conducted by JITC, review of the vendor’s Letters of Compliance (LoC), DISA adjudication of open test discrepancy reports (TDRs), and DISA CA Recommendation. Interoperability testing was conducted by JITC at the Global Information Grid Network Test Facility, Fort Huachuca, Arizona, from 20 June through 29 July 2011 to test the SUT with software release 2.1.0.15_D. The Verification and Validation testing was conducted from 19 through 23 December 2011 to test the SUT with Software Release 2.1.1.11_D which included IPv6 capability and some IA fixes. Review of the vendor’s LoC was completed on 27 September 2011. DISA adjudication of outstanding TDRs was completed on 18 March 2012 and included a lessened requirement from Reference (f). The DISA CA provided a positive recommendation on 25 April 2012 based on the security testing completed by DISA-led IA test teams and published in a separate report, Reference (g). This DTR was requested to include Federal Security Update 2 on the following SUT components: VidyoPortal Release 2.1.2.56_D, VidyoRouter Release 2.1.2.56_D, and the VidyoGateway Release 2.1.2.21_D. Federal Security Update 2 fixes open IA discrepancies related to MySQL and adds SNMP traps capability. JITC conducted IA and interoperability V&V testing from 4 through 8 March 2013. The DISA CA approved the new configuration on 13 March 2013, based on review of the DISA-led IA test team’s updated report, Reference (g). Therefore, JITC approves this DTR.

4. The SUT tested VTC systems are depicted in Table 1. The Functional Requirements (FR) used to evaluate the interoperability of the SUT, certified interfaces and the interoperability statuses are indicated in Table 2.

Table 1. SUT VTC Systems

	Tested VTC System	Supported Interfaces
SUT (See notes 1 and 2.) 2.1.2.56_D	Vidyo Room Systems HD050, HD100, HD220 with Software Version 2.1.0.361_D	IP (10/100/1000 Mbps with ITU-T H.323 protocol)
	Vidyo Desktop Software With Software Version 2.1.0.383_D	IP (10/100 Mbps with ITU-T H.323 protocol)
	VidyoPortal and VidyoRouter With Software Version 2.1.2.56_D (See note 3.)	IP (10/100 Mbps with ITU-T H.323 protocol)
	Vidyo Gateway With Software Version 2.1.2.21_D (See note 3.)	IP (10/100 Mbps with ITU-T H.323 protocol)
	Codian MSE 8321 ISDN Gateway Software Version 2.1(1.43)P	IP (10/100 Mbps with ITU-T H.323 protocol), ISDN PRI T1
NOTES:		
1. The SUT is IP only and requires the use of an ITU-T H.323 to ITU-T H.320 gateway solution as a required subcomponent in order to connect to the DISN. In testing, JITC has found minimal risk in certifying this with any ITU-T H.323 to ITU-T H.320 gateway certified and on the UC APL as a component to other certified VTC systems.		
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.		
3. Federal Security Update 2, which fixes open IA discrepancies related to MySQL, and to add SNMP traps capabilities, was installed on these SUT components and tested for Desktop Review 2.		

JITC Memo, JTE, Extension of the Special Interoperability Test Certification of Vidyo Video Conferencing System with Software Version 2.1.2.56_D to include Federal Security Update 2 with Codian Media Service Engine (MSE) 8321 Integrated Services Digital Network (ISDN) Gateway version 2.1(1.43)P

Table 1. SUT VTC Systems (continued)

LEGEND:			
APL	Approved Products List	JITC	Joint Interoperability Test Command
C2	Command and Control	Mbps	Megabits per second
DISN	Defense Information System Network	MSE	Media Service Engine
H.320	Standard for narrowband VTC	PRI	Primary Rate Interface
H.323	Standard for multi-media communications on packet-based networks	SUT	System Under Test
HD	High Definition	T1	Digital Transmission Link Level 1 (1.544 Mbps)
IP	Internet Protocol	UC	Unified Capabilities
ISDN	Integrated Services Digital Network	VTC	Video Teleconferencing
ITU-T	International Telecommunication Union - Telecommunication Standardization Sector		

Table 2. SUT FRs and Interoperability Status

Interface	Critical	Certified	Requirements Required or Conditional	Status	UCR Reference
IP (10/100/ 1000 Mbps) ITU-T H.323	No (See note 1.)	Yes (See note 2.)	The VTC system/endpoints shall meet the requirements of FTR 1080B-2002. (R)	Met	5.2.4.2
			ITU-T H.323 in accordance with FTR 1080B-2002. (C)	Met (See note 3.)	5.2.4.2
			Layer 3 Differential Service Code Point tagging as specified in the UCR, Section 5.3.1. (C)	Not Met (See note 4.)	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
			Audio add-on interface, implemented independently of an IAS, shall be in accordance with the UCR, Section 5.2.3. (C)	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
			VTC IP interface must be IPv6 capable and meet the Simple Server/Network Appliance IPv6 profile (R)	Partially Met (See note 5.)	5.3.5
ISDN PRI T1	No (See note 1.)	Yes	The VTC system/endpoints shall meet the requirements of FTR 1080B-2002. (R)	Met (See note 3.)	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
			Audio add-on interface, implemented independently of an IAS, shall be in accordance with the UCR, Section 5.2.3. (C)	Met	5.2.4.2
			Integrated PRI interface shall be in conformance with IAS requirements in the UCR, Section 5.2.6. (C)	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
Security	Yes	Yes	GR-815 and STIGs (R)	Met (See note 6.)	4.3.1 and 5.4.6.1
NOTES:					
1. The SUT is IP only and requires the use of an ITU-T H.323 to ITU-T H.320 gateway solution as a required subcomponent in order to connect to the DISN. In testing, JITC has found minimal risk in certifying this with any ITU-T H.323 to ITU-T H.320 gateways certified and on the UC APL as a component to other certified VTC systems.					
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.					
3. All requirements are derived from UCR 2008, Change 1, Reference (c). The SUT does not support a sub-requirement inside FTR-1080B-2002. This sub-requirement was changed to conditional in UCR 2008, Change 3, Reference (f). DISA stated that effective immediately, this is no longer applicable to the SUT.					

JITC Memo, JTE, Extension of the Special Interoperability Test Certification of Vidyo Video Conferencing System with Software Version 2.1.2.56_D to include Federal Security Update 2 with Codian Media Service Engine (MSE) 8321 Integrated Services Digital Network (ISDN) Gateway version 2.1(1.43)P

Table 2. SUT FRs and Interoperability Status (continued)

NOTES (continued):			
4. The SUT does not fully support DSCP tagging per the reference. All IPv6 traffic and IPv4 Signaling and OA&M traffic is untagged at Best Effort (0), configuration of full range 0-63 is not fully supported and only IPv4 voice and video media is tagged. DISA has accepted and approved the vendor's POA&M and re-adjudicated (April 02, 2013) this discrepancy as having a minor operational impact.			
5. The SUT does not support Dual Stack IPv6. The SUT can be configured for IPv4 or IPv6. DISA re-adjudicated (April 02, 2013) this discrepancy as minor because the SUT can include a second identical gateway to meet the dual-stack requirements.			
6. Security is tested by DISA-led Information Assurance test teams and published in a separate report, Reference (g).			
LEGEND:			
APL	Approved Products List	IPv4	Internet Protocol version 4
C	Conditional	IPv6	Internet Protocol version 6
C2	Command and Control	ISDN	Integrated Services Digital Network
DISA	Defense Information Systems Agency	ITU-T	International Telecommunication Union – Telecommunication Standardization Sector
DISN	Defense Information System Network	JITC	Joint Interoperability Test Command
DSCP	Differentiated Services Code Point	Mbps	Megabits per seconds
DSN	Defense Switched Network	OA&M	Operational Administration and Maintenance
FRs	Functional Requirements	PRI	Primary Rate Interface
FTR	Federal Telecommunications Recommendation	POA&M	Plan of Action and Milestones
GR	Generic Requirement	R	Required
GR-815	Generic Requirements For Network Element/Network System (NE/NS) Security	STIGs	Security Technical Implementation Guides
H.320	Standard for narrowband VTC	SUT	System Under Test
H.323	Standard for multi-media communications on packet-based networks	T1	Digital Transmission Link Level 1 (1.544 Mbps)
IAS	Integrated Access Switch	UC	Unified Capabilities
IP	Internet Protocol	UCR	Unified Capabilities Requirements
		VTC	Video Teleconferencing

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/>.

JITC Memo, JTE, Extension of the Special Interoperability Test Certification of Vidyo Video Conferencing System with Software Version 2.1.2.56_D to include Federal Security Update 2 with Codian Media Service Engine (MSE) 8321 Integrated Services Digital Network (ISDN) Gateway version 2.1(1.43)P

6. The JITC point of contact is Mr. Dale Fulton, DSN 879-0507, commercial (520) 538-0507, FAX DSN 879-4347, or e-mail to dale.h.fulton.civ@mail.mil. JITC's mailing address is P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The tracking number for the SUT is 1034101.

FOR THE COMMANDER:

Enclosure a/s


for RICHARD A. MEADOR
Chief
Battlespace Communications Portfolio

Distribution (electronic mail):

DoD CIO
Joint Staff J-6, JCS
USD(AT&L)
ISG Secretariat, DISA, JTA
U.S. Strategic Command, J665
US Navy, OPNAV N2/N6FP12
US Army, DA-OSA, CIO/G-6 ASA(ALT), SAIS-IOQ
US Air Force, A3CNN/A6CNN
US Marine Corps, MARCORSSYSCOM, SIAT, A&CE Division
US Coast Guard, CG-64
DISA/TEMC
DIA, Office of the Acquisition Executive
NSG Interoperability Assessment Team
DOT&E, Netcentric Systems and Naval Warfare
Medical Health Systems, JMIS IV&V
HQUSAISEC, AMSEL-IE-IS
UCCO

ADDITIONAL REFERENCES

- (c) Office of the Assistant Secretary of Defense, "Department of Defense Unified Capabilities Requirements 2008, Change 1," 22 January 2010
- (d) Joint Interoperability Test Command, "Defense Switched Network Generic Switch Test Plan (GSTP), Change 2," 2 October 2006
- (e) Office of the Assistant Secretary of Defense, "Department of Defense Unified Capabilities Requirements 2008 Change 3," 11 September 2011
- (f) Joint Interoperability Test Command, Memo, JTE, "Special Interoperability Test Certification of Vidyo Video Conferencing System with Software Version 2.1.1.11_D with Codian Media Service Engine (MSE) 8321 Integrated Services Digital Network (ISDN) Gateway version 2.1(1.43)P," 1 May 2012
- (g) Joint Interoperability Test Command, "Information Assurance (IA) Assessment of Vidyo Conferencing System Release (Rel.) 2.1.1.11D (Tracking Number 1034101)," 11 April 2012