



DEFENSE INFORMATION SYSTEMS AGENCY

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

MEMORANDUM FOR DISTRIBUTION

22 Aug 11

SUBJECT: Extension of Special Interoperability Test Certification of Real Time Monitors, Inc. Switch Expert Release 7.0

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 (e), 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. Real Time Monitors, Inc Switch Expert Release 7.0 is hereinafter referred to as the system under test (SUT). The SUT met the interface and functional requirements for a Customer Premise Equipment (CPE) telecommunications management system as set forth in Reference (c). The SUT is certified only with specified Avaya digital switching systems listed within this document and listed on the Unified Capabilities (UC) Approved Products List (APL). Testing was conducted 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.
3. The extension of this certification is based on Desktop Review (DTR) 2. The original certification is based on interoperability testing conducted by JITC, DISA adjudication of open test discrepancy reports, review of Vendor's Letter of Compliance, and DISA CA recommendation. Interoperability testing was conducted by JITC at the Global Information Grid Network Test Facility, Fort Huachuca, Arizona, from 23 through 27 April 2010 and documented in Reference (e). The DISA CA provided a positive Recommendation on 29 September 2010 based on the security testing completed by DISA-led IA test teams and published in a separate report, Reference (f). This DTR was requested to upgrade the management personal computer (PC) from Windows XP to Windows 7 professional service pack 1 and to upgrade windows server from Windows 2003 to Windows 2008 release 2 service pack 1. This DTR was reviewed by JITC and determined Verification and Validation (V&V) testing would be needed to validate the software upgrade. V&V testing of this DTR was conducted from 11 through 15 April 2011. Based on V&V testing it was determined that the changes associated with this DTR had no

impact on the interoperability features and functions previously certified by JITC. Therefore, JITC approves this DTR. The IA posture has not changed. The original IA approval applies to this DTR. The SUT met all requirements for a CPE device and is certified for use within the Defense Information System Network (DISN).

4. The SUT is certified with all software versions of the digital switching systems depicted in Table 1 which are on the UC APL. Functional Requirements used to evaluate the interoperability of the SUT and the interoperability statuses are depicted in Table 2.

Table 1. SUT Certified Switching System Configurations

Switch Name (See note 1.)	Network Management Functions	Interface
Avaya CS2100 ²	Configuration Management, Fault Management, Performance Management, and Automated Message Accounting	EIA-232 Serial Asynchronous
Avaya CS1000M, CS1000M-SG, Succession DSN M1 Option 61C, and Succession DSN M1 Option 81C ²	Configuration Management, Fault Management, Performance Management, and Automated Message Accounting	EIA-232 Serial Asynchronous
Avaya CS1000E, CS1000M-Cabinet, CS1000M-Chassis, Succession DSN M1 Option 11C Cabinet, and Succession DSN M1 Option 11C chassis ²	Configuration Management, Fault Management, Performance Management, and Automated Message Accounting	EIA-232 Serial Asynchronous
NOTES:		
1 The SUT is certified with all software versions of these digital switching systems which are listed on the UC APL with one exception: The SUT is certified with the Avaya CS2100 with the TDM interfaces only. This excludes VoIP end instruments and the MG9K IP Gateway.		
2 These switches were formerly Nortel products and may be listed on the UC APL under Nortel or Avaya.		
LEGEND:		
APL	Approved Products List	IP Internet Protocol
CS	Communication Server	M1 Meridian 1
DCE	Data Circuit-terminating Equipment	MG9K Media Gateway 9000
DSN	Defense Switched Network	SG Single Group
DTE	Data Terminal Equipment	SUT System Under Test
EIA	Electronic Industries Alliance	TDM Time Division Multiplexing
EIA-232	Standard for defining the mechanical and electrical characteristics for connecting DTE and DCE data communications devices	UC Unified Capabilities
		VoIP Voice over Internet Protocol

Table 2. SUT Functional Requirements and Interoperability Status

Interface	Critical	Certified	Functional Requirements	Status	UCR Reference
Serial EIA-232	No ¹	Yes	In accordance with EIA-232 (C)	Met	5.2.8.1
			Fault Management (C)	Met	5.2.8.3
			Configuration Management (Switch Access) (C)	Met	5.2.8.4
			Automated Message Accounting (C)	Met	5.2.8.5
			Performance Management (C)	Met	5.2.8.6
	Yes	Yes	Security (R)	See note 2.	Section 3

NOTES:
 1 The SUT is a CPE device that provides network monitoring functions. Therefore, the SUT interfaces are based on the UCR, section 5.2.8.1. The Network Management interoperability requirement can be met with any of the following interfaces: Ethernet, asynchronous serial, or synchronous serial.
 2 Security is tested by DISA-led Information Assurance test teams and published in a separate report, Reference (e).

LEGEND:
 C Conditional
 CPE Customer Premises Equipment
 DCE Data Circuit-terminating Equipment
 DISA Defense Information Systems Agency
 DTE Data Terminal Equipment
 EIA Electronic Industries Alliance
 EIA-232 Standard for defining the mechanical and electrical characteristics for connecting DTE and DCE data communications devices
 R Required
 SUT System Under Test
 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). 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), or <http://199.208.204.226> (SIPRNet). 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.

6. The JITC point of contact is Ms. Anita Mananquil, DSN 879-5164, commercial (520) 538-5164, FAX DSN 879-4347, or e-mail to anita.mananquil@disa.mil. The JITC’s mailing address is P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The tracking number for the SUT is 1001104.

FOR THE COMMANDER:

Enclosure a/s


 for BRADLEY A. CLARK
 Chief
 Battlespace Communications Portfolio

JITC Memo, JTE, Extension of Special Interoperability Test Certification of Real Time Monitors, Inc. Switch Expert Release 7.0

Distribution (electronic mail):

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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, "Special Interoperability Test Certification of Real Time Monitors, Inc. Switch Expert Release 7.0," 29 September 2010
- (f) Joint Interoperability Test Command, Memo, "Information Assurance (IA) Assessment of Real Time Monitors, Inc Switch Expert Release 7.0 (Tracking Number 1001104)," 29 September 2010