



## DEFENSE INFORMATION SYSTEMS AGENCY

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ARLINGTON, VIRGINIA 22204-4502

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

**9 Nov 09**

### MEMORANDUM FOR DISTRIBUTION

**SUBJECT:** Extension of the Special Interoperability Test Certification of the PlantCML VESTA SL-100 with Software Release 2.3 for use with the Nortel Meridian Switching Load (MSL)-100 and Communication Server (CS)2100 Digital Switching Systems

**References:** (a) DoD Directive 4630.5, "Interoperability and Supportability of Information Technology (IT) and National Security Systems (NSS)," 5 May 2004  
(b) CJCSI 6212.01D, "Interoperability and Supportability of Information Technology and National Security Systems," 8 March 2006  
(c) through (e), see Enclosure

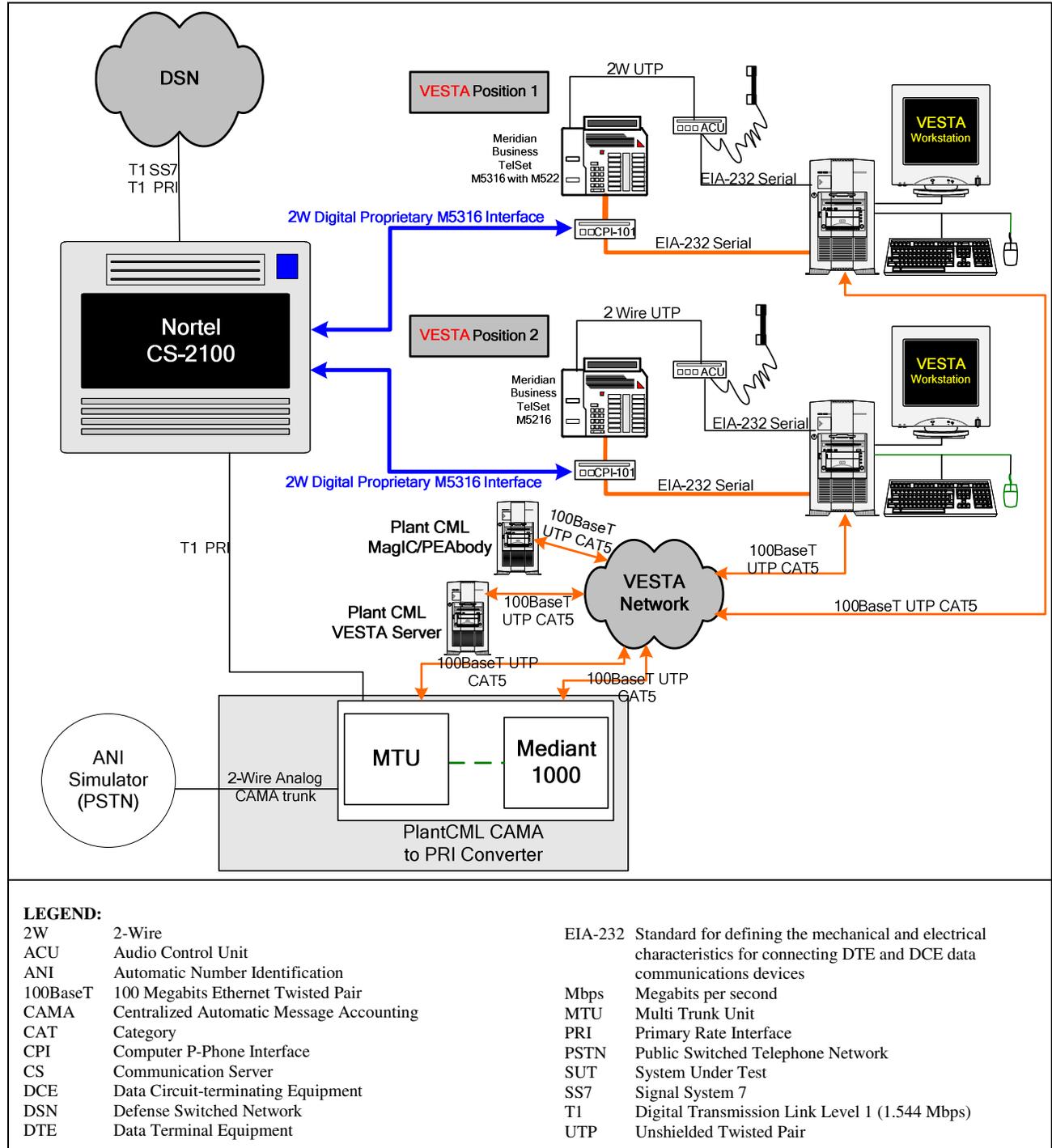
1. References (a) and (b) establish the Defense Information Systems Agency (DISA), Joint Interoperability Test Command (JITC), as the responsible organization for interoperability test certification.

2. The PlantCML VESTA SL-100 with Software Release 2.3 is hereinafter referred to as the System Under Test (SUT). The SUT is for use with MSL-100 and CS2100 Digital Switching Systems, specifically with the Nortel Proprietary M5316 telephone interface. The SUT met the interface and functional requirements for a Customer Premise Equipment (CPE) Enhanced 911 (E911) system as set forth in appendix 7 of Reference (c). The SUT is certified with all Nortel MSL-100 and CS2100 Digital Switching Systems listed on the Unified Capabilities (UC) Approved Product 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 affect interoperability, but no later than three years from the date of the original memorandum (14 November 2007).

3. The extension of this certification is based upon additional testing of a new interface. The original certification is based on interoperability testing and review of the vendor's Letters of Compliance (LoC). Testing of the SUT was conducted at JITC's Global Information Grid Network Test Facility at Fort Huachuca, Arizona, from 17 through 21 September 2007 and documented in Reference (e). Review of the LoC was completed on 1 October 2007. Interoperability testing of a new two-wire analog Centralized Automatic Message Accounting (CAMA) interface with a CAMA to Integrated Services Digital Network (ISDN) Primary Rate Interface (PRI) converter was conducted from 21 through 25 September 2009. This extension includes the new two-wire analog CAMA interface with a CAMA to ISDN PRI converter as

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depicted in Figure 1. This extension also includes software release Vesta V2.3 Vesta 2.3 Feature Pack 1 (FP1) on the following components: VESTA Server, VESTA Workstation 1, and VESTA Workstation 2. This extension was approved on 25 September 2009.



**Figure 1. SUT Test Configuration**

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4. The Functional Requirements 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:

a. The CPE system requirements specified in Reference (c) verified through JITC testing and/or vendor submission of LoC.

b. The overall system interoperability performance was derived from test procedures listed in Reference (d).

**Table 1. SUT Functional Requirements and Interoperability Status**

Interfaces	Critical	Certified	Functional Requirements	Status	GSCR Paragraph
2-Wire Digital Proprietary	Yes	Yes	MLPP in accordance with GSCR, section 3 (C)	Met	A7.5
			FCC Part 15/Part 68 (R)	Met	A7.5
			E911 system interaction in accordance with GR-529 (C)	Met	A7.5
			TIA/EIA-470-B (R)	Met	A7.5.2
2-Wire analog CAMA MFR2	No	Yes	MLPP in accordance with GSCR, section 3 (C)	Met	A7.5
			FCC Part 15/Part 68 (R)	Met	A7.5
			E911 system interaction in accordance with GR-529 (C)	Met	A7.5
ISDN PRI NI2	No	Yes	MLPP in accordance with GSCR, section 3 (C)	Met	A7.5
			FCC Part 15/Part 68 (R)	Met	A7.5
			E911 system interaction in accordance with GR-529 (C)	Met	A7.5
			PCM-24	Met	Section 7.1
IEEE 802.3	No	Yes	Ethernet interfaces shall be in accordance with IEEE 802.3-2002 (C)	Met	A7.5
	Yes	See note.	Security (R)	See note.	A7.6

**NOTE:** Information assurance testing is accomplished via DISA-led Information Assurance test teams and published in a separate report.

**LEGEND:**

802.3	Standard for carrier sense multiple access with collision detection at 10 Mbps	ISDN	Integrated Services Digital Network
A	Appendix	LSSGR	Local Access and Transport Area (LATA) Switching Systems Generic Requirements
C	Conditional	Mbps	Megabits per second
CAMA	Centralized Automatic Message Accounting	MFR2	Multi-Frequency Recommendation 2
DISA	Defense Information Systems Agency	MLPP	Multi-Level Precedence and Preemption
E911	Enhanced 911	PCM-24	Pulse Code Modulation – 24 Channels
EIA	Electronic Industries Alliance	PRI	Primary Rate Interface
FCC	Federal Communications Commission	R	Required
GR	Generic Requirement	SUT	System Under Test
GR-529	LSSGR Public Safety	TIA	Telecommunications Industry Association
GSCR	Generic Switching Center Requirements	TIA/EIA-470-B	Performance and Compatibility Requirements for Telephone Sets with Loop Signaling
IEEE	Institute of Electrical and Electronics Engineers		

5. 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),

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or <http://199.208.204.125> (SIPRNet). Information related to DSN testing is on the Telecom Switched Services Interoperability (TSSI) website at <http://jitc.fhu.disa.mil/tssi>.

6. The JITC point of contact is Mr. Cary Hogan, DSN 879-2589, commercial (520) 538-2589, FAX DSN 879-4347, or e-mail to [cary.hogan@disa.mil](mailto:cary.hogan@disa.mil). The tracking number for the SUT is 0714103. The tracking number for the additional testing to include a new two-wire analog CAMA interface with a CAMA to ISDN PRI converter is 0912001.

FOR THE COMMANDER:



for RICHARD A. MEADOR  
Chief  
Battlespace Communications Portfolio

Enclosure a/s

Distribution (electronic mail):

Joint Staff J-6

Joint Interoperability Test Command, Liaison, TE3/JT1

Office of Chief of Naval Operations, CNO N6F2

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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

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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) Defense Information Systems Agency, "Department of Defense Voice Networks Generic Switching Center Requirements (GSCR), Errata Change 2," 14 December 2006, Revised 27 March 2007
- (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 the PlantCML VESTA SL-100 with Software Release 2.3 for use with the Nortel Meridian Switching Load (MSL)-100 and Communication Server (CS)2100 Digital Switching Systems," 14 November 2007