



DEFENSE INFORMATION SYSTEMS AGENCY

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

01 October 2008

MEMORANDUM FOR DISTRIBUTION

SUBJECT: Extension of the Special Interoperability Test Certification of the Dialogic Communications Corporation (DCC)-USA Communicator! NXT with Software Release 4.0

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 (f), see enclosure

1. References (a) and (b) establish the Defense Information Systems Agency, JITC, as the responsible organization for interoperability test certification.
2. The DCC-USA Communicator! NXT with Software Release 4.0 is hereinafter referred to as the System Under Test (SUT). The SUT meets the interface requirements and all required functional capabilities and is certified for joint use within the Defense Switched Network (DSN). The SUT met the interface and functional requirements for Customer Premise Equipment (CPE) Automated Receiving Devices (ARD) set forth in appendix 7 of reference (c). The SUT analog interface is certified for use with any switching system on the Unified Capabilities Approved Products List (APL) that offers a certified analog interface. The SUT Digital Transmission Link Level 1 (T1) Integrated Services Digital Network (ISDN) Primary Rate Interface (PRI) and T1 Channel Associated Signaling (CAS) interfaces are also certified specifically with the following switches on the DSN APL: the Alcatel-Lucent Class 5 Electronic Switching System (5ESS), Compact Digital Exchange (CDX), and Very Compact Digital Exchange (VCDX), the Avaya S8700, S8710, and S8720, and the Siemens Elektronisches Wählsystem Digital (EWSD). These are the only switches on the DSN APL that properly handle ROUTINE and above precedence calls over T1 interfaces as set forth in section 3.3 of reference (c). 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, or authorized by the Program Management Office for use within the DSN. This certification expires upon changes that affect interoperability, but no later than three years from the date of the original memorandum (14 March 2008).
3. The extension of this certification is based upon a desktop review. The original certification is based on interoperability testing and review of the vendor's Letter of Compliance (LoC). Interoperability testing was conducted by JITC at the Global Information Grid Network Test

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Facility, Fort Huachuca, Arizona, from 17 December 2007 through 22 January 2008 and documented in reference (e). Review of the vendor’s LoC was completed on 31 December 2007. A desktop review was requested to include the D480JCT-T2 card. This card is functionally identical to the 24-port card currently certified and increases the calling capability. The desktop review request was approved on 29 September 2008.

4. The Functional Requirements used to evaluate the interoperability of the SUT and the interoperability status are indicated in table 1. This interoperability test status is based on the SUT’s ability to meet:

- a. CPE automated receiving device requirements specified in reference (c) verified through JITC testing and/or vendor submission of LoC.
- b. The overall system interoperability performance derived from test procedures listed in reference (d).
- c. Assured services as defined in reference (f).

Table 1. SUT Functional Requirements and Interoperability Status

Interface	Critical	Certified	Functional Requirements	Met	GSCR Paragraph
T1 ISDN PRI NI-2 (ANSI T1.607)	No ¹	Yes	PCM-24 (C)	Met	A7.5.5
			FCC Part 15/Part 68 (R)	Met	A7.5
			DISR compliance as applicable (R)	Met	A7.5
			ROUTINE precedence only in accordance with GSCR, Section 3.3 (R)	Met	A7.5
T1 CAS D4/AMI DTMF	No ¹	Yes	PCM-24 (C)	Met	A7.5.5
			DTMF Outpulsing in accordance with GR-506-CORE (C)	Met	A7.5, 5.4.1, 5.4.2
			FCC Part 15/Part 68 (R)	Met	A7.5
			DISR compliance as applicable (R)	Met	A7.5
2-Wire Analog (GR-506-CORE)	No ¹	Yes	ROUTINE precedence only in accordance with GSCR, Section 3.3 (R)	Met	A7.5
			MLPP in accordance with GSCR, Section 3 (C)	Met	A7.5
			Auto Answer mode Settable to more than the equivalency of 4 ROUTINE rings (C)	Met	A7.5
			FCC Part 15/Part 68 (R)	Met	A7.5
			DTMF Outpulsing in accordance with GR-506-CORE (C)	Met	A7.5, 5.4.1, 5.4.2
			DISR compliance as applicable (R)	Met	A7.5
Security	Yes	See note 2.	ROUTINE precedence only in accordance with GSCR, Section 3.3 (R)	Met	A7.5
			Conformance to TIA/EIA-470-B (R)	Met	A7.5.1
			Security (R)	See note 2.	A7.6

NOTES:
¹ The ARD requirements can be met via one of the following interfaces: 2-Wire Analog, 2-Wire Digital, 4-Wire Digital, PCM-24, or PCM-30.
² Security is tested by DISA-led Information Assurance test teams and published in a separate report.

Table 1. SUT Functional Requirements and Interoperability Status

LEGEND:			
A	- Appendix	GR	- Generic Requirement
AMI	- Alternate Mark Inversion	GSCR	- Generic Switching Center Requirements
C	- Conditional	Mbps	- Megabits per second
CAS	- Channel Associated Signaling	MLPP	- Multi-Level Precedence and Preemption
D4	- 4 th generation channel bank	PCM-24	- Pulse Code Modulation - 24 Channels
DISA	- Defense Information Systems Agency	PCM-30	- Pulse Code Modulation - 30 Channels
DISR	- Department of Defense Information Technology Standards Registry (replacement for the Joint Technical Architecture)	R	- Required
DTMF	- Dual Tone Multi-Frequency	SUT	- System Under Test
FCC	- Federal Communications Commission	T1	- Digital Transmission Link Level 1 (1.544 Mbps)

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), 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 Ms. Anita Bickler, DSN 879-5164, commercial (520) 538-5164, FAX DSN 879-4347, or e-mail to anita.bickler@disa.mil. The JITC’s mailing address is P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The tracking number for the SUT is 0722802.

FOR THE COMMANDER:

Enclosure a/s


 RICHARD A. MEADOR
 Chief
 Battlespace Communications Portfolio

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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 (DISA), "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, "Generic Switch Test Plan (GST), Change 2," 2 October 2006
- (e) Joint Interoperability Test Command, Memo, JTE, "Special Interoperability Test Certification of the Dialogic Communications Corporation (DCC)-USA Communicator! NXT with Software Release 4.0," 14 March 2008
- (f) Chairman of the Joint Chiefs of Staff Instruction (CJCSI) 6215.01C, "Policy for Department of Defense Voice Services," 9 November 2007