



DEFENSE INFORMATION SYSTEMS AGENCY

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

10 Sep 09

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 (UC) 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 UC 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 UC 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 Desktop Review (DTR) #2. 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

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Test 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 Communicator! NXT 4.0 Military Software Applications Interface (API). The API enables SUT to transmit mission critical alerts to fielded emergency notification systems. The addition of the API enhances capability while reducing the notification and alerting life cycle. The addition of the API does not require any changes to the core applications, nor does it open any additional ports. The DTR request was approved on 27 May 2009. DSAWG accreditation was granted on 30 July 2009.

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
			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	Yes	See note 2.	Security (R)	See note 2.	A7.6

Table 1. SUT Functional Requirements and Interoperability Status (continued)

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.		
LEGEND:			
A	Appendix	ISDN	Integrated Services Digital Network
AMI	Alternate Mark Inversion	LSSGR	Local Access and Transportation Area (LATA) Switching Systems Generic Requirements
ANSI	American National Standards Institute		
C	Conditional	Mbps	Megabits per second
CAS	Channel Associated Signaling	MLPP	Multi-Level Precedence and Preemption
D4	4 th generation channel bank	N1-2	National ISDN Standard 2
DISA	Defense Information Systems Agency	PCM-24	Pulse Code Modulation - 24 Channels
DISR	Department of Defense Information Technology Standards Registry (replacement for the Joint Technical Architecture)	PCM-30	Pulse Code Modulation - 30 Channels
		PRI	Primary Rate Interface
		R	Required
DTMF	Dual Tone Multi-Frequency	SUT	System Under Test
EIA	Electronic Industries Alliance	T1	Digital Transmission Link Level 1 (1.544 Mbps)
FCC	Federal Communications Commission	T1.607	ISDN – Layer 3 Signaling Specification for Circuit Switch Bearer Service for DSS1
GR	Generic Requirement	TIA	Telecommunication Industry Association
GR-506	LSSGR: Signaling for Analog Interfaces		
GSCR	Generic Switching Center 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 <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


 for 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