



DEFENSE INFORMATION SYSTEMS AGENCY

JOINT INTEROPERABILITY TEST COMMAND

P.O. BOX 12798

FORT HUACHUCA, ARIZONA 85670-2798

IN REPLY
REFER TO:

Battlespace Communications Portfolio (JTE)

20 September 2007

MEMORANDUM FOR DISTRIBUTION

SUBJECT: Special Interoperability Test Certification of REDCOM High Density Exchange (HDX) Digital Switching System with Software Release 2.0A Revision 3, with Specified Patch Group 1 (2.0A R3P1), certified as a Small End Office (SMEO)

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

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. Additional references are provided in the enclosure.
2. The REDCOM HDX Digital Switching System with Software Release 2.0A R3P1 is hereinafter referred to as the System Under Test (SUT). The SUT met all of its critical interoperability requirements and is certified as interoperable for joint use within the Defense Switched Network (DSN). The SUT was tested and met the critical interoperability requirements for the following DSN switch types: Small End Office (SMEO), Private Branch Exchange (PBX) 1, and PBX 2. The SUT offers a Voice over Internet Protocol capability. This capability was not tested and is not covered under this certification. This certification expires upon changes that could affect interoperability, but no later than three years from the date of the original certification memorandum (17 January 2007).
3. This finding is based on interoperability testing and review of the vendor's Letters of Compliance (LoC) conducted by JITC. Interoperability testing was conducted at JITC's Global Information Grid Network Test Facility (GNTF) at Fort Huachuca, Arizona, from 17 July to 1 September 2006, and is documented in reference (c). Review of the vendor's LoC was completed on 11 December 2006. Patch R3P1 was developed to fix a problem noted by the warfighter with an automatic switchover of active and standby processors. Regression testing of the patch update was conducted on 1 through 3 August 2007. No other configurations, features, or functions, except those cited within this report, are certified by the JITC or authorized by the PMO for use on DSN.
4. The interoperability test summary of the SUT is contained in table 1. The SMEO Capability Requirements (CRs) and Feature Requirements (FRs) are listed in table 2. This interoperability test status is based on the SUT's ability to meet:

JITC Memo, JTE, Special Interoperability Test Certification of REDCOM High Density Exchange (HDX) Digital Switching System with Software Release 2.0A, Revision 3, with Specified Patch Group 1 (2.0A R3P1), certified as a Small End Office (SMEO)

- a. DSN services for Network and Applications specified in reference (d).
- b. SMEO interface and signaling requirements for trunks/lines specified in reference (e) verified through JITC testing and/or vendor submission of LoC.
- c. SMEO CRs/FRs specified in reference (e) verified through JITC testing and/or vendor submission of LoC.
- d. The overall system interoperability performance derived from test procedures listed in reference (f).

Table 1. SUT Interoperability Test Summary

DSN Trunk Interfaces			
Interface & Signaling	Critical	Status	Remarks
T1 CAS (DTMF, DP)	Yes	Certified	Met all CRs and FRs.
T1 CAS (MFR1)	No	Certified	Met all CRs and FRs.
E1 CAS (DTMF, MFR1, DP)	Yes (Europe only)	Certified	Met all CRs and FRs.
T1 ISDN PRI NI 1/2 (ANSI T1.619a)	Yes	Certified	Met all CRs and FRs.
E1 ISDN PRI (ITU-T Q.955.3)	No (Europe only)	Certified	Met all CRs and FRs.
T1 SS7 (ANSI T1.619a)	No	Certified	Met all CRs and FRs.
E1 SS7 (ITU-T Q.735.3)	No	Not Tested	This interface is supported; however it was not tested and is not covered under this certification. There was no operational impact because it is not a required interface for a SMEO.
Analog E&M Type I, II and V	Yes	Certified	Met all CRs and FRs.
DSN Line Interfaces			
Interface & Signaling	Critical	Status	Remarks
2-Wire Analog (GR-506-CORE)	Yes	Certified	Met all CRs and FRs with the following minor exceptions: The SUT does not properly support Precedence Call Diversion on an analog set that is configured for Precedence Call Waiting. ¹ The SUT does not support the full complement of CoS tables. ²
ISDN BRI NI 1/2	Yes	Certified	Met all CRs and FRs with the following minor exceptions: The SUT does not support the full complement of CoS tables. ² Full compliance of multiple call appearances for incoming calls was not supported. ³
2-Wire Digital Proprietary	No	Not Tested	This interface is not supported by the SUT. There was no operational impact because it is not a required interface for a SMEO.
DSN Features and Capabilities			
Features and Capabilities	Critical	Status	Remarks
Common Features	Yes	Certified	Met all CRs and FRs.
Attendant	No	Certified	Met all CRs and FRs.
Public Safety	Yes	Certified	Met all CRs and FRs.
Preset Conferencing	No	Certified	Met all CRs and FRs.
DSN Hotline Services	Yes	Certified	Met all CRs and FRs.
Network Management	Yes	Certified	Met all CRs and FRs. The certified network management interface is IEEE 802.3 10BaseT. ⁴
Synchronization	Yes	Certified	Met all CRs and FRs.
Reliability	Yes	Certified	Met all CRs and FRs.
Security	Yes	See note 5.	See note 5.

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Table 1. SUT Interoperability Test Summary (continued)

Network Gateways				
Gateway	Interface & Signaling	Critical	Status	Remarks
PSTN	T1 CAS (DTMF, DP)	Yes	Certified	Met all CRs and FRs.
	T1 CAS (MFR1)	No	Certified	Met all CRs and FRs.
	E1 CAS (DTMF, MFR1, DP)	Yes (Europe only)	Certified	Met all CRs and FRs.
	T1 ISDN PRI NI 1/2 (ANSI T1.607)	Yes	Certified	Met all CRs and FRs.
	E1 ISDN PRI (ITU-T Q.931)	No (Europe only)	Certified	Met all CRs and FRs.
	T1 SS7 (ANSI T1.619a)	No	Certified	Met all CRs and FRs.
	E1 SS7 (ITU-T Q.735.3)	No	Not Tested	This interface is supported; however, it was not tested and is not covered under this certification. There was no operational impact because it is not a required interface for a SMEO.
	Analog E&M Type I, II and V	Yes	Certified	Met all CRs and FRs.
	Ground Start Line	Yes	Certified	Met all CRs and FRs.
DRSN	TPC 2-Wire analog (GR-506-CORE)	No	Certified ⁶	Met all CRs and FRs.

LEGEND:

10BaseT - 10 Mbps (Baseband Operation, Twisted Pair)	E&M - Ear and Mouth	NI 1/2 - National ISDN Standard 1 or 2
Ethernet	E1 - European Basic Multiplex Rate (2.048 Mbps)	PM - Program Manager
802.3 - Standard for carrier sense multiple access with collision detection at 10 Mbps	FRs - Feature Requirements	PRI - Primary Rate Interface
ANSI - American National Standards Institute	GR - Generic Requirement	PSTN - Public Switched Telephone Network
BRI - Basic Rate Interface	GR-506-CORE - Telcordia Signaling for Analog Interface Generic Requirement	Q.735.3 - SS7 Signaling Standard for E1 MLPP
CAS - Channel Associated Signaling	GSCR - Generic Switching Center Requirements	Q.931 - Signaling Standard for ISDN
CoS - Class of Service	IPv4 - Internet Protocol version 4	Q.955.3 - ISDN signaling standard for E1 MLPP
CRs - Capability Requirements	IPv6 - Internet Protocol version 6	SS7 - Signaling System 7
DISA - Defense Information Systems Agency	ISDN - Integrated Services Digital Network	SUT - System Under Test
DP - Dial Pulse	ITU-T - International Telecommunication Union - Telecommunication Standardization Sector	T1 - Digital Transmission Link Level 1 (1.544 Mbps)
DRSN - Defense Red Switch Network	Mbps - Megabits per second	T1.607 - ISDN - Layer 3 Signaling Specification for Circuit Switched Bearer Service for DSS1
DSN - Defense Switched Network	MFR1 - Multifrequency Recommendation 1	T1.619a - SS7 and ISDN MLPP Signaling Standard for T1
DSS1 - Digital Subscriber Signaling 1	MLPP - Multi-Level Precedence and Preemption	TPC - Twisted Pair Copper
DTMF - Dual Tone Multi-Frequency		

NOTES:

- If an analog set, configured for Precedence Call Waiting on the SUT, is ringing with a precedence call above ROUTINE and another precedence call above ROUTINE is placed to the ringing analog set, the precedence call diversion timer does not start until the first call's precedence diversion timers expires and the first call is diverted. This limitation has posed a minor operational impact within the DSN since all calls are eventually diverted.
- The SUT does not support the full complement of CoS tables as specified in the GSCR. The SUT supports 255 CoS tables for analog lines and does not support CoS tables on access lines, number codes, trunks, or groups of trunks. This limitation has posed a minor operational impact within the DSN when assigning lines and trunks on the SUT. This limitation may result in additional time required when initially configuring the SUT.
- The SUT does not support multiple call appearances on the ISDN BRI for incoming calls. MLPP interaction functioned properly. The overall operational impact of the noted discrepancy is minor.
- An IPv6 capable system or product, as defined in the GSCR, paragraph 1.7, shall be capable of receiving, processing, and forwarding IPv6 packets and/or interfacing with other systems and protocols in a manner similar to that of IPv4. IPv6 capability is currently satisfied by a vendor Letter of Compliance signed by the Vice President of the company. The vendor stated, in writing, compliance to the following criteria by 30 June 2008:
 - Conformant with IPv6 standards profile contained in the Department of Defense Information Technology Standards Registry (DISR).
 - Maintaining interoperability in heterogeneous environments and with IPv4.
 - Commitment to upgrade as the IPv6 standard evolves.
 - Availability of contractor/vendor IPv6 technical support.
- Security is tested by DISA-led Information Assurance test teams and published in a separate report.
- Interoperability Certification of the SUT does not constitute DRSN PM's approval for connectivity to the DRSN. It is the user's responsibility to request connectivity approval directly from the PM.

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Table 2. SMEO Requirements

DSN Trunk Interfaces					
Interface	Critical	Requirements Required or Conditional		References	
T1 SS7 (ANSI T1.619a)	No	Trunking	<ul style="list-style-type: none"> Framing (R) Line Code (R) Signaling (R) Alarms (R) 	<ul style="list-style-type: none"> GSCR Section 7 GSCR Section 7 GSCR Section 5 GSCR Section 2.5.7, 7.1.4 & 7.2.2 	
E1 SS7 (ITU-T Q.735.3)	No (Europe only)		<ul style="list-style-type: none"> WWNDP (R) Outpulsing digit formats (R: CAS only) Routing (R) Trunk Groups (R) Call Processing (R) CAS to CCS trunk interworking (C) PCM-24/PCM-30 Interoperation (R) Direct Inward Dialing (C) 	<ul style="list-style-type: none"> GSCR Section 4.5.1 GSCR Section 4.5.2 GSCR Section 4.2 GSCR Section 2.5.5 & 2.5.6 GSCR Section 4 GSCR Section 3.10 GSCR Section 7.3 GSCR Section 2.3.2 	
T1 CAS (MFR1)	No		<ul style="list-style-type: none"> MOS (R) MLPP (R) Secure calls (R) 	<ul style="list-style-type: none"> CJCSI 6215.01B GSCR Section 3 CJCSI 6215.01B 	
T1 CAS (DTMF, DP)	Yes		Facsimile	<ul style="list-style-type: none"> Analog: TIA/EIA-465-A (R) 	<ul style="list-style-type: none"> DISR
E1 CAS (MFR1, DTMF, DP)	Yes (Europe only)		Data	<ul style="list-style-type: none"> Modem (VBD) (R) 56 kbps switched data (C: PRI only) 64 kbps switched data (C: PRI only) NX56 synchronous BER (C: PRI only) NX64 synchronous BER (C: PRI only) Secure data (STE/STU-III) (R) 	<ul style="list-style-type: none"> CJCSI 6215.01B GSCR Section 3.10 GSCR Section 3.10 GSCR Section 3.10 GSCR Section 3.10 CJCSI 6215.01B
T1 ISDN PRI NI 1/2 (ANSI T1.619a)	Yes		VTC	<ul style="list-style-type: none"> ITU-T H.320 (R: PRI only) 	<ul style="list-style-type: none"> DISR
E1 ISDN PRI (ITU-T Q.955.3)	No (Europe Only)				
DSN Line Interfaces					
Interface	Critical	Requirements Required or Conditional		References	
2-Wire Analog (GR-506-CORE)	Yes	Access	<ul style="list-style-type: none"> Directory Number Identification (R) Line signaling (R) Loop Start Line (R: 2-Wire Analog only) Alerting Signals and Tones (R) WWNDP (R) Call Processing (R) Call Treatments (R) 2W user access (R: 2-Wire Analog only) Analog busy/idle (R: 2-Wire Analog only) 	<ul style="list-style-type: none"> GSCR Section 2.1.1 GSCR Section 5.2 GSCR Section 5.2.1 GSCR Section 5.5 GSCR Section 4.5 GSCR Section 4.4 GSCR Section 4.1 GSCR Section 4.3.3 GSCR Section 4.3.4.1 	
ISDN BRI NI 1/2 (ANSI T1.619a)	Yes		Voice	<ul style="list-style-type: none"> MOS (R) Announcements (R) MLPP (R) Secure Calls (R) 	<ul style="list-style-type: none"> CJCSI 6215.01B GSCR Section 3.1.3 GSCR Section 3.4.3/3.9 CJCSI 6215.01B
2W Digital Proprietary	No	Facsimile	<ul style="list-style-type: none"> Analog: TIA/EIA-465-A (R) 	<ul style="list-style-type: none"> DISR 	
VoIP	No	Data	<ul style="list-style-type: none"> Modem (VBD) (R) 56 kbps switched data (R) 64 kbps switched data (R: BRI only) NX56 synchronous BER (R: BRI only) NX64 synchronous BER (R: BRI only) Secure data (STE/STU-III) (R) 	<ul style="list-style-type: none"> CJCSI 6215.01B GSCR Section 3.10 GSCR Section 3.10 GSCR Section 3.10 GSCR Section 3.10 CJCSI 6215.01B 	
		VTC	<ul style="list-style-type: none"> ITU-T H.320 (R: BRI only) 	<ul style="list-style-type: none"> DISR 	

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Table 2. SMEO Requirements (continued)

DSN Features & Capabilities			
Feature/ Capability	Critical	Requirements Required or Conditional	References
Common Features	Yes	<ul style="list-style-type: none"> • Denied originating service (C) • Code restriction and diversion (R) • Call waiting (C) • Three-way calling (C) • Add-on transfer, conference calling, and call hold (C) • Call forwarding (C) • Call pick-up (C) 	<ul style="list-style-type: none"> • GSCR Section 2.1.3 • GSCR Section 2.1.4 • GSCR Section 2.1.5 • GSCR Section 2.1.6 • GSCR Section 2.1.7 • GSCR Section 2.1.8 • GSCR Section 2.1.9
Attendant	No	<ul style="list-style-type: none"> • Initiate all precedence levels (C) • Visual display (C) • Override class of service (C) • Override busy line (C) • Call deflection (C) • Auto recall (C) • Waiting queue (C) 	<ul style="list-style-type: none"> • GSCR Section 2.2.1 • GSCR Section 2.2.2 • GSCR Section 2.2.3 • GSCR Section 2.2.4 • GSCR Section 2.2.5 • GSCR Section 2.2.6 • GSCR Section 2.2.7
Public Safety	Yes	<ul style="list-style-type: none"> • Basic Emergency Service (911) (C) • Trace of terminating calls (R) • Outgoing call trace (R) • Tandem call trace (R) • Trace of a call in progress (R) 	<ul style="list-style-type: none"> • GSCR Section 2.4.1 • GSCR Section 2.4.2 • GSCR Section 2.4.3 • GSCR Section 2.4.4 • GSCR Section 2.4.5
Preset Conferencing	No	<ul style="list-style-type: none"> • Support 10 bridges; 1 originator and 20 conferees per bridge (C) • Assign up to 20 address numbers per bridge (C) • Use KXX codes for bridge access (C) • Conference notification recorded announcement (C) • Auto retrieval and alternate address (C) • Bridge release (C) • Lost connection (C) • Secondary conferencing (C) • Address translation (C) 	<ul style="list-style-type: none"> • GSCR Section 2.6 • GSCR Section 2.6 • GSCR Section 2.6 • GSCR Section 2.6.1 • GSCR Section 2.6.2 • GSCR Section 2.6.3 • GSCR Section 2.6.4 • GSCR Section 2.6.5 • GSCR Section 2.7
DSN Hotline Services	Yes	<ul style="list-style-type: none"> • Hotline restrictions (R) • Auto initiate (R) • Analog and digital (R) • Subscription basis (R) • Protected hotline calling (R) • WWNDP interoperable (R) 	<ul style="list-style-type: none"> • GSCR Section 2.12 • GSCR Section 2.12 • GSCR Section 2.12 • GSCR Section 2.12 • GSCR Section 2.12.1-4 • GSCR Section 2.12.5
Network Management	Yes	<ul style="list-style-type: none"> • Interfaces (R) • Measurements and data generation (R) • Fault management (R) • Configuration management (R) • Accounting management (R) • Performance management (R) • NM controls (C) • Remote access (R) 	<ul style="list-style-type: none"> • GSCR Section 9.1 • GSCR Section 9.2 • GSCR Section 9.3 • GSCR Section 9.4 • GSCR Section 9.5 • GSCR Section 9.6 • GSCR Section 9.7 • GSCR Section 9.8
Synchronization	Yes	<ul style="list-style-type: none"> • Line timing mode (R) • Internal Stratum 4 (R) 	<ul style="list-style-type: none"> • GSCR Section 11.1.1.2 • GSCR Section 11.1.2.2
Reliability	Yes	<ul style="list-style-type: none"> • GR-512-CORE (R) 	<ul style="list-style-type: none"> • GSCR Section 12
Security	Yes	<ul style="list-style-type: none"> • GR-815, STIGs, and DIACAP (replacement for DITSCAP) (R) 	<ul style="list-style-type: none"> • GSCR Section 13

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Table 2. SMEO Requirements (continued)

Network Gateways				
Gateway	Critical	Requirements Required or Conditional		References
PSTN ¹	Yes	Trunking	<ul style="list-style-type: none"> • Positive Identification Control (R) • On-Netting (R) • Off-Netting (R) • Ground Start Line (R) 	<ul style="list-style-type: none"> • CJCSI 6215.01B • CJCSI 6215.01B • CJCSI 6215.01B • GSCR Section 5.2.2
DRSN ²	No	Access	<ul style="list-style-type: none"> • Alerting Signals and Tones (R) • Call Processing (R) • Call Treatments (R) • Analog busy/idle (R) 	<ul style="list-style-type: none"> • GSCR Section 5.5 • GSCR Section 4.4 • GSCR Section 4.1 • GSCR Section 4.3.4.1
		Voice	<ul style="list-style-type: none"> • MOS (C) • MLPP (R) • Secure calls (C) 	<ul style="list-style-type: none"> • CJCSI 6215.01B • GSCR Section 3.1.1 • CJCSI 6215.01B
LEGEND: 2W - 2-Wire ANSI - American National Standards Institute BER - Bit Error Ratio BRI - Basic Rate Interface C - Conditional CAS - Channel Associated Signaling CCS - Common Channel Signaling CJCSI - Chairman of the Joint Chiefs of Staff Instruction DIACAP - DoD Information Assurance Certification and Accreditation Process DISR - DoD IT Standards Registry DITSCAP - DoD IT Security Certification and Accreditation Process DoD - Department of Defense DP - Dial Pulse DSN - Defense Switched Network DRSN - Defense Red Switch Network DTMF - Dual Tone Multi-Frequency E1 - European Basic Multiplex Rate (2.048 Mbps) EIA - Electronic Industries Alliance GR - Generic Requirement (Telcordia) GR-512.CORE - LSSGR: Reliability, Section 12 GR-815 - Generic Requirements For Network Element/Network System (NE/NS) Security GSCR - Generic Switching Center Requirements H.320 - Standard for Narrowband VTC ISDN - Integrated Services Digital Network IT - Information Technology ITU-T - International Telecommunication Union - Telecommunication Standardization Sector LSSGR - Local Access and Transport Area (LATA) Switching Systems Generic Requirements kbps - kilobits per second KXX - K= any number 2-8; X= any number 1-9 Mbps - Megabits per second MFR1 - Multi-Frequency Recommendation 1 MLPP - Multi-Level Precedence and Preemption MOS - Mean Opinion Score NI 1/2 - National ISDN Standard 1 or 2 NM - Network Management NX56 - Data format restricted to multiples of 56 kbps NX64 - Data format restricted to multiples of 64 kbps PCM-24 - Pulse Code Modulation - 24 Channels PCM-30 - Pulse Code Modulation - 30 Channels PRI - Primary Rate Interface PSTN - Public Switched Telephone Network Q.735.3 - SS7 Signaling Standard for E1 MLPP Q.955.3 - ISDN Signaling Standard for E1 MLPP R - Required SMEO - Small End Office SS7 - Signaling System 7 STE - Secure Terminal Equipment STIGs - Security Technical Implementation Guides STU-III - Secure Telephone Unit - 3 rd Generation T1 - Digital Transmission Link Level 1 (1.544 Mbps) T1.619a - SS7 and ISDN MLPP Signaling Standard for T1 TIA - Telecommunications Industry Association TIA/EIA-465-A - Group 3 Facsimile Apparatus for Document Transmission VBD - Variable bit data VTC - Video Teleconferencing WWNDP - Worldwide Numbering and Dialing Plan				
NOTES: 1 Voice, facsimile, data, and VTC service requirements for PSTN are identical to DSN with the exception of MLPP. 2 Facsimile, data, and VTC services are not provided via the DSN to DRSN interface.				

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

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6. The JITC point of contact is Capt. Oskar Widecki, DSN 879-5269, commercial (520) 538-5269, FAX DSN 879-4347, or e-mail to oskar.widecki@disa.mil. The tracking number for the SUT is 600901.

FOR THE COMMANDER:



MANUEL H. GARCIA, JR.

Chief

Battlespace Communications Portfolio

Enclosure a/s

Distribution:

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Defense Intelligence Agency, 2000 MacDill Blvd., Bldg 6000, Bolling AFB, Washington, DC 20340-3342

National Security Agency, ATTN: DT, Suite 6496, 9800 Savage Road, Fort Meade, MD 20755-6496

Director, Defense Information Systems Agency, ATTN: GS235, Room 5W24-8A, P.O. Box 4502, Falls Church, VA 22204-4502

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U.S. Joint Forces Command, J68, Net-Centric Integration, Communications, and Capabilities Division, 1562 Mitscher Ave., Norfolk, VA 23551-2488

Defense Information Systems Agency (DISA), ATTN: GS23 (Mr. McLaughlin), Room 5w23, 5275 Leesburg Pike (RTE 7), Falls Church, VA 22041

ADDITIONAL REFERENCES

- (c) Joint Interoperability Test Command, Memo, JTE, “of REDCOM High Density Exchange (HDX) Digital Switching System with Software Release 2.0A Revision 3, with Specified Patch Group 0 (2.0A R3P0), certified as a Small End Office (SMEO),” 17 January 2007
- (d) Chairman of the Joint Chiefs of Staff Instruction (CJCSI) 6215.01B, “Policy for Department of Defense Voice Services,” 23 September 2001
- (e) Defense Information Systems Agency (DISA), “Defense Switched Network (DSN) New Generic Switching Center Requirements (GSCR), Change 1,” 1 March 2005
- (f) Joint Interoperability Test Command, “Defense Switched Network Generic Switch Test Plan (GSTP), Change 1, Revision 1,” 1 June 2005