



## DEFENSE INFORMATION SYSTEMS AGENCY

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ARLINGTON, VIRGINIA 22204-4502

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

**20 June 2008**

### MEMORANDUM FOR DISTRIBUTION

**SUBJECT:** Extension of the Special Interoperability Test Certification of the K&R Custom Software Inc. Telecommunications Management System (TMS) with Software Release 5.2

**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, Joint Interoperability Test Command (JITC), as the responsible organization for interoperability test certification. Additional references are provided in the enclosure.
2. The K&R Custom Software Inc. TMS with Software Release 5.2 is hereinafter referred to as the System Under Test (SUT). The SUT meets its 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 a Customer Premise Equipment device as set forth in appendix 7 of reference (c). Testing was conducted using test procedures derived from reference (d). The Internet Protocol version 6 requirements set forth in references (c) and (e) were satisfied by the vendor's Letters of Compliance (LoC). This certification expires upon changes that affect interoperability, but no later than three years from the date of the original memorandum (3 January 2007).
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 LoC. Interoperability testing was conducted by JITC at the Global Information Grid Network Test Facility, Fort Huachuca, Arizona, from 16 through 25 October 2006 and documented in reference (f). Review of the vendor's LoC was completed on 7 December 2006. After the original certification was signed, the vendor submitted a request to include Ascentria DL50 model serial buffer instead of the Omnitronix DL30 model serial buffer. The desktop review was completed on 28 May 2008.
4. The Functional Requirements used to evaluate the interoperability of the SUT and the interoperability statuses are indicated in table 1.

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

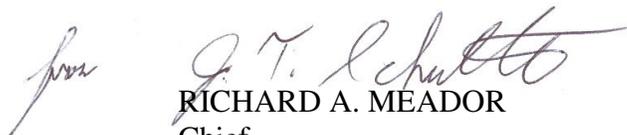
Interface	Critical	Certified	Functional Requirements	Met	GSCR Paragraph
Serial EIA-232	No <sup>1</sup>	Yes	In accordance with EIA-232 (C)	Met	A.7.5
			Configuration Management (C)	Met	
			Fault management (C)	Met	
			Performance management (C)	Met	
			Call Detail Records management (C)	Met	
IEEE 802.3 Ethernet <sup>2</sup>	No <sup>1</sup>	Yes	Call Detail Records management (C)	Met	A.7.5
	Yes	See note 3.	Security (R)	See note 3.	A7.6.5
<b>LEGEND:</b> 802.3 - Standard for carrier sense multiple access with collision detection at 10 Mbps A - Appendix C - Conditional DISA - Defense Information Systems Agency EIA - Electronic Industries Alliance EIA-232 - Standard for defining the mechanical and electrical characteristics for connecting Data Terminal Equipment and Data Circuit-terminating Equipment data communications devices GSCR - Generic Switching Center Requirements IEEE - Institute of Electrical and Electronics Engineers, Inc. IPv4 - Internet Protocol version 4 IPv6 - Internet Protocol version 6 LoC - Letters of Compliance Mbps - Megabits per second PCM-24 - Pulse Code Modulation - 24 Channels PCM-30 - Pulse Code Modulation - 30 Channels R - Required SUT - System Under Test					
<b>NOTES:</b> 1 The SUT interoperability requirement can be met with any of the following interfaces: Ethernet, analog, digital, serial, PCM-24, or PCM-30. 2 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 LoC signed by the Vice President of the company. The vendor stated, in writing, compliance to the following criteria by 30 June 2008: (a) Conformance with IPv6 standards profile contained in the Department of Defense Information Technology Standards Registry (DISR). (b) Maintaining interoperability in heterogeneous environments and with IPv4. (c) Commitment to upgrade as the IPv6 standard evolves. (d) Availability of contractor/vendor IPv6 technical support. 3 Security is tested by DISA-led Information Assurance test teams and published in a separate report.					

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), 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 Mike Napier, DSN 879-6787, commercial (520) 538-6787, FAX DSN 879-4347, or e-mail to [michael.napier@disa.mil](mailto:michael.napier@disa.mil). The JITC's mailing address is P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The tracking number for the SUT is 0527901.

FOR THE COMMANDER:

Enclosure a/s

  
 RICHARD A. MEADOR  
 Chief  
 Battlespace Communications Portfolio

JITC Memo, JTE, Extension of the Special Interoperability Test Certification of the K&R Custom Software Inc. Telecommunications Management System (TMS) with Software Release 5.2

Distribution:

Joint Staff J6I, Room 1E596, Pentagon, Washington, DC 20318-6000

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Defense Information Systems Agency, Net-Centricity Requirements and Assessment Branch, ATTN: GE333, Room 244, P.O. Box 4502, Falls Church, VA 22204-4502

Office of Chief of Naval Operations (N71CC2), CNO N6/N7, 2000 Navy Pentagon, Washington, DC 20350

Headquarters U.S. Air Force, AF/XICF, 1800 Pentagon, Washington, DC 20330-1800

Department of the Army, Office of the Secretary of the Army, CIO/G6, ATTN: SAIS-IOQ, 107 Army Pentagon, Washington, DC 20310-0107

U.S. Marine Corps (C4ISR), MARCORSSYSCOM, 2200 Lester St., Quantico, VA 22134-5010

DOT&E, Net-Centric Systems and Naval Warfare, 1700 Defense Pentagon, Washington, DC 20301-1700

U.S. Coast Guard, CG-64, 2100 2nd St. SW, Washington, DC 20593

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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

Office of Assistant Secretary of Defense (NII)/DoD CIO, Crystal Mall 3, 7th Floor, Suite 7000, 1851 S. Bell St., Arlington, VA 22202

Office of Under Secretary of Defense, AT&L, Room 3E144, 3070 Defense Pentagon, Washington, DC 20301

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. Osman), Room 5w23, 5275 Leesburg Pike (RTE 7), Falls Church, VA 22041

## **ADDITIONAL REFERENCES**

- (c) Defense Information Systems Agency, "Department of Defense Voice Networks Generic Switching Center Requirements (GSCR), Incorporated Change 1," 1 March 2005
- (d) Joint Interoperability Test Command, "Defense Switched Network Generic Switch Test Plan (GSTP), Change 1, Revision 1" 1 June 2005.
- (e) Executive Office of the President, "Transition Planning for Internet Protocol version 6 (IPv6)," 2 August 2005
- (f) JITC Memo, JTE, "Special Interoperability Test Certification of the K&R Custom Software Inc. Telecommunications Management System (TMS) with Software Release 5.2," 3 January 2007