



DEFENSE INFORMATION SYSTEMS AGENCY

P. O. BOX 4502
ARLINGTON, VIRGINIA 22204-4502

IN REPLY
REFER TO:

Joint Interoperability Test Command (JTE)

24 June 2008

MEMORANDUM FOR DISTRIBUTION

SUBJECT: Extension of the Special Interoperability Test Certification of the Foundry Assured Services Voice Application Local Area Network (ASVALAN) and Voice Application Local Area Network (VALAN) with Specified Software Releases

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 Foundry ASVALAN and VALAN with Specified Software Releases is hereinafter referred to as the system under test (SUT). The SUT meets all of its critical interoperability requirements and is certified as interoperable for joint use within the Defense Switched Network (DSN). The SUT is certified for joint use within the DSN with the Digital Switching Systems on the DSN Approved Products List (APL) which are certified for use with an ASVALAN or VALAN. The SUT components which are bolded and underlined in the tables throughout this certification letter are components that were tested in the JITC laboratory for this certification. The SUT components which are not bolded and not underlined, but also listed throughout the tables in this letter, are certified for joint use in the DSN as well. The JITC analysis determined these components contain the same hardware and software and are functionally identical to the tested components for interoperability certification purposes. The SUT is certified to support DSN assured services over Internet Protocol as an ASVALAN. If a system meets the minimum requirements for an ASVALAN, it also meets the lesser requirements for a VALAN. However, since VALANs do not support the Assured Services Requirements detailed in reference (c), Command and Control (C2) users and Special C2 users are not authorized to be served by a VALAN. Since VALANs do not support Assured Services, they can only serve Department of Defense (DoD), non-DoD, non-governmental, and foreign government users having no missions or communications requirement to ever originate or receive C2 communications. VALAN connectivity to the DSN is not authorized until a waiver is granted by the Joint Staff for each site. The SUT is certified for joint use as a VALAN for non-C2 traffic. The VALAN requirements differing from those of an ASVAL include:

- C2 traffic shall not traverse a VALAN.
- Reliability is a conditional requirement for a VALAN.

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- Network Management features are conditional requirements for a VALAN.

Testing did not include video services or data applications; however, simulated data traffic was generated during testing to determine its effect on voice traffic. 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 could affect interoperability, but no later than three years from the date of the original memorandum (10 December 2007).

3. The extension of this certification is based upon a desktop review. The original certification is based on interoperability testing conducted by JITC and a review of the vendor's Letters of Compliance (LoC). Testing was conducted at JITC's Global Information Grid Network Test Facility at Fort Huachuca, Arizona, from 23 July through 31 August 2007. Review of the vendor's LoC was completed on 5 October 2007. A desktop review was requested to include the BigIron RX in the core layer. The desktop review request was approved on 20 June 2008.

4. The overall interoperability status of the SUT is indicated in table 1. The ASVALAN and VALAN system requirements are listed in table 2. In addition to system level requirements, components that comprise the SUT must meet specific criteria to be certified for use as core, distribution, or access components. The interoperability status of the SUT components is listed in table 3. The ASVALAN and VALAN requirements used to certify the components are listed in table 4. This interoperability test status is based on the SUT's ability to meet:

- a. Assured services as defined in reference (c).
- b. Local Area Network system requirements specified in reference (e) verified through JITC testing and/or vendor submission of LoC.
- c. Internet Protocol version 6 requirements specified in reference (e), paragraph 1.7, table 1-4, verified through vendor submission of LoC signed by the Vice President of the company.
- d. The overall system interoperability performance derived from test procedures listed in reference (f).

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Table 1. SUT Interoperability Status

System Interoperability Status			
Components (See note.)	Release	Status	Remarks
Foundry NetIron XMR 4000/8000/16000/32000	3.3.0e	Certified	All ASVALAN and VALAN system requirements were met when the SUT was configured in accordance with architecture provided in reference (d). Additional details about component level certification are provided in table 3. Security testing is accomplished through DISA-led Information Assurance Test teams and published in a separate report.
Foundry NetIron MLX 4/8/16/32	3.3.0e		
Foundry BigIron RX 4/8/16/32	2.3.0e		
Foundry BigIron 4000/8000/15000	8.0.01k		
FastIron SX 800/SX 1600	3.3.00		
FastIron FESX424-PoE/ FESX424/FESX424HF/ FESX448	3.3.00		
FastIron GS648P-PoE GS624P-PoE/LS648/LS624	3.2.00		
FastIron Edge 4802-PoE/2402-PoE	3.7.00a		
LEGEND: ASVALAN - Assured Services Voice Application Local Area Network PoE - Power over Ethernet DISA - Defense Information Systems Agency SUT - System Under Test JITC - Joint Interoperability Test Command VALAN - Voice Application Local Area Network			
NOTE: Components bolded and underlined were tested by JITC. The other components in the family series were not tested; however, they utilize the same software and hardware and JITC analysis determined them to be functionally identical for interoperability certification purposes and they are also certified for joint use.			

Table 2. ASVALAN and VALAN System Requirements

System Requirements			
Requirement	Criteria	Reference	Required
Delay	One-way packet delay for voice packets of an established call (signaling and media) shall be 5 ms or less averaged over any 5-minute period.	GSCR, Appendix 3, Section A.3.3.1.1	Yes
Jitter	For voice media packets, jitter shall be 5 ms or less averaged over any 5-minute period.	GSCR, Appendix 3, Section A.3.3.1.2	Yes
Packet Loss	Voice packet loss within the LAN shall not exceed 0.05% averaged over any 5-minute period.	GSCR, Appendix 3, Section A.3.3.1.3	Yes
Reliability	ASVALAN - ASVALANs shall have a reliability of .99999 - No single point of failure for outage of more than 64 telephony subscribers - Network Path restores within 2 seconds	GSCR, Appendix 3, Section A.3.3.4.1	Yes
	VALAN - This requirement is conditional for a VALAN.	GSCR, Appendix 3, Section A.3.3.4.1	No
IPv6 ¹	All IP devices shall be IPv6 capable.	GSCR, Paragraph 1.7, and GSCR Appendix 3, Section A3.2.8	Yes
Security ²	DIACAP (replacement for DITSCAP)/IA	GSCR, Appendix 3, Section A.3.3.4.3	Yes
LEGEND: ASVALAN - Assured Services Voice Application LAN IP - Internet Protocol DIACAP - DoD IA Certification and Accreditation Process IPv4 - Internet Protocol version 4 DISA - Defense Information Systems Agency IPv6 - Internet Protocol version 6 DITSCAP - DoD IT Security Certification and Accreditation Process IT - Information Technology DoD - Department of Defense LAN - Local Area Network GSCR - Generic Switching Center Requirements ms - milliseconds IA - Information Assurance VALAN - Voice Application LAN			
NOTES: 1 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 must state, in writing, compliance to the following criteria by: a. Conformance with IPv6 standards profile contained in the DoD IT 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. 2 Security testing is accomplished via DISA-led Information Assurance test teams and published in a separate report.			

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Table 3. SUT Component Interoperability Status

Component Interoperability Status					
Component (See note.)	Release	Sub-component (See note.)	Status	Layer (s)	Remarks
Foundry NetIron XMR 4000/8000/16000/32000	3.3.0e	<u>NI-XMR-MR</u>	Certified	Core, Distribution, Access	All CRs and FRs were met.
		NI-XMR-32-MR	Certified		
		NI-X-SF1	Certified		
		<u>NI-X-SF3</u>	Certified		
		NI-X-32-SF	Certified		
		<u>NI-XMR-10Gx4</u>	Certified		
		NI-XMR-10Gx2	Certified		
		<u>NI-XMR-1Gx20-SFP</u>	Certified		
<u>NI-XMR-1Gx20-GC</u>	Certified				
Foundry NetIron MLX 4/8/16/32	3.3.0e	<u>NI-XMR-MR</u>	Certified	Core, Distribution, Access	All CRs and FRs were met.
		NI-XMR-32-MR	Certified		
		NI-X-SF1	Certified		
		<u>NI-X-SF3</u>	Certified		
		NI-X-32-SF	Certified		
		<u>NI-XMR-10Gx4</u>	Certified		
		NI-XMR-10Gx2	Certified		
		<u>NI-XMR-1Gx20-SFP</u>	Certified		
<u>NI-XMR-1Gx20-GC</u>	Certified				
Foundry BigIron RX 4/8/16/32	2.3.0e	<u>RX-BI-MR</u>	Certified	Core, Distribution, Access	All CRs and FRs were met.
		RX-BI-MR2	Certified		
		RX-BI-32-MR	Certified		
		RX-BI-32-MR2	Certified		
		RX-BI-SFM1	Certified		
		<u>RX-BI-SFM3</u>	Certified		
		RX-BI-32-SFM	Certified		
		RX-BI2XG	Certified		
		<u>RX-BI4XG</u>	Certified		
		<u>RX-BI24C</u>	Certified		
		<u>RX-BI24HF</u>	Certified		
RX-BI48T	Certified				
Foundry BigIron 4000/8000/15000	8.0.01k	<u>J-BxGMR4</u>	Certified	Core, Distribution, Access	All CRs and FRs were met.
		J-B2GMR4	Certified		
		J-BxG	Certified		
		J-B16Gx	Certified		
		J-B16GC	Certified		
		<u>J-B48E</u>	Certified		
		J-B48T	Certified		
FastIron SX 800/SX 1600	3.3.00	<u>SX-FIZMR</u>	Certified	Access	All CRs and FRs were met.
		<u>SX-FI424F</u>	Certified		
		<u>SX-FI42XG</u>	Certified		
		SX-FI42XGW	Certified		
		<u>SX-FI424P</u>	Certified		
		SX-FI424C	Certified		
FastIron FESX424-PoE/FESX424/FESX424HF/FESX448	3.3.00	Not Applicable	Certified	Access	All CRs and FRs were met.

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Table 3. SUT Component Interoperability Status (continued)

Component Interoperability Status					
Component (See note.)	Release	Sub-component (See note.)	Status	Layer (s)	Remarks
<u>FastIron GS648P-PoE/GS624P-PoE/LS648/LS624</u>	3.2.00	Not Applicable	Certified	Access	All CRs and FRs were met.
<u>FastIron Edge 4802-PoE/2402-PoE</u>	3.7.00a	Not Applicable	Certified	Access	All CRs and FRs were met.
LEGEND: CRs - Capability Requirements FRs - Feature Requirements JITC - Joint Interoperability Test Command PoE - Power over Ethernet SUT - System Under Test					
NOTE: Components bolded and underlined were tested by JITC. The other components in the family series were not tested; however, they utilize the same software and hardware and JITC analysis determined them to be functionally identical for interoperability certification purposes and they are also certified for joint use.					

Table 4. ASVALAN and VALAN Component Requirements

Core/Distribution/Access Component Requirements				
Requirement	Criteria		Reference	Required
CoS Models	LAN components shall support IEEE 802.1p to DSCP mapping and at least one of the following: - IEEE 802.1p/Q priority tagging/VLAN tagging - DSCP - ToS		GSCR, Appendix 3, Section A.3.3.2.1	Yes
Traffic Prioritization	Traffic within LAN components shall be prioritized so that voice signaling receives highest priority, voice media second highest priority, and data lowest priority.		GSCR, Appendix 3, Section A.3.3.2.2	Yes
QoS	LAN components shall support one of the following: - Priority Queuing - Custom Queuing - Weighted Fair Queuing - Class Based Weighted Fair Queuing		GSCR, Appendix 3, Section A.3.3.3.1	Yes
Policing	LAN components shall support one of the following: - DSCP PHB - Generic Traffic Shaping - Class-Based Shaping		GSCR, Appendix 3, Section A.3.3.3.2	Yes
VLANs	LAN components shall support: - Port based VLANs - MAC address based VLANs - Protocol based VLANs		GSCR, Appendix 3, Section A.3.3.3.3	Yes
IEEE Conformance	LAN components shall support: - IEEE 802.1d – Bridging - IEEE 802.1p/Q – Priority tagging/VLAN tagging - IEEE 802.1s – Per-VLAN Group Spanning Tree - IEEE 802.1v – VLAN Classification by port and protocol - IEEE 802.1w – Rapid Reconfiguration of Spanning Tree - IEEE 802.1x – Port Based Network Access Control - IEEE 802.3ad – Link Aggregation Protocol		GSCR, Appendix 3, paragraph A.3.3.4	Yes
Reliability	ASVALAN	LAN components shall support: - ASVALAN components shall have a reliability of .99999 or better - Dual power supplies and dual processors (more than 64 users) - N+1 sparing for access (more than 64 users) - Redundancy protocol ¹ - 2 second path restoral	GSCR, Appendix 3, Section A.3.3.4.1	Yes
	VALAN	This requirement is conditional for a VALAN.	GSCR, Appendix 3, Section A.3.3.4.1	No

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Table 4. ASVALAN and VALAN Component Requirements (Continued)

Core/Distribution/Access Component Requirements																																																																																				
Requirement	Criteria		Reference	Required																																																																																
Network Management	ASVALAN	LAN components shall support: - In-band or out-of-band management - SNMP - Measurements	GSCR, Appendix 3, Section A.3.3.4.2	Yes																																																																																
	VALAN	This requirement is conditional for a VALAN.	GSCR, Appendix 3, Section A.3.3.4.2	No																																																																																
Security	LAN components shall employ the Network Infrastructure and VoIP STIGs. ²		GSCR, Appendix 3, Section A.3.3.4.3	Yes																																																																																
IPv6	All IP devices shall be IPv6 capable. ³		GSCR, Paragraph 1.7, and GSCR Appendix 3, Section A3.2.8	Yes																																																																																
TE	ASVALAN	- ASVALAN components shall be engineered for a maximum of 25% voice traffic per link. ⁴ - For more than 64 users, link pairs (redundant links) must be used.	GSCR, Appendix 3, Section A.3.3.4.4	Yes																																																																																
	VALAN	VALAN components shall be engineered for a maximum of 25% voice traffic per link. ⁴	GSCR, Appendix 3, Section A.3.3.4.4	Yes																																																																																
<p>LEGEND:</p> <table border="0"> <tr> <td>802.1d</td> <td>- Standard for Local and Metropolitan Area Networks: MAC Bridges</td> <td>GSCR</td> <td>- Generic Switching Center Requirements</td> </tr> <tr> <td>802.1p</td> <td>- LAN Layer 2 QoS/CoS Protocol for Traffic Prioritization</td> <td>IEEE</td> <td>- Institute of Electrical and Electronics Engineers, Inc.</td> </tr> <tr> <td>802.1Q</td> <td>- Standards for Local and Metropolitan Area Networks: Virtual Bridged Local Area Networks</td> <td>IP</td> <td>- Internet Protocol</td> </tr> <tr> <td>802.1s</td> <td>- Standard for Local and Metropolitan Area Networks - Amendment 3 to 802.1Q Virtual Bridged Local Area Networks: Multiple Spanning Trees</td> <td>IPv4</td> <td>- Internet Protocol version 4</td> </tr> <tr> <td>802.1v</td> <td>- Standard for Local and Metropolitan Area Networks - Virtual Bridge Local Area Networks - Amendment 2: VLAN Classification by Protocol and Port (Amendment to IEEE 802.1Q, 1998 Edition)</td> <td>IPv6</td> <td>- Internet Protocol version 6</td> </tr> <tr> <td>802.1w</td> <td>- Standard for Local and metropolitan area networks - Common Specifications - Part 3: Media Access Control (MAC) Bridges: Rapid Configuration</td> <td>LAN</td> <td>- Local Area Network</td> </tr> <tr> <td>802.1x</td> <td>- Standard for Local and Metropolitan Area Networks Port-Based Network Access Control</td> <td>MAC</td> <td>- Media Access Control</td> </tr> <tr> <td>802.3ad</td> <td>- Standard for Information Technology - Local and Metropolitan Area Networks - Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications--Aggregation of Multiple Link Segments</td> <td>Mbps</td> <td>- Megabits per second</td> </tr> <tr> <td>ASVALAN</td> <td>- Assured Services Voice Application LAN</td> <td>N</td> <td>- total VoIP users / 64</td> </tr> <tr> <td>CoS</td> <td>- Class of Service</td> <td>OSPFV.3</td> <td>- Open Shortest-Path First Version 3</td> </tr> <tr> <td>DISA</td> <td>- Defense Information Systems Agency</td> <td>PHB</td> <td>- Per Hop Behaviors</td> </tr> <tr> <td>DSCP</td> <td>- Differentiated Services Code Point</td> <td>QoS</td> <td>- Quality of Service</td> </tr> <tr> <td></td> <td></td> <td>SNMP</td> <td>- Simple Network Management Protocol</td> </tr> <tr> <td></td> <td></td> <td>STIGs</td> <td>- Security Technical Implementation Guides</td> </tr> <tr> <td></td> <td></td> <td>TE</td> <td>- Traffic Engineering</td> </tr> <tr> <td></td> <td></td> <td>ToS</td> <td>- Type of Service</td> </tr> <tr> <td></td> <td></td> <td>VALAN</td> <td>- Voice Application LAN</td> </tr> <tr> <td></td> <td></td> <td>VLANS</td> <td>- Virtual LANs</td> </tr> <tr> <td></td> <td></td> <td>VoIP</td> <td>- Voice over Internet Protocol</td> </tr> <tr> <td></td> <td></td> <td>VRRP</td> <td>- Virtual Router Redundancy Protocol</td> </tr> </table> <p>NOTES:</p> <ol style="list-style-type: none"> For core and distribution components, OSPF V.3 redundancy protocol shall be the routing protocol supported. For access components, redundancy protocol shall be VRRP or equivalent protocol. Verified using the Information Assurance Test Plan. Results of the security testing are published in a separate test report generated by the DISA Information Assurance test personnel. 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 must state, in writing, compliance to the following criteria: <ol style="list-style-type: none"> 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. Instruments connected to an access device must provide a minimum of a 10 Mbps full duplex link. For core and distribution connections, the minimum link capacity is 100 Mbps full duplex. 					802.1d	- Standard for Local and Metropolitan Area Networks: MAC Bridges	GSCR	- Generic Switching Center Requirements	802.1p	- LAN Layer 2 QoS/CoS Protocol for Traffic Prioritization	IEEE	- Institute of Electrical and Electronics Engineers, Inc.	802.1Q	- Standards for Local and Metropolitan Area Networks: Virtual Bridged Local Area Networks	IP	- Internet Protocol	802.1s	- Standard for Local and Metropolitan Area Networks - Amendment 3 to 802.1Q Virtual Bridged Local Area Networks: Multiple Spanning Trees	IPv4	- Internet Protocol version 4	802.1v	- Standard for Local and Metropolitan Area Networks - Virtual Bridge Local Area Networks - Amendment 2: VLAN Classification by Protocol and Port (Amendment to IEEE 802.1Q, 1998 Edition)	IPv6	- Internet Protocol version 6	802.1w	- Standard for Local and metropolitan area networks - Common Specifications - Part 3: Media Access Control (MAC) Bridges: Rapid Configuration	LAN	- Local Area Network	802.1x	- Standard for Local and Metropolitan Area Networks Port-Based Network Access Control	MAC	- Media Access Control	802.3ad	- Standard for Information Technology - Local and Metropolitan Area Networks - Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications--Aggregation of Multiple Link Segments	Mbps	- Megabits per second	ASVALAN	- Assured Services Voice Application LAN	N	- total VoIP users / 64	CoS	- Class of Service	OSPFV.3	- Open Shortest-Path First Version 3	DISA	- Defense Information Systems Agency	PHB	- Per Hop Behaviors	DSCP	- Differentiated Services Code Point	QoS	- Quality of Service			SNMP	- Simple Network Management Protocol			STIGs	- Security Technical Implementation Guides			TE	- Traffic Engineering			ToS	- Type of Service			VALAN	- Voice Application LAN			VLANS	- Virtual LANs			VoIP	- Voice over Internet Protocol			VRRP	- Virtual Router Redundancy Protocol
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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 Mr. Edward Mellon, DSN 879-5159, commercial (520) 538-5159, FAX DSN 879-4347, or e-mail to Edward.mellon@disa.mil. The JITC's mailing address is P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The tracking number for the SUT is 0703801.

FOR THE COMMANDER:

Enclosure a/s



RICHARD A. MEADOR

Chief

Battlespace Communications Portfolio

Distribution:

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

Joint Interoperability Test Command, Liaison, ATTN: TED/JT1, 2W24-8C, P.O. Box 4502, Falls Church, VA 22204-4502

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

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

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. McLaughlin), Room 5W23, 5275 Leesburg Pike (RTE 7), Falls Church, VA 22041

ADDITIONAL REFERENCES

- (c) Chairman of the Joint Chiefs of Staff Instruction (CJCSI) 6215.01B, "Policy for Department of Defense Voice Services," 23 September 2001
- (d) JITC Memo, JTE, "Special Interoperability Test Certification of the Foundry Assured Services Voice Application Local Area Network (ASVALAN) and Voice Application Local Area Network (VALAN) with Specified Software Releases," 10 December 2007
- (e) Defense Information Systems Agency (DISA), "Defense Switched Network (DSN) Generic Switching Center Requirements (GSCR), Appendix 3, Errata Change 2," 14 December 2006, Revised 27 March 2007
- (f) Joint Interoperability Test Command, "Defense Switched Network Generic Switch Test Plan (GSTP), Change 2," 2 October 2006