



DEFENSE INFORMATION SYSTEMS AGENCY

JOINT INTEROPERABILITY TEST COMMAND

2001 BRAINARD ROAD

FORT HUACHUCA, ARIZONA 85613-7051

IN REPLY
REFER TO: Networks and Transport Division (JTE)

22 June 2004

SUBJECT: Special Interoperability Test Certification of Siemens Elektronisches Wahl-System Digital (EWSD) Switching System Software Release 19d, Patch Set 43 with Specified Software Patch Groups

References: (a) DOD Directive 4630.5, "Interoperability and Supportability of Information Technology (IT) and National Security Systems (NSS)," 5 May 2004
(b) CJCSI 6212.01C, "Interoperability and Supportability of Information Technology and National Security Systems," 20 November 2003

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 Siemens EWSD Digital Switching System with Software Release 19d and specified software patch groups listed in table 4, hereinafter referred to as the system under test (SUT), meets the 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 joint use within the DSN for the following switch types: Multifunction, End Office, Small End Office, Private Branch Exchange (PBX) 1, and PBX 2. The identified test discrepancies shown in reference (c) that remained open after software patches were applied and regression testing was completed have a minor operational impact. This certification expires upon system changes that affect interoperability, but no later than three years from the date of this memorandum.

3. This certification is based on interoperability testing conducted at JITC, Fort Huachuca, AZ, and documented in reference (c), and regression testing of patch set 43 with specified patch groups listed in table 4 conducted from 22 December 2003 through 14 May 2004. The Certification Test Summary shown in reference (c) documents the test results and describes the tested network and system configurations. System interoperability should be verified before deployment in an operational environment that varies significantly from the test environment.

4. The SUT offers a Remote Switching Unit capability. The SUT also offers a Voice over Internet Protocol capability, however neither are covered under this certification. Network Management (NM) capabilities of the SUT were tested in accordance with the DISA NS53 requirements as set forth in references (f) and (g). These references require that a switch provide NM capabilities via either Ethernet, serial (Electronic Industries Alliance-232), or serial (X.25 or BX.25 variant). The SUT meets the NM requirements through the use of X.25 or BX.25 connections. Furthermore, the Enhanced Dual Data Port (EDDP) configuration required by the

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Defense Information System Network-Europe contract statement of requirement was also tested, and is covered by this certification. The EDDP allows for Ethernet NM interfaces and these were also covered under this certification. In order to meet the class of service display requirement for the attendant console, the SUT must be deployed with the Switching Control Center Network Management System. This interoperability test summary is based upon evaluation of:

- a. The following network interfaces as specified in reference (e): DSN, Defense Red Switch Network Gateway, Tactical Network Gateway, North Atlantic Treaty Organization Gateway, and Public Switched Telecommunications Network or Commercial Network Gateway.
- b. Interface and signaling requirements for trunk, line, and network management interfaces, and interoperability ERs and FRs derived from reference (g).
- c. The overall system interoperability performance derived from test procedures listed in reference (h).
- d. Review of Letters of Compliance submitted by Siemens.

Table 1. SUT Interoperability Summary

Network	Critical	Status	Remarks
DSN	Yes	Certified	- VoIP not certified. - Certified as MFS, EO, SMEO, PBX 1 and PBX 2. - RSU not certified. - E1 CAS and CDC certified (DISN-E only). - The identified test discrepancies shown in reference (c) that remained open have an overall minor operational impact.
DRSN Gateway	Yes	Certified	Met all critical ERs and FRs.
Tactical Gateway	Yes	Certified	Met all critical ERs and FRs.
NATO Gateway	No	Not Tested	
Commercial Gateway	Yes	Certified	Met all critical ERs and FRs.
Legend:			
CAS	- Channel Associated Signaling	Mbps	- Megabits per second
CDC	- Common Data Channel	MFS	- Multifunction Switch
DISN-E	- Defense Information System Network-Europe	NATO	- North Atlantic Treaty Organization
DRSN	- Defense Red Switch Network	PBX	- Private Branch Exchange
DSN	- Defense Switched Network	RSU	- Remote Switching Unit
E1	- European Basic Rate (2.048 Mbps)	SMEO	- Small End Office
EO	- End Office	SUT	- System Under Test
ERs	- Exchange Requirements	VoIP	- Voice over Internet Protocol
FRs	- Functional Requirements		

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Table 2. Interoperability Status

	Trunk Interfaces			
	Interface & Signaling	Critical	Status	Remarks
Defense Switched Network	PCM-24 T1 (B8ZS/ESF) (AMI/SF) CAS DTMF	Yes	Certified	Met all critical ERs and FRs.
	PCM-24 T1 (B8ZS/ESF) (AMI/SF) CAS MFR1	Yes	Certified	Met all critical ERs and FRs.
	PCM-24 T1 (B8ZS/ESF) (AMI/SF) CAS DP	Yes	Certified	Met all critical ERs and FRs.
	PCM-30 E1 CAS HDB3 MFR1, DTMF, DP	Yes	Certified	Met all critical ERs and FRs.
	PCM-24 T1 (B8ZS/ESF) SS7	Yes	Certified	Met all critical ERs and FRs.
	PCM-30 E1 HDB3 SS7	Yes	Certified	Met all critical ERs and FRs.
	PCM-24 T1 (B8ZS/ESF) ISDN PRI	Yes	Certified	Met all critical ERs and FRs.
	Line Interfaces			
	Interface & Signaling	Critical	Status	Remarks
	TPC ISDN BRI ST and U Interface Q.931	Yes	Certified	Met all critical ERs and FRs. ISDN supplemental services ¹ not met. Operational impact is minor.
TPC 2-Wire analog	Yes	Certified	Met all critical ERs and FRs	
Network Management Interfaces				
Interface & Signaling	Critical	Status	Remarks	
CAT 5 TPC IEEE 802.3 10BaseT Ethernet, TCP/IP (via EDDP)	No	Certified	Met all critical ERs and FRs.	
X.25 or BX.25	No	Certified	Met all critical ERs and FRs.	
Defense Red Switch Network Gateway	Trunk Interfaces			
	Interface & Signaling	Critical	Status	Remarks
	TPC 2-Wire analog	Yes	Certified ²	Met all critical ERs and FRs.
Tactical Network Gateway	Trunk Interfaces			
	Interface & Signaling	Critical	Status	Remarks
	PCM-24 T1 (B8ZS/ESF) (AMI/SF) CAS MFR1	No	Certified	Met all critical ERs and FRs.
	PCM-30 E1 HDB3 CAS MFR1	No	Certified	Met all critical ERs and FRs.
NATO Gateway	Trunk Interfaces			
	Interface & Signaling	Critical	Status	Remarks
		No	Not Tested	See note 3.

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Table 2. SUT Interoperability Status (continued)

Commercial Network Gateway	Trunk Interfaces			
	Interface & Signaling	Critical	Status	Remarks
	Same Interfaces and Signaling as DSN above	Yes	Certified ⁴	Met all critical ERs and FRs.
Legend:				
802.3	- IEEE Ethernet Protocol	ISDN	- Integrated Services Digital Network	
10BaseT	- Ethernet Based Operation, Twisted Pair	ITU	- International Telecommunications Union	
AMI	- Alternate Mark Inversion	Mbps	- Megabits per second	
B8ZS	- Bipolar Eight Zero Substitution	MFR1	- Multi-Frequency R1	
BRI	- Basic Rate Interface	MLPP	- Multi-Level Precedence and Preemption	
CAS	- Channel Associated Signaling	NATO	- North Atlantic Treaty Organization	
CAT	- Category	PCM-24	- Pulse Code Modulation 24 Channels	
DP	- Dial Pulse	PCM-30	- Pulse Code Modulation 30 Channels	
DISN	- Defense Information Systems Network	PM	- Program Manager	
DRSN	- Defense Red Switch Network	PRI	- Primary Rate Interface	
DSN	- Defense Switched Network	Q.931	- ITU Signaling Standard for ISDN	
DTMF	- Dual Tone Multi-Frequency	SF	- Superframe	
E1	- European Basic Rate (2.048 Mbps)	SS7	- Signaling System Number 7	
EDDP	- Enhanced Dual Data Port	ST	- ISDN BRI Four-Wire Interface	
EKTS	- Electronic Key Telephone Service	SUT	- System Under Test	
ERs	- Exchange Requirements	T1	- Digital Transmission Link level 1 (1.544 Mbps)	
ESF	- Extended Superframe	TPC	- Twisted Pair Copper	
FRs	- Functional Requirements	TCP/IP	- Transmission Control Protocol/Internet Protocol	
HDB3	- High Density Bi-Polar Three	U	- ISDN BRI Two-Wire Interface	
IEEE	- Institute of Electrical and Electronics Engineers, Inc.			
Notes:				
1 ISDN supplemental services currently not used in the DISN. The operational impact is minor.				
2 Interoperability Certification of the SUT does not constitute DRSN Program Manager's (PM) approval for connectivity to the DRSN. It is the user's responsibility to request connectivity approval directly from the PM.				
3 Not all switches are required to perform this function. Operational impact is minimal.				
4 The certification of interoperability with commercial networks was verified based on the review of the vendor's letter of compliance to requirements identified as the "Letter" and "Verify" items listed in appendix E of reference (d) and specified in tables 2-1 through 2-15 of reference (e).				

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Table 3. SUT Exchange and Functional Requirements

	Trunk Interfaces	
	Interface & Signaling	Exchange & Functional Requirements
Defense Switched Network	PCM-24 T1 (B8ZS/ESF) (AMI/SF) CAS DTMF	<ul style="list-style-type: none"> - Preset Conference - MLPP - Hotline services - System Interface
	PCM-24 T1 (B8ZS/ESF) (AMI/SF) CAS MFR1	<ul style="list-style-type: none"> • Non-Secure Voice and Data • Secure Voice and Data (STU-III and STE) • NX56 and NX64 Synchronous Data • Non-Secure and Secure FAX • VTC • Alarms
	PCM-24 T1 (B8ZS/ESF) (AMI/SF) CAS DP	<ul style="list-style-type: none"> - CCS/ SS7 (<i>T1 and E1 SS7 only</i>) - Integrated Services Digital Network (<i>ISDN PRI only</i>) - Attendant services (See note 1) - System Administration, Measurements, and Service Standards - Y2K (Rollover, Valid, and Invalid Dates) - Screening, Zone Restriction, and DSN Access Restriction - COI - Automated Message Accounting - Internal Overload Control - Automatic Call Gap Manual Controls - Nailed-Up Connections (<i>T1 and E1 CAS only</i>) - Network Integration - Common Data Channel (<i>T1 and E1 CAS only</i>) - ANSI T1.619a (<i>T1 ISDN PRI and SS7 only</i>)
	PCM-30 E1 CAS HDB3 MFR1, DTMF, DP	
	PCM-24 T1 (B8ZS/ESF) SS7	
	PCM-30 E1 HDB3 SS7	
	PCM-24 T1 B8ZS/ESF ISDN PRI	
Line Interfaces		
Interface & Signaling	Exchange & Functional Requirements	
TPC ISDN BRI ST and U Interface Q.931	<ul style="list-style-type: none"> - Preset Conference - MLPP - Hotline services - ANSI T1.619a - ISDN supplemental services - COI - Call Treatments - ESP - DSN Announcements - Attendant services - EKTS - VTC - NX56 and NX64 Synchronous Data - Non-Secure Voice and Data - Secure Voice and Data (STE) 	
TPC 2-Wire analog	<ul style="list-style-type: none"> - Preset Conference - MLPP - Hotline services - DSN Announcements - COI - Traffic Measurements - Attendant services¹ - Call Treatments - ESP - Non-Secure Voice and Data - Non-Secure and Secure FAX - Secure Voice and Data (STU-III and STE) 	

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Table 3. SUT Exchange and Functional Requirements (continued)

Defense Switched Network (continued)	Network Management Interfaces																																																																																																	
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	CAT 5 TPC IEEE 802.3 10BaseT Ethernet, TCP/IP (via EDDP)	- Automated Message Accounting - Traffic Measurements - Alarms - Man Machine Language																																																																																																
X.25 or BX.25	- Automated Message Accounting - Traffic Measurements - Alarms - Man Machine Language																																																																																																	
Defense Red Switch Network Gateway	Trunk Interfaces																																																																																																	
	Interface & Signaling	Exchange & Functional Requirements																																																																																																
	TPC 2-Wire analog	- MLPP - Secure Voice (STU-III and STE)																																																																																																
Tactical Network Gateway	Trunk Interfaces																																																																																																	
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NATO Gateway	Trunk Interfaces																																																																																																	
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The SUT is not currently used as a NATO Gateway switch; no operational impact. The certification of interoperability with commercial networks was verified based on the review of the vendor's letter of compliance to requirements identified as the "Letter" and "Verify" items listed in appendix E of reference (d) and specified in tables 2-1 through 2-15 of reference (e). 			802.3	- IEEE Ethernet Protocol	Mbps	- Megabits per second	10BaseT	- Ethernet Based Operation, Twisted Pair	MFR1	- Multi-Frequency R1	AMI	- Alternate Mark Inversion	MLPP	- Multi-Level Precedence and Preemption	ANSI	- American National Standards Institute	NATO	- North Atlantic Treaty Organization	B8ZS	- Bipolar Eight Zero Substitution	NX56	- Data format restricted to multiples of 56 kbps	BRI	- Basic Rate Interface	NX64	- Data format restricted to multiples of 64 kbps	CAS	- Channel Associated Signaling	PCM-24	- Pulse Code Modulation 24 Channels	CAT	- Category	PCM-30	- Pulse Code Modulation 30 Channels	CCS	- Common Channel Signaling	PRI	- Primary Rate Interface	COI	- Community of Interest	Q.931	- ITU Signaling Standard for ISDN	DP	- Dial Pulse	SF	- Superframe	DSN	- Defense Switched Network	SS7	- Signaling System Number 7	DTMF	- Dual Tone Multi-Frequency	ST	- ISDN BRI Four-Wire Interface	E1	- European Basic Rate (2.048 Mbps)	STE	- Secure Terminal Equipment	EDDP	- Enhanced Dual Data Port	STU-III	- Secure Telephone Unit-III	EKTS	- Electronic Key Telephone Service	SUT	- System Under Test	ESF	- Extended Superframe	T1	- Digital Transmission Link level 1 (1.544 Mbps)	ESP	- Essential Service Protection	T1.619a	- SS7 and ISDN Signaling Standard for T1	FAX	- Facsimile	TCP/IP	- Transmission Control Protocol/Internet Protocol	HDB3	- High Density Bi-Polar Three	TPC	- Twisted Pair Copper	IEEE	- Institute of Electrical and Electronic Engineers, Inc.	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Table 4. SUT Specified Patch Group List

Patch Group ID Number	Associated Patch ID
Patch Set 43	Includes various patch groups for both commercial and DSN applications
Patch Group 538-A	B0605L4D.A0A0, B0665L4D.A0A0, B0697L4D.A0A0, CU758L2Z.A0A0, CX306L4D.A0A0, B0703L4D.A0A0
Patch Group 541-A	B0614L41.A0A0
Patch Group 543-A	CX120L4D.A0A0, CV556L4D.A0A0
Patch Group 545-A	DE44L2Z.A0A0
Patch Group 546-A	BZ177L4D.A0A0
Patch Group 547-A	DD998L4D.A0A0, DI045L4D.A0A0
Patch Group 548-A	CZ566L2Z.A0A0, CZ576L2Z.A0A0, CZ577L2Z.A0A0
Patch Group 549-A	DH390L4D.A0A0, DH394L2Z.A0A0
Patch Group 550-A	DI131L2Z.A0A0
Patch Group 551-A	DK235L2Z.A0A0, DH393L2Z.A0A0
Patch Group 552-A	
Patch Group 553-A	DM771L2Z.A0A0, Z6103L2Z.IFA1, Z3155L2Z.IFA1, X4127L2Z.IFA0, X2441L2Z.IGA2, X1426L2Z.IGA2, X0333L2Z.IIA1, W9884L2Z.IEA0, S6697L2Z*A3A1, U6134L2Z.IFA1
Patch Group 554-A	DJ578L2Z.A0A0
Patch Group 555-A	B0715L4D.A0A0
Legend:	
DSN - Defense Switched Network	
ID - Identification	
SUT - System Under Test	

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 Capt. Michel Roy, DSN 821-8575, commercial (520) 533-8575, FAX DSN 879-4347, or e-mail roym@fhu.disa.mil.

FOR THE COMMANDER:

Enclosure a/s

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Department of the Army, Office of the Secretary of the Army, G-6/ASA (ALT), ATTN: ASAALT (SAAL-SSI), 103 Army Pentagon, Washington, DC 20310-0103

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

ADDITIONAL REFERENCES

- (c) Joint Interoperability Test Command Memorandum, Networks, Transmission and Integration Division (JTE), "Joint Interoperability Test Certification of Siemens Elektronisches Wahl-System Digital (EWSD) Switching System Software Release 19d with Patch Set 25," 29 August 2003
- (d) Defense Information Systems Agency (DISA), Joint Interoperability and Engineering Organization (JIEO), Technical Report 8249, "Defense Information Systems Network (DISN) Circuit Switched Subsystem, Defense Switched Network (DSN) Generic Switching Center Requirements (GSCR)," March 1997
- (e) Joint Interoperability Test Command, "Defense Switched Network Generic Switch Test Plan (GSTP)," 17 June 1999
- (f) Defense Information Systems Agency (DISA) NS53, Memorandum, "DSN Switch Network Management Interface," 26 July 2001
- (g) Defense Information Systems Agency (DISA) NS53, Memorandum, "DSN Network Management Requirements for End Offices," 2 August 2001