



DEFENSE INFORMATION SYSTEMS AGENCY
JOINT INTEROPERABILITY TEST COMMAND
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IN REPLY
REFER TO: Networks and Transport Division (JTE)

21 May 04

MEMORANDUM FOR DISTRIBUTION

SUBJECT: Special Interoperability Test Certification of Nortel Networks Meridian 1 Options 61C and 81C Digital Switching Systems with Software Release 25.47 and Specified Patch Groups with Patch #MPLR18302

References: (a) DOD Directive 4630.5, "Interoperability and Supportability of Information Technology (IT) and National Security Systems (NSS)," 11 January 2002
(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 enclosure 1.

2. The Nortel Networks Meridian 1 Option 61C Digital Switching System with software release 25.47 and specified patch groups listed in table 4, hereinafter referred to as the system under test (SUT), meets all of its critical interoperability requirements and is certified as interoperable for joint use within the Defense Switched Network (DSN). The Nortel Networks Meridian 1 Option 81C Digital Switching Systems employs the same software and trunk/line card hardware as the Meridian 1 Option 61C. JITC analysis determined Option 81C to be functionally identical to the Meridian 1 Option 61C for interoperability certification purposes and is also certified for joint use within the DSN. 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. The SUT was tested and met the critical interoperability requirements for joint use within the DSN for the following switch types: Small End Office (except Europe), Private Branch Exchange (PBX) 1 and PBX 2. Although the SUT supports European interfaces, none of these interfaces were tested or certified because they do not support Military Unique Features. This certification expires upon system changes that affect interoperability, but no later than three years from the date of this memorandum.

3. This finding is based on interoperability testing of Nortel Networks Meridian 1 Option 61C Digital Switching System with Software Release 25.47 conducted by JITC and certified on 21 October 2003 as described in reference (c), and regression testing of Software Patch #MPLR18302 conducted 22 through 25 March 2004 by JITC at the Global Information Grid Test Facility, Ft. Huachuca, AZ. The Certification Testing Summary in reference (c) documents the test results and

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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 interoperability summary of the SUT is indicated in table 1. The interoperability status and criticality are listed in table 2, the Exchange Requirements (ERs) and Functional Requirements (FRs) for each network interface are listed in table 3, and a list of applied software patch descriptions are shown in table 4. The Nortel Meridian 1 switch product line offers a Voice over Internet Protocol capability; however, this capability is not covered by this certification. Network Management (NM) capabilities of the SUT platform were tested in accordance with the DISA NS53 requirements as set forth in references (d) and (e). These references require that a switch provide NM capabilities via either Ethernet, serial (Electronic Industries Alliance (EIA)-232), or serial (X.25 or BX.25 variant). The SUT meets the NM requirements through the use of serial (EIA-232) connections. This interoperability test summary is based upon evaluation of:

a. The following network interfaces as specified in reference (f): DSN and Commercial Network Gateway.

b. The interface and signaling requirements for trunk/line interfaces, and interoperability ERs and FRs derived from references (g) and (h).

c. The overall system interoperability performance derived from test procedures listed in reference (i).

d. Review of Letters of Compliance submitted by Nortel Networks.

Table 1. Nortel Networks Meridian 1 Option 61C Digital Switching System Interoperability Summary

Network	Critical	Status	Remarks
DSN	Yes	Certified	- Certified as a SMEO, PBX 1, and PBX 2. - VoIP not certified. - The identified test discrepancies shown in reference (c) that remained open have an overall minor operational impact.
Commercial Network Gateway	Yes	Certified	- All critical requirements met.
Legend:			
DSN – Defense Switched Network		SMEO – Small End Office	
PBX – Private Branch Exchange		VoIP – Voice over Internet Protocol	

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Table 2. Interoperability Status

	Trunk Interfaces																															
	Interface & Signaling	Critical	Status	Remarks																												
	PCM-24 T1 (B8ZS/ESF) (AMI/SF) CAS DTMF	No	Certified	Met all critical ERs and FRs. Hotline services ¹ and Attendant services ² not met.																												
	PCM-24 T1 (B8ZS/ESF) (AMI/SF) CAS DP IN/DTMF OUT	No	Certified	Met all critical ERs and FRs. Hotline services ¹ and Attendant services ² not met.																												
PCM-24 T1 (B8ZS/ESF) ISDN PRI	Yes	Certified	Met all critical ERs and FRs. Hotline services ¹ and Attendant services ² not met.																													
Defense Switched Network	Line Interfaces																															
	Interface & Signaling	Critical	Status	Remarks																												
	TPC ISDN BRI ST and U Interface Q.931	Yes	Certified	Met all critical ERs and FRs. Hotline services ¹ , Attendant services ² , and ISDN supplemental services not met. ³																												
	TPC 2-Wire analog	Yes	Certified	Met all critical ERs and FRs. Hotline services ¹ , Attendant services ² , and ISDN supplemental services not met. ³																												
	TPC 2-Wire Digital (Proprietary)	No	Certified	Met all critical ERs and FRs. Hotline services ¹ , Attendant services ² , and ISDN supplemental services not met. ³																												
	Network Management Interfaces																															
	Interface & Signaling	Critical	Status	Remarks																												
TPC EIA-232 Asynchronous @ 9.6 kbps	No	Certified	Met all critical ERs and FRs.																													
Commercial Network Gateway	Trunk Interfaces																															
	Interface & Signaling	Critical	Status	Remarks																												
	Same Interfaces and Signaling as DSN	Yes	Certified	See note 4.																												
Legend:																																
<table border="0"> <tr> <td>AMI - Alternate Mark Inversion</td> <td>ISDN - Integrated Services Digital Network</td> </tr> <tr> <td>B8ZS - Bipolar Eight Zero Substitution</td> <td>ITU - International Telecommunications Union</td> </tr> <tr> <td>BRI - Basic Rate Interface</td> <td>kbps - kilobits per second</td> </tr> <tr> <td>CAS - Channel Associated Signaling</td> <td>Mbps - Megabits per second</td> </tr> <tr> <td>DISN - Defense Information Systems Network</td> <td>PCM-24 - Pulse Code Modulation 24 Channels</td> </tr> <tr> <td>DP - Dial Pulse</td> <td>PRI - Primary Rate Interface</td> </tr> <tr> <td>DSN - Defense Switched Network</td> <td>Q.931 - ITU Signaling Standard for ISDN</td> </tr> <tr> <td>DTMF - Dual Tone Multi-Frequency</td> <td>SF - Superframe</td> </tr> <tr> <td>EIA - Electronic Industries Alliance</td> <td>ST - ISDN BRI Four-Wire Interface</td> </tr> <tr> <td>ERs - Exchange Requirements</td> <td>SUT - System Under Test</td> </tr> <tr> <td>ESF - Extended Superframe</td> <td>T1 - Digital Transmission Link level 1 (1.544 Mbps)</td> </tr> <tr> <td>FRs - Functional Requirements</td> <td>TPC - Twisted Pair Copper</td> </tr> <tr> <td>GSCR - Generic Switching Center Requirements</td> <td>U - ISDN BRI Two-Wire Interface</td> </tr> <tr> <td>GSTP - Generic Switch Test Plan</td> <td></td> </tr> </table>					AMI - Alternate Mark Inversion	ISDN - Integrated Services Digital Network	B8ZS - Bipolar Eight Zero Substitution	ITU - International Telecommunications Union	BRI - Basic Rate Interface	kbps - kilobits per second	CAS - Channel Associated Signaling	Mbps - Megabits per second	DISN - Defense Information Systems Network	PCM-24 - Pulse Code Modulation 24 Channels	DP - Dial Pulse	PRI - Primary Rate Interface	DSN - Defense Switched Network	Q.931 - ITU Signaling Standard for ISDN	DTMF - Dual Tone Multi-Frequency	SF - Superframe	EIA - Electronic Industries Alliance	ST - ISDN BRI Four-Wire Interface	ERs - Exchange Requirements	SUT - System Under Test	ESF - Extended Superframe	T1 - Digital Transmission Link level 1 (1.544 Mbps)	FRs - Functional Requirements	TPC - Twisted Pair Copper	GSCR - Generic Switching Center Requirements	U - ISDN BRI Two-Wire Interface	GSTP - Generic Switch Test Plan	
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3 ISDN supplemental services currently not used in the DISN. The operational impact is none.																																
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 the GSTP and specified in tables 2-1 through 2-15 of the GSCR.																																

Table 3. Exchange and Functional Requirements

Trunk Interfaces			
Interface & Signaling	Critical	Exchange and Functional Requirements (C) Critical, (NC) Not Critical	
PCM-24 T1 (B8ZS/ESF) (AMI/SF) CAS DTMF	No	<ul style="list-style-type: none"> - MLPP (C) - Hotline services¹ (NC) - System Interface (C) <ul style="list-style-type: none"> • Non-secure Voice and Data • Secure Voice and Data (STU-III and STE) • NX56 and NX64 Synchronous Data (<i>TI ISDN PRI only</i>) • Non-secure and Secure FAX • VTC (<i>TI ISDN PRI only</i>) • Alarms - Integrated Services Digital Network (<i>TI ISDN PRI only</i>) (C) - Attendant services² (C) - System Administration, Measurements, and Service Standards (C) - Y2K (Rollover, Valid, and Invalid Dates) (C) - Screening, Zone Restriction, and DSN Access Restriction (C) - Automated Message Accounting (C) - Network Integration (C) - ANSI T1.619a (<i>TI ISDN PRI only</i>) (C) 	
PCM-24 T1 (B8ZS/ESF) (AMI/SF) CAS DP IN/DTMF OUT	No		
PCM-24 T1 B8ZS/ESF ISDN PRI	Yes		
Line Interfaces			
Interface & Signaling	Critical	Exchange and Functional Requirements	
TPC ISDN BRI ST and U Interface Q.931	Yes	<ul style="list-style-type: none"> - MLPP (C) - Hotline services¹ (NC) - ANSI T1.619a (C) - ISDN Supplemental Services (NC) - Call Treatments (NC) - DSN Announcements (C) - Traffic Measurements (NC) - Attendant services² (NC) - VTC (C) - NX56 and NX64 Synchronous Data (C) - Non-secure Voice and Data (C) - Secure Voice and Data (STE) (C) 	
TPC 2-Wire analog	Yes	<ul style="list-style-type: none"> - MLPP (C) - Hotline services¹ (NC) - Call Treatments (C) - DSN Announcements (C) - Traffic Measurements (NC) - Attendant services² (NC) - Non-secure Voice and Data (C) - Non-secure and Secure FAX (C) - Secure Voice and Data (STU-III and STE) (C) 	
TPC 2-Wire Digital and Analog (Proprietary)	No	<ul style="list-style-type: none"> - MLPP (C) - Hotline services¹ (NC) - Call Treatments (C) - DSN Announcements (C) - Traffic Measurements (NC) - Attendant services² (NC) - Non-secure Voice (C) 	
Network Management Interfaces			
Interface & Signaling	Critical	Exchange and Functional Requirements	
TPC EIA-232 Asynchronous @ 9.6 kbps	No	<ul style="list-style-type: none"> - Automated Message Accounting (C) - Traffic Measurements (C) - Alarms (C) - Man Machine Language(C) 	

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Table 3. Exchange and Functional Requirements (continued)

Commercial Network Gateway	Interface & Signaling	Critical	Exchange and Functional Requirements																																																																												
	Same Interfaces and Signaling as DSN	Yes	See note 3.																																																																												
<p>Legend:</p> <table border="0"> <tr> <td>AMI</td> <td>- Alternate Mark Inversion</td> <td>NC</td> <td>- Not Critical</td> </tr> <tr> <td>ANSI</td> <td>- American National Standards Institute</td> <td>NX56</td> <td>- Data format restricted to multiples of 56 kbps</td> </tr> <tr> <td>B8ZS</td> <td>- Bipolar Eight Zero Substitution</td> <td>NX64</td> <td>- Data format restricted to multiples of 64 kbps</td> </tr> <tr> <td>BRI</td> <td>- Basic Rate Interface</td> <td>PCM-24</td> <td>- Pulse Code Modulation 24 Channels</td> </tr> <tr> <td>C</td> <td>- Critical</td> <td>PRI</td> <td>- Primary Rate Interface</td> </tr> <tr> <td>CAS</td> <td>- Channel Associated Signaling</td> <td>Q.931</td> <td>- ITU Signaling Standard for ISDN</td> </tr> <tr> <td>DP</td> <td>- Dial Pulse</td> <td>SF</td> <td>- Superframe</td> </tr> <tr> <td>DSN</td> <td>- Defense Switched Network</td> <td>SS7</td> <td>- Signaling System 7</td> </tr> <tr> <td>DTMF</td> <td>- Dual Tone Multi-Frequency</td> <td>ST</td> <td>- ISDN BRI Four-Wire Interface</td> </tr> <tr> <td>EIA</td> <td>- Electronic Industries Alliance</td> <td>STE</td> <td>- Secure Terminal Equipment</td> </tr> <tr> <td>ESF</td> <td>- Extended Superframe</td> <td>STU-III</td> <td>- Secure Telephone Unit-III</td> </tr> <tr> <td>FAX</td> <td>- Facsimile</td> <td>SUT</td> <td>- System Under Test</td> </tr> <tr> <td>GSCR</td> <td>- Generic Switching Center Requirements</td> <td>T1</td> <td>- Digital Transmission Link level 1 (1.544 Mbps)</td> </tr> <tr> <td>GSTP</td> <td>- Generic Switch Test Plan</td> <td>T1.619a</td> <td>- SS7 and ISDN Signaling Standard for T1</td> </tr> <tr> <td>ISDN</td> <td>- Integrated Services Digital Network</td> <td>TPC</td> <td>- Twisted Pair Copper</td> </tr> <tr> <td>ITU</td> <td>- International Telecommunications Union</td> <td>U</td> <td>- ISDN BRI Two-Wire Interface</td> </tr> <tr> <td>kbps</td> <td>- kilobits per second</td> <td>VTC</td> <td>- Video Teleconferencing</td> </tr> <tr> <td>Mbps</td> <td>- Megabits per second</td> <td>Y2K</td> <td>- Year 2000</td> </tr> <tr> <td>MLPP</td> <td>- Multi-Level Precedence and Preemption</td> <td></td> <td></td> </tr> </table> <p>Notes:</p> <ol style="list-style-type: none"> 1 SUT does not meet all the GSCR exchange requirements for Hotline services. Hotline services are not a critical requirement. 2 SUT does not meet all the GSCR exchange requirements for Attendant services. Attendant services are not a critical requirement. 3 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 the GSTP and specified in tables 2-1 through 2-15 of the GSCR. 				AMI	- Alternate Mark Inversion	NC	- Not Critical	ANSI	- American National Standards Institute	NX56	- Data format restricted to multiples of 56 kbps	B8ZS	- Bipolar Eight Zero Substitution	NX64	- Data format restricted to multiples of 64 kbps	BRI	- Basic Rate Interface	PCM-24	- Pulse Code Modulation 24 Channels	C	- Critical	PRI	- Primary Rate Interface	CAS	- Channel Associated Signaling	Q.931	- ITU Signaling Standard for ISDN	DP	- Dial Pulse	SF	- Superframe	DSN	- Defense Switched Network	SS7	- Signaling System 7	DTMF	- Dual Tone Multi-Frequency	ST	- ISDN BRI Four-Wire Interface	EIA	- Electronic Industries Alliance	STE	- Secure Terminal Equipment	ESF	- Extended Superframe	STU-III	- Secure Telephone Unit-III	FAX	- Facsimile	SUT	- System Under Test	GSCR	- Generic Switching Center Requirements	T1	- Digital Transmission Link level 1 (1.544 Mbps)	GSTP	- Generic Switch Test Plan	T1.619a	- SS7 and ISDN Signaling Standard for T1	ISDN	- Integrated Services Digital Network	TPC	- Twisted Pair Copper	ITU	- International Telecommunications Union	U	- ISDN BRI Two-Wire Interface	kbps	- kilobits per second	VTC	- Video Teleconferencing	Mbps	- Megabits per second	Y2K	- Year 2000	MLPP	- Multi-Level Precedence and Preemption		
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Table 4. Meridian 1 Options 61C and 81C Software Release 25.47 Patch Identification Patch List

Core Software Patch List		
Patch ID Number	PRS Number	Description
MPLR16260	MP17717	INI code ID (INI000 0000001D) from DCH_Handler Procedure
MPLR16674	Q004828	DSN: Precedence calls to a Hunt Group do not get proper treatment
MPLR16789	Q436716	Four Issues: 1. T1 CAS Intermittent Preempt Wink. 2. Bug105. 3. ANSI T1.619A PRI Preempt for Re-use Unanswered. 4. AMA: Data: Outgoing (cause 9) - Timing Issue
MPLR16790	Q005260	SLPREM - Preemption: 1. Origination Busy Treatment. FFC code. 2. Busy Non-preemptable station trunk Preemption Cause 46. 3. T1 PRI Non-preemptable station Busy, Not Equipped Announcement (BNEA).
MPLR16798	Q005385	DSN: No DMI Digit Manipulation after glare failure.
MPLR16801	Q005259	DSN: The M1 Option 61C switch does not provide the correct response to a failed wink start condition.
MPLR16806	Q005259	DSN: Outgoing Preempt Not For Reuse Answered Trailing Digit.
MPLR16857	Q005423	DSN: Outgoing trunk preemption fails over NI2
MPLR16878	Q005193	DSN: Call Transfer 2nd leg sends originators precedence level.
MPLR16879	Q005194	DSN: Conference Call not preserving precedence level.
MPLR16912	Q005571	DSN: Different Service Domains via T1 CAS allow preemption
MPLR16926	Q005592	Change BSERV on NI2 causes system to INI.

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Table 4. Meridian 1 Options 61C and 81C Software Release 25.47 Patch Identification Patch List (continued)

Core Software Patch List		
Patch ID Number	PRS Number	Description
MPLR16937	Q005626	DSN: Changing MLSD in LD 87 causes other fields to change.
MPLR16939	Q005571	DSN: BRI sets with different Service Domains allow preemption
MPLR16945	Q005629	NI2: Bearer channel disable/enable fails with SL-100/Siemens
MPLR17308	Q006365	Euro-ISDN STE mu-law to A-law conversion over E1 PRI
MPLR17344	Q005871	ATVN trunks on TMDI card behave differently from tie trunks - channel status mismatch between M1 and SL-100 when the loop is enabled.
MPLR17582	Q005965	DSN: Unable to send B-Channel status message from individual channels.
MPLR17502	Q005871	Channel status mismatch after Yellow Alarm cleared.
MPLR18302	Q00841477	NI2 DID Tandem to ATVN
Loadware Software Patch List		
Patch ID Number	PRS Number	Description
MPLR17079	Q005959	X11 25.47 psdl file NI02 version 23 fails to download
MPLR17395	Q005965	NI2 remote busy-out
Legend: AMA - Automated Message Accounting ANSI - American National Standards Institute ATVN - Autovon BNEA - Busy, Not Equipped Announcement BRI - Basic Rate Interface BSERV - Bearer Service CAS - Channel Associated Signaling DCH - Data Channel DID - Direct Inward Dialing DMI - Digit Manipulation Index DSN - Defense Switched Network E1 - European Basic Rate (2.048 Mbps) FFC - Flexible Feature Code ID - Identification INI - Initialize ISDN - Integrated Services Digital Network LD - Overlay M1 - Meridian 1 Mbps - Megabits per second MLPP - Multi-Level Precedence and Preemption MLSD - MLPP Service Domain MPLR - Meridian Patch Library Reference NI2 - National ISDN-2 PRI - Primary Rate Interface PRS - Patch Report System psdl - peripheral software downloadable listing SLPREM - Station Loop Preemption SS7 - Signaling System 7 STE - Secure Terminal Equipment T1 - Digital Transmission Link Level 1 (1.544 Mbps) T1.619a - SS7 and ISDN Signaling Standard for T1 TMDI - Time Multiplexer Digital Interface		
Note: Regression testing of Software Patch #MPLR18302 conducted 22 through 25 March 2004.		

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>.

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6. The JITC point of contact is Mr. John Hooper, DSN 879-5041, commercial (520) 538-5041, FAX DSN 879-4347, or e-mail to hooperj@fhu.disa.mil.

FOR THE COMMANDER:

Enclosure a/s

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ADDITIONAL REFERENCES

- (c) Joint Interoperability Test Command Memorandum, Networks, Transmission and Integration Division (JTE), "Joint Interoperability Test Certification of Nortel Networks Meridian 1 Options 61C, 81C and 81CPP Digital Switching Systems with Software Release 25.47," 21 October 2003
- (d) Defense Information Systems Agency (DISA) NS53, Memorandum, "DSN Switch Network Management Interface," 26 July 2001
- (e) Defense Information Systems Agency (DISA) NS53, Memorandum, "DSN Network Management Requirements for End Offices," 2 August 2001
- (f) Chairman of the Joint Chiefs of Staff Instruction (CJCSI) 6215.01B, "Policy for Department of Defense Voice Services," 23 September 2001
- (g) 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
- (h) Defense Information Systems Agency (DISA) NS53, Memorandum, "DSN Global Network Requirements for Small End Office and Private Branch Exchange Category of Switches," 18 March 2003
- (i) Joint Interoperability Test Command, "Defense Switched Network Generic Switch Test Plan (GSTP)," 17 June 1999