



DEFENSE INFORMATION SYSTEMS AGENCY

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

IN REPLY

REFER TO: Joint Interoperability Test Command (JTE)

22 Dec 08

MEMORANDUM FOR DISTRIBUTION

SUBJECT: Extension of the Special Interoperability Test Certification of the Nortel Networks OPTera™ Metro 3500 Multiservice Platform with Software Release 1210X.AG

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," 08 March 2006
(c) through (e), see Enclosure

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.
2. The Nortel Networks OPTera™ Metro 3500 Multiservice Platform with Software Release 1210X.AG is hereinafter referred to as the System Under Test (SUT). The SUT met the critical interoperability requirements for a Strategic Network Element set forth in appendices 5 and 9 of reference (c) using test procedures derived from reference (d). Although the SUT offers European Basic Multiplex Rate (E1) and Digital Signal Level 3 access interfaces, these interfaces were not tested by JITC and are not authorized for use within the Defense Switched Network (DSN) by the DSN Program Management Office (PMO). No other configurations, features, or functions, except those cited within this report, are certified by the JITC, or authorized by the PMO for use within the DSN. This certification expires upon changes that affect interoperability, but no later than three years from the date of this memorandum.
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). Interoperability testing was conducted by JITC at the Global Information Grid Network Test Facility, Fort Huachuca, Arizona, from 19 December 2005 through 13 January 2006 and documented in reference (e). Review of vendor's LoC was completed on 7 April 2006. A desktop review was requested to include additional interface cards. The desktop review was denied because the additional cards required testing. Regression testing to include the additional cards was conducted from 17 through 20 November 2008. The SUT 10/100 Megabits per second Ethernet and one Gigabit per second Ethernet interfaces were tested and certified for voice only. The SUT can be deployed within the DSN as an extension to any Assured Services Local Area Network that is on the Unified Capabilities (UC) Approved Products List (APL).

4. The SUT Interoperability Test Summary is shown in Table 1 and the Capability and Feature Requirements used to evaluate the interoperability of the SUT are indicated in Table 2. The SUT certified cards are listed in Table 3.

Table 1. SUT Interoperability Test Summary

DSN Access Interfaces				
Interface & Signaling		Critical	Status	Remarks
T1 CAS (AMI/SF) DTMF, DP, MFR1		No ¹	Certified	Met all CRs and FRs.
T1 CAS (B8ZS/ESF) DTMF, DP, MFR1		No ¹	Certified	Met all CRs and FRs.
T1 PRI (ANSI T1.619a)		No ¹	Certified	Met all CRs and FRs.
T1 SS7 (ANSI T1.619a)		No ¹	Certified	Met all CRs and FRs.
E1 CAS (HDB3) DTMF, MFR1, DP		No ¹ (Europe only)	Not Tested	E1 CAS is supported by the SUT; however it was not available for testing. The SUT E1 CAS interface is therefore not certified by JITC, or authorized for use by the DSN PMO for use within the DSN. This is not a required interface for a Strategic Network Element.
E1 ISDN PRI (ITU-T Q.955.3)		No ¹ (Europe only)	Not Tested	E1 ISDN PRI is supported by the SUT; however it was not available for testing. The SUT ISDN PRI interface is therefore not certified by JITC, or authorized for use by the DSN PMO for use within the DSN. This is not a required interface for a Strategic Network Element.
E1 SS7 (ANSI T1.619a)		No ¹ (Europe only)	Not Tested	E1 SS7 is supported by the SUT; however it was not available for testing. The SUT E1 SS7 interface is therefore not certified by JITC, or authorized for use by the DSN PMO for use within the DSN. This is not a required interface for a Strategic Network Element.
DS3		No ¹	Not Tested	DS3 is supported by the SUT; however it was not available for testing. The SUT DS3 interface is therefore not certified by JITC, or authorized for use by the DSN PMO for use within the DSN. This is not a required interface for a Strategic Network Element.
100 Megabit Ethernet		No ¹	Certified	Met all CRs and FRs. ²
Gigabit Ethernet		No ¹	Certified	Met all CRs and FRs. ²
DSN Transport Interfaces				
Optical Carrier Level	Transport Level	Critical	Status	Remarks
OC-3	VT 1.5	No ³	Certified	Met all CRs and FRs.
	STS-1	No ³	Certified	Met all CRs and FRs.
OC-12	VT 1.5	No ³	Certified	Met all CRs and FRs.
	STS-1	No ³	Certified	Met all CRs and FRs.
OC-48	VT 1.5	No ³	Certified	Met all CRs and FRs.
	STS-1	No ³	Certified	Met all CRs and FRs.
OC-192	VT 1.5	No ³	Certified	Met all CRs and FRs.
	STS-1	No ³	Certified	Met all CRs and FRs.
Features And Capabilities				
Features and Capabilities		Critical	Status	Remarks
Synchronization		Yes	Certified	Met all critical CRs and FRs.
Network Management		Yes	Certified	Met all critical CRs and FRs.
Security		Yes	See Note 4.	See Note 4.

Table 1. SUT Interoperability Test Summary (continued)

NOTES:			
1	The UCR does not stipulate a minimum Access interface requirement for a Strategic Network Element.		
2	The SUT 100 Megabit and Gigabit Ethernet interfaces were tested and certified for voice only as an extension to an ASLAN on the UC APL.		
3	The UCR does not stipulate a minimum Transport interface requirement for a Strategic Network Element.		
4	Information assurance testing is accomplished via DISA-led Information Assurance test teams and published in a separate report.		
LEGEND:			
AMI	Alternate Mark Inversion	Mbps	Megabits per second
ANSI	American National Standards Institute	MFR1	Multi-frequency Recommendation 1
B8ZS	Bipolar Eight Zero Substitution	MLPP	Multi-Level Precedence and Preemption
CAS	Channel Associated Signaling	NE	Network Element
CR	Capability Requirements	OC-3	Optical Carrier Level 3 (155 Mbps)
DISA	Defense Information Systems Agency	OC-12	Optical Carrier Level 12 (622 Mbps)
DP	Dial Pulse	OC-48	Optical Carrier Level 48 (2.448 Gbps)
DS3	Digital Signal Level 3 (44.736 Mbps)	OC-192	Optical Carrier Level 192 (10 Gbps)
DTMF	Dual Tone Multi-Frequency	PRI	Primary Rate Interface
DSN	Defense Switched Network	Q.955.3	ISDN Signaling Standard for E1 MLPP
E1	European Basic Multiplex Rate (2.048 Mbps)	SF	Super Frame
ESF	Extended Super Frame	SS7	Signaling System 7
FR	Feature Requirements	SUT	System Under Test
Gbps	Gigabits per second	STS	Synchronous Transport Signal
HDB3	High Density Bipolar 3	T1	Digital Transmission Link Level 1 (1.544 Mbps)
ISDN	Integrated Services Digital Network	T1.619a	SS7 and ISDN MLPP Signaling Standard for T1
ITU-T	International Telecommunication Union – Telecommunication Standardization	VT	Virtual Tributary

Table 2. SUT Capability and Feature Interoperability Requirements

DSN Access Interfaces			
Interface	Critical	Requirements Required or Conditional	References
T1 CAS	No ¹	• DS1 Interface Characteristics (C)	• UCR para. A9.5.1.2.4
T1 SS7 (ANSI T1.619a)	No ¹	• DS1 Supervisory Channel Associated Signaling (C)	• UCR para. A9.5.1.2.4
		• DS1 Clear Channel Capability (C)	• UCR para. A9.5.1.2.4
T1 ISDN PRI (ANSI T1.619a)	No ¹	• DS1 Alarm and Restoral Requirements (C)	• UCR para. A9.5.1.2.4
E1 ISDN PRI (ITU-T Q.955.3)	No ¹	• E1 Interface Characteristics (C)	• UCR para. A9.5.1.2.5
E1 CAS	(Europe only)	• E1 Supervisory Channel Associated Signaling (C)	• UCR para. A9.5.1.2.5
	No ¹	• E1 Clear Channel Capability (C)	• UCR para. A9.5.1.2.5
E1 SS7 (ANSI T1.619a)	(Europe only)	• E1 Alarm and Restoral Requirements (C)	• UCR para. A9.5.1.1
	No ¹	• MOS (R)	• UCR para. A9.5.1.1
	(Europe only)	• BERT (R)	• UCR para. A9.5.1.1
	No ¹	• Secure Transmission (Voice and Data) (R)	• UCR para. A9.5.1.1
	(Europe only)	• Modem (R)	• UCR para. A9.5.1.1
DS3	No ¹	• Facsimile (R)	• UCR para. A9.5.1.1
100 Megabits Ethernet	No ¹	• Call Control Signals (R)	• UCR para. A9.5.1.1
		• Delay (R)	• UCR para. A9.5.1.1
		• Call Congestion Control (R)	• UCR para. A9.5.1.1.2
		• Call Congestion (R)	• UCR para. A9.5.1.1.2
Gigabit Ethernet	No ¹	• Voice Compression (C)	• UCR para. A9.5.1.1.4
		• DS3 Interface Requirements (R)	• UCR para. A9.5.1.2.6
		• IP Interface (C)	• UCR para. A9.5.1.2.9
DSN Transport Interfaces			
Interface	Critical	Requirements Required or Conditional	References
OC-3	No ²	• MLPP (R)	• UCR para. A5.5.1
		• GR-303-CORE (R)	• UCR para. A5.5.2
		• GR-253-CORE (R)	• UCR para. A5.5.2
		• GR-782-CORE (R)	• UCR para. A5.5.2
		• ANSI T1.105-2001 (R)	• UCR para. A5.5.2
		• DS1 Rate Transport via VT 1.5 (R)	• UCR para. A5.5.2
		• DS1 Rate Provisioning (R)	• UCR para. A5.5.2
		• DS0 Call Processing (R)	• UCR para. A5.5.2
OC-12	No ²	• DS0 to OC-3 Route Assignment (R)	• UCR para. A5.5.3
		• Facility Alarms (R)	• UCR para. A5.5.4
		• DS1 AIS/Yellow (R)	• UCR para. A5.5.4
		• DS0 AIS/DS0 RAI (R)	• UCR para. A5.5.4
		• Synchronization in accordance with GR-518-CORE (R)	• UCR para. A5.5.5
		• Synchronization in accordance with GR-253-CORE (R)	• UCR para. A5.5.5
		• Synchronization in accordance with GR-436-CORE (R)	• UCR para. A5.5.5
OC-48	No ²	• Reliability (R)	• UCR para. A5.5.6
		• Security (R)	• UCR para. A5.6
		• MOS (R)	• UCR para. A9.5.1.1
		• BERT (R)	• UCR para. A9.5.1.1
		• Secure Transmission (Voice and Data) (R)	• UCR para. A9.5.1.1
		• Modem (R)	• UCR para. A9.5.1.1
OC-192	No ²	• Facsimile (R)	• UCR para. A9.5.1.1
		• Call Control Signals (R)	• UCR para. A9.5.1.1
		• Delay (R)	• UCR para. A9.5.1.1
		• Call Congestion Control (R)	• UCR para. A9.5.1.1.3
		• Voice Compression (C)	• UCR para. A9.5.1.1.4

Table 2. SUT Capability and Feature Interoperability Requirements (continued)

SUT Features And Capabilities																																																																																											
Feature/Capability	Critical	Requirements Required or Conditional	References																																																																																								
Synchronization	Yes	<ul style="list-style-type: none"> • Timing (R) 	<ul style="list-style-type: none"> • UCR para. A9.5.1.2.7 																																																																																								
Network Management	Yes	<ul style="list-style-type: none"> • Management Option (R) <ul style="list-style-type: none"> - Local Management (Front Panel and/or External Console) (C) - ADIMSS (C) • Fault Management (C) • Loop Back Capability (C) • Operational Configuration Restoral (R) 	<ul style="list-style-type: none"> • UCR para. A9.5.2.1 • UCR para. A9.5.2.2 • UCR para. A9.5.2.3 • UCR para. A9.5.3 																																																																																								
Security	Yes	<ul style="list-style-type: none"> • DIACAP and STIGs (R) 	<ul style="list-style-type: none"> • UCR para. A9.6 																																																																																								
<p>NOTES:</p> <p>1 The UCR does not stipulate a minimum Access interface requirement for a Strategic Network Element.</p> <p>2 The UCR does not stipulate a minimum Transport interface requirement for a Strategic Network Element.</p> <p>LEGEND:</p> <table border="0"> <tr> <td>ADMISS</td> <td>Advanced DSN Intergraded Management Support System</td> <td>ITU-T</td> <td>International Telecommunication Union – Telecommunication Standardization</td> </tr> <tr> <td>ANSI</td> <td>American National Standards Institute</td> <td>LSSGR</td> <td>Local Access and Transport Area (LATA) Switching Systems Generic Requirements</td> </tr> <tr> <td>App.</td> <td>Appendix</td> <td>Mbps</td> <td>Megabits per second</td> </tr> <tr> <td>AIS</td> <td>Alarm Indication Signal</td> <td>MLPP</td> <td>Multi-Level Precedence and Preemption</td> </tr> <tr> <td>BERT</td> <td>Bit Error Rate Test</td> <td>MOS</td> <td>Mean Opinion Score</td> </tr> <tr> <td>C</td> <td>Conditional</td> <td>NE</td> <td>Network Element</td> </tr> <tr> <td>CAS</td> <td>Channel Associated Signaling</td> <td>OC-3</td> <td>Optical Carrier Level 3 (155 Mbps)</td> </tr> <tr> <td>DIACAP</td> <td>DoD Information Assurance Certification and Accreditation Process</td> <td>OC-12</td> <td>Optical Carrier Level 12 (622 Mbps)</td> </tr> <tr> <td>DS0</td> <td>Digital Signal Level 0</td> <td>OC-48</td> <td>Optical Carrier Level 48 (2.448 Gbps)</td> </tr> <tr> <td>DS1</td> <td>Digital Signal Level 1</td> <td>OC-192</td> <td>Optical Carrier Level 192 (10 Gbps)</td> </tr> <tr> <td>DS3</td> <td>Digital Signal Level 3</td> <td>PRI</td> <td>Primary Rate Interface</td> </tr> <tr> <td>DSN</td> <td>Defense Switched Network</td> <td>R</td> <td>Required</td> </tr> <tr> <td>E1</td> <td>European Basic Multiplex Rate (2.048 Mbps)</td> <td>RAI</td> <td>Remote Alarm Indication</td> </tr> <tr> <td>Gbps</td> <td>Gigabits per second</td> <td>SONET</td> <td>Synchronous Optical Network</td> </tr> <tr> <td>GR</td> <td>Generic Requirement</td> <td>SS7</td> <td>Signaling System 7</td> </tr> <tr> <td>GR-253</td> <td>SONET Transport Systems: Common Generic Criteria</td> <td>STIGs</td> <td>Security Technical Implementation Guides</td> </tr> <tr> <td>GR-303</td> <td>Integrated Digital Loop Carrier System Generic Requirements, Objectives, and Interface</td> <td>SUT</td> <td>System Under Test</td> </tr> <tr> <td>GR-436</td> <td>Digital Network Synchronization Plan</td> <td>T1</td> <td>Digital Transmission Link Level 1 (1.544 Mbps)</td> </tr> <tr> <td>GR-518</td> <td>LSSGR: Synchronization, Section 18</td> <td>T1.105-2001</td> <td>SONET – Basic Description include Multiplexer structure, rates, formats</td> </tr> <tr> <td>GR-782</td> <td>SONET Digital Switch Trunk Interface Criteria</td> <td>T1.619a</td> <td>SS7 and ISDN MLPP Signaling Standard for T1</td> </tr> <tr> <td>GSCR</td> <td>Generic Switching Center Requirement</td> <td>Q.955.3</td> <td>ISDN Signaling standard for E1 MLPP</td> </tr> <tr> <td>ISDN</td> <td>Integrated Services Digital Network</td> <td>VT1.5</td> <td>Virtual Tributary 1.5</td> </tr> </table>				ADMISS	Advanced DSN Intergraded Management Support System	ITU-T	International Telecommunication Union – Telecommunication Standardization	ANSI	American National Standards Institute	LSSGR	Local Access and Transport Area (LATA) Switching Systems Generic Requirements	App.	Appendix	Mbps	Megabits per second	AIS	Alarm Indication Signal	MLPP	Multi-Level Precedence and Preemption	BERT	Bit Error Rate Test	MOS	Mean Opinion Score	C	Conditional	NE	Network Element	CAS	Channel Associated Signaling	OC-3	Optical Carrier Level 3 (155 Mbps)	DIACAP	DoD Information Assurance Certification and Accreditation Process	OC-12	Optical Carrier Level 12 (622 Mbps)	DS0	Digital Signal Level 0	OC-48	Optical Carrier Level 48 (2.448 Gbps)	DS1	Digital Signal Level 1	OC-192	Optical Carrier Level 192 (10 Gbps)	DS3	Digital Signal Level 3	PRI	Primary Rate Interface	DSN	Defense Switched Network	R	Required	E1	European Basic Multiplex Rate (2.048 Mbps)	RAI	Remote Alarm Indication	Gbps	Gigabits per second	SONET	Synchronous Optical Network	GR	Generic Requirement	SS7	Signaling System 7	GR-253	SONET Transport Systems: Common Generic Criteria	STIGs	Security Technical Implementation Guides	GR-303	Integrated Digital Loop Carrier System Generic Requirements, Objectives, and Interface	SUT	System Under Test	GR-436	Digital Network Synchronization Plan	T1	Digital Transmission Link Level 1 (1.544 Mbps)	GR-518	LSSGR: Synchronization, Section 18	T1.105-2001	SONET – Basic Description include Multiplexer structure, rates, formats	GR-782	SONET Digital Switch Trunk Interface Criteria	T1.619a	SS7 and ISDN MLPP Signaling Standard for T1	GSCR	Generic Switching Center Requirement	Q.955.3	ISDN Signaling standard for E1 MLPP	ISDN	Integrated Services Digital Network	VT1.5	Virtual Tributary 1.5
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Table 2-3. SUT Certified Cards

Nortel Networks OPTera™ Metro 3500 Multiservice Platform with Software Release 1210X.AG			
Hardware	Part Number	Release	Remarks
OC-3/STM	NTN441AC	3	These cards were tested and listed in the original certification.
OC-12/STM	NTN446CA	3	
OC-48/STM	NTN440EH	5	
OC-192/STM	NTN445CB	2	
STX192	NTN415AA	1	
SPX	NTN423BH	6	
DS1 MAPPER	NTN430AA	13	
VTX48E	NTN414AH	6	
F BNCx1	NTN452JH	3	
F iPTx8	NTN452NH	3	
F 1-28	NTN452AH	2	
FLOAM	NTN451MH	4	
FLIF	NTN451BH	8	
20 Amp	NTN451HA	1	
Fan	NTN458HH	4	
Backplane	NTN476AH	1	
PSC	NTN412AA	13	
OC-12	NTN404KA	5	
2x10/100BT Pt to Pt	NTN433AA	2	These cards were tested and added with this DTR. See notes 2 and 3.
2xGIGE/FC-P2P	NTN438DA	004A	
SFP GE/FC 1310nm LX	NTTP51BD	1	
SFP GE/FC 850nm SX	NTTP51AF	1	

NOTES:

- These cards include backplane, power, etc. cards which were tested, but not included in the original certification.
- The SUT 10/100 and GiGE Ethernet interfaces were tested and are certified for voice only. These SUT Ethernet interfaces can only be deployed within the DSN as an extension to any Assured Services Local Area Network that is on the Unified Capabilities (UC) Approved Products List (APL)
- The 2xGIGE/FC-P2P (NTN438DA) offers both GiGE and Pt-to-Pt Fiber Channel. The Pt-to-Pt Fiber Channel functionality was not tested and is not covered under this certification.

LEGEND:

DS1	Digital Signal Level 1 (1.544 Mbps)	OC-192	Optical Carrier Level 192 (10 Gbps)
FC	Fiber Channel	P2P	Point to Point
FLIF	Front Left Interface	PSC	Protection Switching Controller
FLOAM	Front Left Operation and Management	Pt	Point
Gbps	Gigabits per second	SFP	Small Form Factor Pluggable
GE	Gigabit Ethernet	SPX	Shelf Processor Card
GIGE	Gigabit Ethernet	STM	Synchronous Transport Module
LX	Long Range	STS	Synchronous Transport Signal
Mbps	Megabits per second	STX	STS-1 Switch Matrix
nm	nanometer	SUT	System Under Test
OC-3	Optical Carrier Level 3 (155 Mbps)	SX	Short Range
OC-12	Optical Carrier Level 12 (622 Mbps)	VT 1.5	Virtual Tributary 1.5
OC-48	Optical Carrier Level 48 (2.488 Gbps)	VTX	VT 1.5 Switch Matrix

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 <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>.

JITC Memo, JTE, Extension of the Special Interoperability Test Certification of the Nortel Networks OPTera™ Metro 3500 Multiservice Platform with Software Release 1210X.AG

6. The JITC point of contact is Capt. Oskar Widecki, DSN 879-5269, commercial (520) 538-5269, FAX DSN 879-4347, or e-mail oskar.widecki@disa.mil. The JITC's mailing address is P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The tracking numbers for the SUT are 50351 and 0819202.

FOR THE COMMANDER:



for RICHARD A. MEADOR
Chief
Battlespace Communications Portfolio

Enclosure a/s

Distribution (electronic mail):

Joint Staff J-6

Joint Interoperability Test Command, Liaison, TE3/JT1

Office of Chief of Naval Operations, CNO N6F2

Headquarters U.S. Air Force, Office of Warfighting Integration & CIO, AF/XCIN (A6N)

Department of the Army, Office of the Secretary of the Army, DA-OSA CIO/G-6 ASA (ALT), SAIS-IOQ

U.S. Marine Corps MARCORSYSCOM, SIAT, MJI Division I

DOT&E, Net-Centric Systems and Naval Warfare

U.S. Coast Guard, CG-64

Defense Intelligence Agency

National Security Agency, DT

Defense Information Systems Agency, TEMC

Office of Assistant Secretary of Defense (NII)/DOD CIO

U.S. Joint Forces Command, Net-Centric Integration, Communication, and Capabilities
Division, J68

Defense Information Systems Agency, GS23

ADDITIONAL REFERENCES

- (c) Defense Information Systems Agency, "Department of Defense Networks Unified Capabilities Requirements," 21 December 2007
- (d) Joint Interoperability Test Command, "Defense Switched Network Generic Switch Test Plan (GSTP), Change 2," 2 October 2006
- (e) Joint Interoperability Test Command, "Special Interoperability Test Certification of the Nortel Networks OPTera™ Metro 3500 Multiservice Platform with Software Release 1210X.AG," 12 May 2006