



DEFENSE INFORMATION SYSTEMS AGENCY

P. O. BOX 549
FORT MEADE, MARYLAND 20755-0549

IN REPLY
REFER TO:

Joint Interoperability Test Command (JTE)

12 Dec 12

MEMORANDUM FOR DISTRIBUTION

SUBJECT: Extension of the Special Interoperability Test Certification of the CIENA Government Solutions, Inc., ActivFlex 6500, an Optical Transport System (OTS) and a Fixed-Network Element (F-NE), with Software Release 7.01

References : (a) Department of Defense Directive 4630.05, "Interoperability and Supportability of Information Technology (IT) and National Security Systems (NSS)," 5 May 2004
(b) Department of Defense Instruction 8100.04, "DoD Unified Capabilities (UC)," 9 December 2010
(c) through (e), see Enclosure

1. References (a) and (b) establish the Joint Interoperability Test Command (JITC) as the responsible organization for interoperability test certification.
2. The Ciena Government Solutions, Inc., ActivFlex 6500 with Software Release 7.01 is hereinafter referred to as the System Under Test (SUT). The SUT solution is a family of products with models submitted for testing that includes the corresponding slot shelf numbers for each chassis: 7-slot, 14-slot, and 32-slot. The vendor submitted Desktop Review (DTR) 1, to include the ActivFlex 6500 updated software release 7.02 to the existing UC Approved Product List (APL) entry. JITC conducted the original testing using OTS and F-NE requirements within the Unified Capabilities Requirements (UCR) 2008, Change 2, Reference (c). The operational status of the SUT will be verified during deployment. Any new discrepancy that are discovered in the operational environment will be evaluated for impact and adjudicated to the satisfaction of Defense Information Systems Agency (DISA) via a vendor Plan of Actions and Milestones to addresses the concern(s) within 120 days of identification. No other configurations, features, or functions, except those cited within this memorandum are certified by JITC. This certification expires on 8 August 2014 based on previous placement on the Approved Products List.
3. JITC approves the extension of this certification for DTR 1, submitted to include the software release 7.02. Approval is based on the review of the updated product information and the verification and validation of test results on the affecting components provided by the vendor as well as Interoperability (IO) testing conducted at the Indian Head, Maryland Test Facility, from 18 April through 15 July 2011. The tests results for the SUT are published in separate reports under Unified Capabilities Certification Office (UCCO) Tracking Number (see paragraph 6) and can be found on the Approved Products List Integrated Tracking System (APLITS) at <https://aplits.disa.mil>. The DISA IA CA has provided a positive recommendation of the IA configuration on 24 June 2011.

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4. Table 1 and 2 depict the SUT Defense Information Systems Network (DISN) OTS's interface, Capability Requirements (CR) and Functional Requirements (FR) status. Table 3 and 4 illustrate the SUT F-NE Interface, CRs and FRs Status used to evaluate the interoperability of the SUT. Table 5 lists the updated software to be added to the certification.

Table 1. SUT DISN OTS Interface Interoperability Status

Interface	Critical	Reference (UCR 2008, Change 2)	Threshold CR/FR Requirements (See note 1.)	Status	Remarks
OTS					
OC-48/STM-16	Yes	5.5.3.2.5.1	1, 2, 4, 5, 6, and 8	Certified	Met threshold CRs/FRs for OC-48/STM-16.
OC-192/STM-64	Yes	5.5.3.2.5.1	1, 2, 3, 4, 5, 6, and 8	Certified	Met threshold CRs/FRs for OC-192/STM-64.
OC-768/STM-256	Yes	5.5.3.2.5.1	1, 2, 3, 4, 5, 6, and 8	Certified	Met threshold CRs/FRs for OC-768/STM-256
1 GbE	Yes	5.5.3.2.5.1	1, 2, 4, 5, and 8	Certified	Met threshold CRs/FRs.
10 GbE LAN	Yes	5.5.3.2.5.1	1, 2, 4, 5, 6, and 8	Certified	Met threshold CRs/FRs.
10 GbE WAN	Yes	5.5.3.2.5.1	1, 2, 4, 5, 6, and 8	Certified	Met threshold CRs/FRs.
OTN ODU1/ODU2/ODU3	Yes	5.5.3.2.5.1	1, 2, 4, 5, 6, 7 and 8	Not Tested	Met requirement based on vendor's LoC. (See note 2.)
OTN 100G	No	5.5.3.2.5.1	1, 2, 4, 5, 6, 7 and 8	Certified	Met requirement based on vendor's LoC. (See note 3.)
OSC	Yes	5.5.3.2.8	7 and 8	Certified	Met threshold CRs/FRs.
Other					
10 x 10 GbE LAN	No	IEEE 802.3ae	9	Certified	See note 4.
10 x 10 GbE WAN	No	IEEE 802.3ae	9	Certified	See note 4.
10 x OC-192	No	GR-253	9	Certified	See note 4.
1 x 100 GbE	No	IEEE 802.3ba	9	Not Tested	See note 4.
NOTES:					
1. The threshold CRs/FRs provide a high-level overview of applicable UCR requirements. For detailed applicability of UCR requirements, refer to Enclosure 3.					
2. Due to the lab limitation of JITC test facility at Indian Head, Maryland, the following OTN rates: ODU1, ODU2, and ODU3 did not undergo testing. However, according to vendor's LoC, the SUT meets the corresponding UCR requirement.					
3. This is a conditional requirement that requires the vendor to have a plan for the future to support an OTN 100G interface. The vendor has claimed that the SUT supports a 100G user-side interface. However, due to unavailability, JITC did not test the 100G client interface.					
4. JITC tested 10 x 10 GbE LAN/WAN and 10 x OC-192 interfaces at the client side and 100G DWDM at the network side. The SUT supports a 1 x 100 GbE interface, but the SUT tested configuration did not have 1 x 100 GbE client interface; therefore, JITC did not test it.					
LEGEND:					
CR	Capability Requirement		LoC	Letters of Compliance	
DISN	Defense Information Systems Network		OC	Optical Carrier	
DWDM	Dense Wavelength Division Multiplexing		ODU	Optical Data Unit	
FR	Functional Requirement		OSC	Optical Supervisory Channel	
G	Gigabit		OTN	Optical Transport Network	
GbE	Gigabit Ethernet		OTS	Optical Transport System	
GR	Generic Requirement		STM	Synchronous Transport Module	
IEEE	Institute of Electrical and Electronic Engineers		SUT	System Under Test	
JITC	Joint Interoperability Test Command		UCR	Unified Capabilities Requirements	
LAN	Local Area Network		WAN	Wide Area Network	

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Table 2. SUT DISN OTS CRs and FRs Status

CR/FR ID	Capability/Function	Applicability (See notes 1 and 2.)	Reference (UCR 2008, Change 2)	Status	Remarks (See note 3.)
OTS CR/FR					
Requirements Applicable to all OTS Elements					
1	Overall Requirements	Required	5.5.3.2.2.1	Partially Met	See note 4.
	Performance Requirements	Required	5.5.3.2.2.2	Met	
	Reliability and Quality Assurance	Required	5.5.3.2.2.2.1	Partially Met	See note 5.
	Common Physical Design Requirements	Required	5.5.3.2.2.3	Partially Met	See note 6.
	Protection and Restoration	Required	5.5.3.2.2.4	Met	
Optical Amplifier Requirements					
2	Optical Amplifier Requirements	Required	5.5.3.2.3	Partially Met	See note 7.
	OLA Physical Design Requirements	Required	5.5.3.2.3.1	Partially Met	See note 8.
Muxponder Requirements					
3	Muxponder	Required	5.5.3.2.4	Met	
Transponder Requirements					
4	Transponder Requirements	Required	5.5.3.2.5	Partially Met	See note 9.
	Interface Requirements	Required	5.5.3.2.5.1	Partially Met	See note 10.
ROADM Requirements					
5	ROADM Requirements	Required	5.5.3.2.6	Partially Met	See note 11.
	ROADM Specific Physical Design Requirements	Required	5.5.3.2.6.1	Met	
Requirements Common to Transponder and ROADM					
6	Framed Formats	Required	5.5.3.2.7.1	Partially Met	See note 12.
	Unframed Formats	Required	5.5.3.2.7.2	Met	
Optical Supervisory Channel Requirements					
7	Optical Supervisory Channel	Required	5.5.3.2.8	Partially Met	See note 4.
OTS Standards Compliance Requirements					
8	OTS Standards Compliance	Required	5.5.3.2.9	Met	See note 13.
Other CR/FR					
100G Sponsor Requirements					
9	100G IP Transport	Conditional	IEEE 802.3ae/ba GR-253	Met	See note 10.

NOTES:

1. Annotation of 'required' refers to high-level requirement category. Applicability of each sub-requirement is provided in Enclosure 3.
2. The DISA requested the SUT be assessed against UCR 2008, Section 5.5, as an OTS device.
3. Notes 4 through 13 contain details of discrepancies that have been adjudicated by the DISA Adjudication Board and the Sponsor.
4. The UCR requires 150 km/50 dB span loss but the SUT only supports 150 km/44 dB span loss.
5. The SUT software development process does not comply directly with the Reliability and Quality Acceptance Criteria.
6. The SUT does not support capability to roll back to the previous operational version of software, required altitude, interoperability with deployed GIG-BE operational software versions, software upgraded in a modular fashion, and a fully accessible file system.
7. The SUT's internal OSA does not support 25 GHz ITU grid spacing and reporting of Noise level, Q-Factor, OSNR for each wavelength, and Optical Eye Diagram. The Unified Capabilities adjudication panel recommended changing all the internal OSA requirements in UCR to conditional. In addition, the SUT does not support automatic monitoring and reporting on the operation of the Raman pumping lasers, including power on, off, optical output power, operating current and total Optical Return Loss, but it supports Raman pump failure alarm. Also, Raman output power and line power can be monitored from two external monitor ports.
8. A fully configured SUT OLA site may consume more than the specified 2000 watts.
9. The SUT does not support Built-in self-BER test function and not all transponders support user-selectable FEC.
10. JITC tested 10 x 10 GbE LAN/WAN and 10 x OC-192 interfaces at the client side and 100G DWDM at the network side. The SUT supports a 1 x 100 GbE interface, but the SUT tested configuration did not have a 1 x 100 GbE client interface; therefore, JITC did not test it.
11. The SUT ROADM did not support colorless wavelength routing at the time of testing.
12. The SUT does not support Alien wavelength regeneration.
13. This section is verifying SUT compliance to a list of industry standards via vendor's LoC. JITC reviewed and accepted the vendor's LoC.

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Table 2. SUT DISN OTS CRs and FRs Status (continued)

LEGEND:			
BER	Bit Error Rate	IP	Internet Protocol
CR	Capability Requirement	ITU	International Telecommunication Union
dB	Decibel	JITC	Joint Interoperability Test Command
DISA	Defense Information Systems Agency	km	kilometer
DISN	Defense Information Systems Network	LAN	Local Area Network
DWDM	Dense Wavelength Division Multiplexing	LoC	Letter of Compliance
FEC	Forward Error Correction	OC	Optical Carrier
FR	Functional Requirement	OLA	Optical Line Amplifier
G	Gigabit	OSA	Optical Spectrum Analyzer
GbE	Gigabit Ethernet	OSNR	Optical Signal to Noise Ratio
GHz	Gigahertz	OTS	Optical Transport System
GIG-BE	Global Information Grid – Bandwidth Expansion	Q-Factor	Quality Factor
GR	Generic Requirement	ROADM	Reconfigurable Optical Add Drop Multiplexer
ID	Identification	SUT	System Under Test
IEEE	Institute of Electrical and Electronic Engineers	UCR	Unified Capabilities Requirements
		WAN	Wide Area Network

Table 3. SUT F-NE Interface Interoperability Status

Interface	Critical (See note.)	Reference (UCR 2008, Change 2)	Threshold CR/FR Requirements	Status	Remarks																																								
NE																																													
Analog	No	5.9.3.2.1	1, 2, and 4	NA	Not supported by the SUT.																																								
Serial	No	5.9.2.3.2	1, 2, and 4	NA	Not supported by the SUT.																																								
BRI ISDN	No	5.9.2.3.3	1, 2, and 4	NA	Not supported by the SUT.																																								
DS1	No	5.9.2.3.4	1, 2, 3, and 4	Certified	SUT met requirements for specified interfaces.																																								
E1	No	5.9.2.3.5	1, 2, 3, and 4	NA	Not supported by the SUT.																																								
DS3	No	5.9.2.3.6	1, 2, 3, and 4	Certified	SUT met requirements for specified interfaces.																																								
OC-X	No	5.9.2.3.8	1, 2, 3, and 4	Certified	SUT met requirements for OC-3/12/48/192/768 interfaces. SUT also met requirements for STM-1/4/16/64/256 interfaces.																																								
IP (Ethernet)	No	5.9.2.3.9	1, 2, 4, and 7	Certified	SUT met requirements for 10/100/1000, 1 GbE, and 10 GbE.																																								
NM																																													
10Base-X	Yes	5.3.2.4.4	8	Certified	SUT met NM requirements for specified interfaces.																																								
100Base-X	Yes	5.3.2.4.4	8	Certified																																									
<p>NOTE: UCR does not specify any minimum interfaces. The SUT must minimally provide one of the listed ingress and egress interfaces specified.</p> <p>LEGEND:</p> <table> <tbody> <tr> <td>10Base-X</td> <td>10 Mbps Ethernet generic designation</td> <td>IP</td> <td>Internet Protocol</td> </tr> <tr> <td>100Base-X</td> <td>100 Mbps Ethernet generic designation</td> <td>ISDN</td> <td>Integrated Services Digital Network</td> </tr> <tr> <td>BRI</td> <td>Basic Rate Interface</td> <td>Mbps</td> <td>Megabits per second</td> </tr> <tr> <td>CR</td> <td>Capability Requirement</td> <td>NA</td> <td>Not Applicable</td> </tr> <tr> <td>DS1</td> <td>Digital Signal Level 1 (1.544 Mbps)</td> <td>NE</td> <td>Network Element</td> </tr> <tr> <td>DS3</td> <td>Digital Signal Level 3 (44.736 Mbps)</td> <td>NM</td> <td>Network Management</td> </tr> <tr> <td>E1</td> <td>European Interface Standard (2.048 Mbps)</td> <td>OC</td> <td>Optical Carrier</td> </tr> <tr> <td>F-NE</td> <td>Fixed Network Element</td> <td>STM</td> <td>Synchronous Transport Module</td> </tr> <tr> <td>FR</td> <td>Functional Requirement</td> <td>SUT</td> <td>System Under Test</td> </tr> <tr> <td>GbE</td> <td>Gigabit Ethernet</td> <td>UCR</td> <td>Unified Capabilities Requirements</td> </tr> </tbody> </table>						10Base-X	10 Mbps Ethernet generic designation	IP	Internet Protocol	100Base-X	100 Mbps Ethernet generic designation	ISDN	Integrated Services Digital Network	BRI	Basic Rate Interface	Mbps	Megabits per second	CR	Capability Requirement	NA	Not Applicable	DS1	Digital Signal Level 1 (1.544 Mbps)	NE	Network Element	DS3	Digital Signal Level 3 (44.736 Mbps)	NM	Network Management	E1	European Interface Standard (2.048 Mbps)	OC	Optical Carrier	F-NE	Fixed Network Element	STM	Synchronous Transport Module	FR	Functional Requirement	SUT	System Under Test	GbE	Gigabit Ethernet	UCR	Unified Capabilities Requirements
10Base-X	10 Mbps Ethernet generic designation	IP	Internet Protocol																																										
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Table 4. SUT F-NE CRs and FRs Status

CR/FR ID	Capability/Function	Applicability (See note.)	Reference (UCR 2008, Change 2)	Status	Remarks																																												
F-NE CR/FR																																																	
1	General NE Requirements																																																
	General Requirements	Required	5.9.2.1	Met																																													
	Alarms	Required	5.9.2.1.1	Met																																													
	Congestion Control & Latency	Required	5.9.2.1.2	Met																																													
2	Compression																																																
	G.726	Conditional	5.9.2.2	NA	Not supported by the SUT.																																												
	G.728	Conditional	5.9.2.2	NA	Not supported by the SUT.																																												
	G.729	Conditional	5.9.2.2	NA	Not supported by the SUT.																																												
3	Interface Requirements																																																
	Timing	Required	5.9.2.3.7	Met																																													
4	Device Management																																																
	Management Options	Required	5.9.2.4.1	Met																																													
	Fault Management	Conditional	5.9.2.4.2	Met																																													
	Loop-Back Capability	Conditional	5.9.2.4.3	Met																																													
	Operational Configuration Restoral	Required	5.9.2.4.4	Met																																													
5	DLoS																																																
	DLoS Transport	Conditional	5.9.2.4.5	NA	Not supported by the SUT.																																												
6	IPv6 Requirements																																																
	Product Requirements	Required	5.3.5.4	Met	SUT is a Layer-2 device and transports IPv4 and IPv6 traffic transparently.																																												
7	NM Requirements																																																
	VVoIP NMS Interface Requirements	Required	5.3.2.4.4	Met																																													
	General Management Requirements	Required	5.3.2.17.2	Met																																													
<p>NOTE: Annotation of “required” refers to high-level requirement category. Applicability of each sub-requirement is provided in Enclosure 3.</p> <p>LEGEND:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">ADPCM</td> <td style="width: 33%;">Adaptive Differential Pulse Code Modulation</td> <td style="width: 33%;">IPv6</td> <td style="width: 33%;">Internet Protocol version 6</td> </tr> <tr> <td>CR</td> <td>Capability Requirement</td> <td>ITU-T</td> <td>International Telecommunication Union – Telecommunication</td> </tr> <tr> <td>CS-ACELP</td> <td>Conjugate Structure-Algebraic Code Excited Linear Prediction</td> <td>kbps</td> <td>kilobits per second</td> </tr> <tr> <td>DLoS</td> <td>Direct Line of Sight</td> <td>LD-CELP</td> <td>Low Delay-Code Excited Linear Prediction</td> </tr> <tr> <td>F-NE</td> <td>Fixed-Network Element</td> <td>NA</td> <td>Not Applicable</td> </tr> <tr> <td>FR</td> <td>Functional Requirement</td> <td>NE</td> <td>Network Element</td> </tr> <tr> <td>G.726</td> <td>ITU-T speech codec for ADPCM (32 kbps)</td> <td>NM</td> <td>Network Management</td> </tr> <tr> <td>G.728</td> <td>ITU-T speech codec for LD-CELP (16 kbps)</td> <td>NMS</td> <td>Network Management System</td> </tr> <tr> <td>G.729</td> <td>ITU-T speech codec for CS-ACELP (8 kbps)</td> <td>SUT</td> <td>System Under Test</td> </tr> <tr> <td>ID</td> <td>Identification</td> <td>UCR</td> <td>Unified Capabilities Requirements</td> </tr> <tr> <td>IPv4</td> <td>Internet Protocol version 4</td> <td>VVoIP</td> <td>Voice and Video over Internet Protocol</td> </tr> </table>						ADPCM	Adaptive Differential Pulse Code Modulation	IPv6	Internet Protocol version 6	CR	Capability Requirement	ITU-T	International Telecommunication Union – Telecommunication	CS-ACELP	Conjugate Structure-Algebraic Code Excited Linear Prediction	kbps	kilobits per second	DLoS	Direct Line of Sight	LD-CELP	Low Delay-Code Excited Linear Prediction	F-NE	Fixed-Network Element	NA	Not Applicable	FR	Functional Requirement	NE	Network Element	G.726	ITU-T speech codec for ADPCM (32 kbps)	NM	Network Management	G.728	ITU-T speech codec for LD-CELP (16 kbps)	NMS	Network Management System	G.729	ITU-T speech codec for CS-ACELP (8 kbps)	SUT	System Under Test	ID	Identification	UCR	Unified Capabilities Requirements	IPv4	Internet Protocol version 4	VVoIP	Voice and Video over Internet Protocol
ADPCM	Adaptive Differential Pulse Code Modulation	IPv6	Internet Protocol version 6																																														
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Table 5. Updated Software Proposed to be Included to the APL in DTR 1

Updated Software	Description	Comparable with Approved Software								
AF 6500 software release 7.02	The AF 6500 release 7.02 software provides robustness improvements to the AF 6500 release 7.0 and 7.01 software without adding new features to the SUT.	AF 6500 software release 7.01								
<p>LEGEND:</p> <table> <tr> <td>AF</td> <td>ActivFlex</td> <td>DTR</td> <td>Desktop Review</td> </tr> <tr> <td>APL</td> <td>Approved Product List</td> <td>SUT</td> <td>System Under Test</td> </tr> </table>			AF	ActivFlex	DTR	Desktop Review	APL	Approved Product List	SUT	System Under Test
AF	ActivFlex	DTR	Desktop Review							
APL	Approved Product List	SUT	System Under Test							

5. In accordance with the Program Manager’s request, JITC did not develop a detailed test report. JITC distributes interoperability information via the JITC Electronic Report Distribution 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, which .mil/.gov users can access 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 at <http://jit.fhu.disa.mil> (NIPRNet). Information related to Approved Products List (APL) testing is available on the DISA APL Testing and Certification website located at <http://www.disa.mil/Services/Network-Services/UCCO>. All associated test information is available on the DISA Unified Capability Certification Office APL Integrated Tracking System (APLITS) website located at <https://aplits.disa.mil>.

6. JITC testing point of contact is Ms. Fanny Lee-Linnick, commercial (301) 743-4259. Her e-mail address is Fanny.Lee-Linnick.civ@mail.mil, mailing address: 3341 Strauss Avenue, Suite 236, Indian Head, Maryland 20640-5149. The Tracking Number for the SUT is 1023101.

FOR THE COMMANDER:



for BRADLEY A. CLARK
Acting Chief
Battlespace Communications Portfolio

Enclosure a/s

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US Navy, OPNAV N2/N6FP12

US Army, DA-OSA, CIO/G-6 ASA(ALT), SAIS-IOQ

US Air Force, A3CNN/A6CNN

US Marine Corps, MARCORSSYSCOM, SIAT, A&CE Division

US Coast Guard, CG-64

DISA/TEMC

DIA, Office of the Acquisition Executive

NSG Interoperability Assessment Team

DOT&E, Netcentric Systems and Naval Warfare

Medical Health Systems, JMIS IV&V

ADDITIONAL REFERENCES

- (c) Office of the Assistant Secretary of Defense, “Department of Defense Unified Capabilities Requirements 2008 Change 2,” December 2010
- (d) Ciena Desk Top Review (DTR)-1 Reference Document, “Ciena Product Change Notice – Export Pipe-Delimited ,” 10 August 2011
- (e) Joint Interoperability Test Command Document, “Information Assurance Findings Summary for Ciena ActivFlex 6500 Packet Optical Platform, Software Release 7.01 (TN 1023101),” 7 June 2011