DEFENSE INFORMATION SYSTEMS AGENCY
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IN REPLY REFER TO: Joint Interoperability Test Command (JTE) **8 Jan 14**

MEMORANDUM FOR DISTRIBUTION

SUBJECT: Extension of the Special Interoperability Test Certification of Cornet Technology Inc. ClearWave with Software Release 2.4.0.3

References: (a) DOD Directive 4630.05, "Interoperability and Supportability of Information Technology (IT) and National Security Systems (NSS)," 5 May 2004
(b) CJCSI 6212.01E, "Interoperability and Supportability of Information Technology and National Security Systems," 15 December 2008
(c) through (f), 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 Cornet Technology Inc. ClearWave with Software Release 2.4.0.3 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 Information System Network (DISN) as a Fixed Network Element (F-NE) as set forth in Reference (c). The SUT is a physical layer, single mode, fiber matrix switch. The SUT is certified for operation with any product on the Unified Capabilities (UC) Approved Products List (APL) that is certified with single mode fiber interfaces. The SUT meets the critical interoperability requirements set forth in Reference (c) and testing was conducted using test procedures derived from Reference (d). No other configurations, features, or functions, except those cited within this report, are certified by the JITC. This certification expires upon changes that could affect interoperability, but no later than three years from the date of the original UC APL memorandum (8 August 2012).

3. The extension of this certification is based upon Desktop Review (DTR) 1. The original certification, documented in Reference (e), is based on interoperability testing conducted by JITC at the Global Information Grid Network Test Facility, Fort Huachuca, Arizona, from 30 January through 3 February 2012. The DISA CA granted accreditation on 25 July 2012 based on the security testing completed by DISA-led Information Assurance (IA) test teams and published in a separate report, Reference (f). This DTR was requested to update the IntelView software from 2.0.6-5 to 2.6. JITC determined IA Verification and Validation (V&V) testing was required prior to approval. The DISA-led IA test team conducted V&V testing from 11 through 14 October 2013 and successfully verified the IA changes associated with this DTR. JITC analysis determined that this software update would not have any impact on the interoperability of the SUT; therefore, no interoperability testing was conducted. The DISA CA provided a positive recommendation for this update on 7 January 2014. Therefore, JITC

approves this DTR. The results of the IA testing are published in a separate report, Reference (f).

4. Table 1 depicts the SUT as updated with DTR 1. The overall interoperability status and the Capability Requirements (CR) and Feature Requirements (FR) used to evaluate the interoperability of the SUT are indicated in Table 2.

Table 1. SUT Configuration

System Name	Software	
Required Ancillary Equipment (Site Provided)	Public Key Infrastructure, Active Directory	
SUT		
Cornet ClearWave Rel. 2.4.0.3	**Hardware**	**Software/Firmware**
	ClearWave Switch, Low Profile LP 320 X 320	FW V2.4.0.3
	SPC8 Cards CN6100-1: 8 x 8 Soft Patch Cards control all the switching for the fiber optic switch paths	NA
	Database Server/Client (See note.)	MS Windows 7 with IntelView Management Software Release 2.6

NOTE: The IntelView was originally tested as a separate server and client. IntelView was changed to one application with DTR 1. The IntelView application was updated from version 2.0.6-5 to 2.6 with DTR 1. The IntelView application was originally supported on MS Windows 7 or Linux; however, Linux has been removed with DTR 1.

LEGEND:

DTR	Desktop Review	NA	Not Applicable
FW	Firmware	Rel.	Release
MS	Microsoft	SUT	System Under Test

Table 2. SUT Functional Requirements and Interoperability Status

Interface	Critical	Certified	Functional Requirements	Status	UCR Reference
Fiber Optic (Single Mode)	No (See note 1.)	Yes	MOS (R)	Met	UCR Section 5.9.2.1
			BERT (R)	Met	UCR Section 5.9.2.1
			Secure Transmission (Voice and Data) (R)	Met	UCR Section 5.9.2.1
			Modem (R)	Met	UCR Section 5.9.2.1
			Facsimile (R)	Met	UCR Section 5.9.2.1
			Call Control Signals (R)	Met	UCR Section 5.9.2.1
			Alarms (R)	Met	UCR Section 5.9.2.1
			Call Congestion Control (R)	Met	UCR Section 5.9.2.1
			Management Option (R) The SUT shall be managed by one of the following: Local Management (Front/Back Panel and/or external console), ADIMSS, or NM System deployed by DoD components.	Met	UCR Section 5.9.2.4.1
			The NE shall provide data/monitoring via one or more of the following physical interfaces: • Ethernet/TCP/IP (IEEE 802.3) • Serial (EIA-232)/Asynchronous • Serial/Synchronous (ITU-T X.25 and/or BX.25 variant)	Met	UCR Section 5.9.2.4.1
			Operational Configuration Restoral (R)	Met	UCR Section 5.9.2.4.4
			Security STIGs and DoDI 8510.01 (DIACAP) (R)	Met (See note 2.)	UCR Section 5.9.2.6

Table 2. SUT Functional Requirements and Interoperability Status (continued)

NOTES:
1. The UCR 2008, Change 3 does not stipulate a minimum required DISN access interface.
2. Information assurance testing is accomplished via DISA-led Information Assurance test teams and published in a separate report, Reference (f).

LEGEND:

ADIMSS	Advanced DSN Integrated Management Support System
BERT	Bit Error Rate Test
BX.25	Bell Labs X.25 variant
DCE	Data Circuit-terminating Equipment
DIACAP	Department of Defense Information Assurance Certification and Accreditation Process
DoD	Department of Defense
DISA	Defense Information Systems Agency
DISN	Defense Information System Network
DSN	Defense Switched Network
DTE	Data Terminal Equipment
EIA	Electronic Industries Alliance
EIA-232	Standard for defining the mechanical and electrical characteristics for connecting DTE and DCE data communications devices
IEEE	Institute of Electrical and Electronics Engineers
IP	Internet Protocol
ITU-T	International Telecommunication Union - Telecommunication Standardization Sector
MOS	Mean Opinion Score
NE	Network Element
NM	Network Management
R	Required
STIG	Security Technical Implementation Guides
SUT	System Under Test
TCP	Transmission Control Protocol
UCR	Unified Capabilities Requirements
X.25	Interface between DTE and DCE for terminals operating in the packet mode and connected to public data networks by dedicated circuit

5. JITC distributes interoperability information via the JITC Electronic Report Distribution (ERD) system, which uses Sensitive but Unclassified IP Data (formerly known as NIPRNet) e-mail. Interoperability status information is available via the JITC System Tracking Program (STP). STP is accessible by .mil/.gov users 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/. Due to the sensitivity of the information, the Information Assurance Accreditation Package (IAAP) that contains the approved configuration and deployment guide must be requested directly from the Unified Capabilities Certification Office (UCCO), e-mail: disa.meade.ns.list.unified-capabilities-certification-office@mail.mil. All associated information is available on the DISA UCCO website located at http://www.disa.mil/Services/Network-Services/UCCO.

6. The JITC point of contact is Mr. Dale Fulton, DSN 879-0507, commercial (520) 538-0507, FAX DSN 879-4347, or e-mail to dale.h.fulton.civ@mail.mil. The JITC's mailing address is P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The tracking number for the SUT is 1104001.

FOR THE COMMANDER:

Enclosure a/s

for RIC HARRISON
Chief
Networks/Communications and UC Portfolio

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UCCO

ADDITIONAL REFERENCES

(c) Defense Information Systems Agency (DISA), "Department of Defense Unified Capabilities Requirements 2008, Change 3," September 2011

(d) Joint Interoperability Test Command, "Defense Switched Network Generic Switch Test Plan (GSTP), Change 2," 2 October 2006

(e) Joint Interoperability Test Command, Memo, JTE, "Special Interoperability Test Certification of Cornet Technology Inc. ClearWave with Software Release 2.4.0.3," 26 July 2012

(f) Joint Interoperability Test Command, "Information Assurance (IA) Assessment of Cornet Technology Inc. ClearWave with Software Release 2.4.0.3, (Tracking Number 1104001)," Draft