



## DEFENSE INFORMATION SYSTEMS AGENCY

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IN REPLY  
REFER TO: Joint Interoperability Test Command (JTE)

3 June 2020

### MEMORANDUM FOR DISTRIBUTION

SUBJECT: Extension of the Joint Interoperability Certification of the Forum Communications Consortium III with Software Release 11.1.1

References: (a) Department of Defense Instruction 8100.04, "DoD Unified Capabilities (UC)," 9 December 2010  
(b) Office of the Department of Defense Chief Information Officer, "Department of Defense Unified Capabilities Requirements 2013, Change 1," June 2015  
(c) through (e), see Enclosure

**1. Certification Authority.** Reference (a) establishes the Joint Interoperability Test Command (JITC) as the Joint Interoperability Certification Authority (CA) for Department of Defense Information Network (DoDIN) products, Reference (b).

**2. Conditions of Certification.** Forum Communications Consortium III with Software Release 11.1.1, is hereinafter referred to as the System Under Test (SUT). The SUT meets the critical requirements of the Unified Capabilities Requirements (UCR), Reference (b), with the optional capability of Multi-Level Precedence & Preemption (MLPP), on the Defense Information Systems Network (DISN) as an audio only (AO) Unified Capabilities Conferencing System (UCCS) and is certified for joint use with no waivers, conditions, or open discrepancies (See Table 1). The SUT was tested and certified for use in the following configurations:

- With the SUT registered as an integrated Assured Services (AS) Session Initiation Protocol (SIP) component of the following session controllers (SCs): REDCOM High Density Exchange (HDX) and SLICE, Unify Inc. OpenScape Voice, Genband EXPERiUS, Avaya Aura Enterprise Session Controller (ESC), the Avaya AS5300 and the NEC Univerge 3C Session Controller (SC). The Consortium III was not tested with a direct connection to the NEC Univerge 3C SC; however, the prior version, Consortium II, was successfully tested with a direct connection to the NEC Univerge 3C SC. Therefore, by analysis the NEC Univerge 3C is certified for a direct connection to the Consortium III because there was no signaling change in the upgrade from the Consortium II.
- With the SUT as a standalone AS-SIP appliance, fronted by an SBC, and registered to any of the LSCs listed on the DoDIN Approved Products List (APL) via the Avaya AS5300 soft switch (SS).

- With the SUT connected to any time division, multiplexing (TDM) circuit switch currently, or previously, listed on the APL with a certified Integrated Services Digital Network (ISDN) Primary Rate Interface (PRI) T1 interface. The testing of this interface was combined with the testing of the SUT as a standalone appliance and an integrated AS-SIP component of the above listed SCs.

This certification expires upon changes that affect interoperability, but no later than the expiration date specified in the DoDIN APL memorandum.

This extension of the certification is for Desktop Review (DTR) 1. DTR 1 was requested to extend the DoDIN APL expiration date for an additional three (3) years and to update the SUT Software Release version from 11.1.0 to 11.1.1. See Paragraph 4 for additional details.

**Table 1. Conditions**

Condition	Operational Impact	Remarks
Not applicable; the Forum Communications Consortium III, with Software Release 11.1.1, meets all of the critical joint interoperability requirements in accordance with the Unified Capabilities Requirements (UCR), Reference (b).		

**3. Interoperability Status.** Table 2 provides the SUT interface interoperability status, Table 3 provides the Capability Requirements and Functional Requirements status, and Table 4 provides a DoDIN APL product summary, to include all subsequent DTR updates.

**Table 2. SUT Interface Status**

Interface	Applicability (R), (O), (C) (See note 1.)	Status	Remarks
<b>Network Management Interface</b>			
Ethernet 1/100 Mbps (SNMPv3)	R	Met	See notes 3 and 4.
<b>Access (User) Interfaces (See note 2.)</b>			
Ethernet 10 Mbps (AS-SIP)	R	Met	See notes 3, and 4.
Ethernet 100 Mbps (AS-SIP)	R	Met	See notes 3, and 4.
Ethernet 1000 Mbps (AS-SIP)	R	Met	See notes 3 and 4.
Ethernet 10000 Mbps (AS-SIP)	R	Not Met	See note 3.
Ethernet 10 Mbps (H.323)	O	Not Tested	See note 5.
Ethernet 100 Mbps (H.323)	O	Not Tested	See note 5.
Ethernet 1000 Mbps (H.323)	O	Not Tested	See note 5.
Ethernet 10000 Mbps (H.323)	O	Not Tested	See note 5.
T1 ISDN PRI (H.320)	O	Met	
E1 ISDN PRI (H.320)	O	Not Tested	
T1 CAS	O	Not Tested	
Serial	O	Not Tested	
<b>End Instrument Interface</b>			
ISDN (H.320)	O	Not Tested	See note 5.
Ethernet (H.323)	O	Not Tested	See note 5.
<b>NOTE(S):</b>			
1. The SUT high-level requirements are depicted in Table 3. These high-level requirements refer to a more detailed list of requirements provided in Enclosure 3 of Reference (c).			

**Table 2. SUT Interface Status (continued)**

<b>NOTE(S):</b> (continued)			
2. The SUT must provide a minimum of one of the listed interfaces.			
3. The UCR does not specify a particular IEEE 802.x standard interface for a UCCP			
4. The SUT met the critical CRs and FRs for the IEEE 802.3i and IEEE 802.3u interfaces.			
5. The SUT is an AO device. Video Only and Audio/Video requirements do not apply.			
<b>LEGEND:</b>			
AO	Audio Only	H.323	Standard for multi-media communications on packet-based networks
ANSI	American National Standards Institute	IEEE	Institute of Electrical and Electronics Engineers
AS-SIP	Assured Services Session Initiation Protocol	ISDN	Integrated Services Digital Network
C	Conditional	Mbps	Megabits per second
CAS	Channel Associated Signaling	O	Optional
CR	Capability Requirements	PRI	Primary Rate Interface
DSN	Defense Switched Network	R	Required
E1	European Basic Multiplex Rate (2.048 Mbps)	SUT	System under Test
FR	Functional Requirements	T1	Digital Transmission Link Level 1 (1.544 Mbps)
H.320	ITU Standard for narrowband VTC		

**Table 3. SUT Capability Requirements and Functional Requirements Status**

CR/FR ID	UCR Requirement (See note 1.)	UCR 2013 Change 1 Reference	Status
1	System Description	3.4.2	See notes 2 and 3.
2	Service	3.4.3	Met
3	Service Performance	3.4.4	Met
4	Service Management	3.4.5	See notes 2 and 3.

**NOTE(S):**

- The annotation of “required” refers to a high-level requirement category. The applicability of each sub-requirement is provided in Enclosure 3 of Reference (c).
- JITC-led Cybersecurity test team performed Cybersecurity testing and published the results in a separate report, Reference (d).
- The SUT met the requirements for an AO Unified Capabilities Conferencing System (UCCS).

**LEGEND:**

AO	Audio Only	JITC	Joint Interoperability Test Command
CR	Capability Requirement	UC	Unified Capabilities
FR	Functional Requirement	UCR	Unified Capabilities Requirements
ID	Identification	SUT	System Under Test

**Table 4. DoDIN APL Product Summary (UCCS Audio Only)**

Product Identification			
Product Name	Forum Communications Consortium III		
Software Release	11.1.1 (See note 1.)		
UCR Product Type(s)	Unified Capabilities Conference System (UCCS) (Audio Only)		
Product Description	The Consortium III Unified Capabilities Conferencing System (UCCS) provides real-time audio conferencing capabilities for the DoD. The system is audio-only; video conferencing is not supported.		
UC Certified Function	Component/Sub-component Name (See note 2.)	Version (See note 1.)	Remarks
Audio Conferencing Server	Consortium III Chassis	11.1.1 CentOS Linux 6.9 Apache Web 2.2	
Management	Management Workstation	Microsoft Windows 10	Site provided workstation/laptop

**NOTE(S):**

- With DTR 1, the SUT Software Release version was updated from 11.1.0 to 11.1.1.
- The detailed component and subcomponent list is provided in Table 3-3 of Enclosure 3 in Reference (c).

**Table 4. DoDIN APL Product Summary (UCCS Audio Only) (continued)**

<b>LEGEND:</b>			
APL	Approved Product List	SUT	System Under Test
DoD	Department of Defense	UCR	Unified Capabilities Requirements
DoDIN	DoD Information Network	UCCS	Unified Capabilities Conference System

**4. Test Details.** This extension of the certification is based on DTR 1. The original certification, documented in Reference (c), was based on interoperability testing, review of the vendor’s Letters of Compliance (LoC), and DISA Certifying Authority Recommendation for inclusion on the DoDIN APL. JITC conducted testing at the Global Information Grid Network Test Facility at Fort Huachuca, Arizona, from 18 September through 22 September 2017 using test procedures derived from Reference (e), and completed review of the Vendor LoC on 18 September 2017. A JITC-led Cybersecurity (CS) test team conducted CS testing and published the results in a separate report, Reference (d). Enclosure 2 of Reference (c) documents the test results and describes the tested network and system configurations. Enclosure 3 of Reference (c) provides a detailed list of the interface, capability, and functional requirements.

DTR 1 was requested to extend the DoDIN APL expiration date for an additional three (3) years and to update the SUT Software Release version from 11.1.0 to 11.1.1. JITC analysis determined no additional CS or IO testing was required because the extension of the expiration date and the software update to implement defect resolutions and other minor user enhancements did not change the certified IO features and functions or approved CS posture of the SUT. Furthermore, analysis determined there were no expired Vendor Plan of Action and Milestones. Therefore, based on analysis and no change to the certified SUT IO features and functions, JITC approves this DTR.

Additionally, the approved CS posture of the SUT is documented in a separate report, Reference (d).

**5. Additional Information.** 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 CS Assessment Package (CAP) that contains the approved configuration and deployment guide must be requested directly from the Approved Products Certification Office (APCO), e-mail: [disa.meade.ie.list.approved-products-certification-office@mail.mil](mailto:disa.meade.ie.list.approved-products-certification-office@mail.mil). All associated information is available on the DISA APCO website located at <https://aplits.disa.mil/>.

JITC Memo, JTE, Extension of the Joint Interoperability Certification of the Forum  
Communications Consortium III with Software Release 11.1.1

**6. Point of Contact (POC).** JITC POC: Lisa Esquivel; commercial telephone (520) 538-5531; DSN telephone 879-5531; FAX DSN 879-4347; e-mail address: [lisa.r.esquivel.civ@mail.mil](mailto:lisa.r.esquivel.civ@mail.mil); mailing address: Joint Interoperability Test Command, ATTN: JTE (Lisa Esquivel), P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The APCO tracking number for the SUT is 1710301.

FOR THE COMMANDER:

Enclosure a/s

for RIC HARRISON  
Chief  
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## **ADDITIONAL REFERENCES**

- (c) Joint Interoperability Test Command (JITC) Memo, JTE, “Joint Interoperability Certification of the Forum Communications Consortium III, Release 11.1.0,” 19 October 2017
- (d) Joint Interoperability Test Command, “Cybersecurity Assessment Report (CAR) of Forum Communications Consortium III Software Release 11.1.0” (Tracking Number 1710301),” September 2017
- (e) Joint Interoperability Test Command, “Unified Capabilities Conference System (UCCS) Test Procedures Version 1.0 for Unified Capabilities Requirements (UCR) 2013 Change 1,” November 2015