



DEFENSE INFORMATION SYSTEMS AGENCY

P. O. BOX 549
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IN REPLY
REFER TO: Joint Interoperability Test Command (JTE)

7 July 2021

MEMORANDUM FOR DISTRIBUTION

SUBJECT: Extension of the Joint Interoperability Certification of the Forum Communications Consortium III with Software Release 11.2.0

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 11.2.0, is hereinafter referred to as the System Under Test (SUT). The SUT meets the critical requirements of the Unified Capabilities Requirements, 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) 2. DTR 2 was requested to update the software versions on the Consortium III as follows:

- SUT Software Release from 11.1.1 to 11.2.0
- Community ENTerprise Operating System (CentOS) Linux from 6.9 to 7.9.2009 (due to end-of-life status on the CentOS 6.x version)
- Apache Web from 2.2 to 2.4.6

See Paragraph 4 for test details.

Table 1. Conditions

Condition	Operational Impact	Remarks
Not applicable; the Forum Communications Consortium III, with Software Release 11.2.0, meets all of the critical joint interoperability requirements in accordance with the Unified Capabilities Requirements, 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 subsequent DTR updates.

Table 2. SUT Interface Status

Interface	Applicability (R), (O), (C) (See note 1.)	Status	Remarks
Network Management Interface			
Ethernet 1/100 Mbps (SNMPv3)	R	Met	See notes 3 and 4.
Access (User) Interfaces (See note 2.)			
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.

(Table continues on next page.)

Table 2. SUT Interface Status (continued)

JITC Memo, JTE, Extension of the Joint Interoperability Certification of the Forum Communications Consortium III with Software Release 11.2.0

Interface	Applicability (R), (O), (C) (See note 1.)	Status	Remarks																																												
Access (User) Interfaces (See note 2.) (continued)																																															
T1 ISDN PRI (H.320)	O	Met																																													
E1 ISDN PRI (H.320)	O	Not Tested																																													
T1 CAS	O	Not Tested																																													
Serial	O	Not Tested																																													
End Instrument Interface																																															
ISDN (H.320)	O	Not Tested	See note 5.																																												
Ethernet (H.323)	O	Not Tested	See note 5.																																												
<p>NOTE(S):</p> <ol style="list-style-type: none"> Table 3 depicts the SUT high-level requirements. Refer to Enclosure 3 of Reference (c) for a detailed list of requirements. The SUT must provide a minimum of one of the listed interfaces. The UCR does not specify a particular IEEE 802.x standard interface for a UCCP. The SUT met the critical CRs and FRs for the IEEE 802.3i and IEEE 802.3u interfaces. The SUT is an AO device. Video Only and Audio/Video requirements do not apply. <p>LEGEND:</p> <table style="width: 100%; border: none;"> <tr> <td>AO</td><td>Audio Only</td> <td>ISDN</td><td>Integrated Services Digital Network</td> </tr> <tr> <td>AS-SIP</td><td>Assured Services Session Initiation Protocol</td> <td>Mbps</td><td>Megabits per second</td> </tr> <tr> <td>C</td><td>Conditional</td> <td>O</td><td>Optional</td> </tr> <tr> <td>CAS</td><td>Channel Associated Signaling</td> <td>PRI</td><td>Primary Rate Interface</td> </tr> <tr> <td>CR</td><td>Capability Requirements</td> <td>R</td><td>Required</td> </tr> <tr> <td>E1</td><td>European Basic Multiplex Rate (2.048 Mbps)</td> <td>SNMP</td><td>Simple Network Management Protocol</td> </tr> <tr> <td>FR</td><td>Functional Requirements</td> <td>SUT</td><td>System under Test</td> </tr> <tr> <td>H.320</td><td>ITU Standard for narrowband VTC</td> <td>T1</td><td>Digital Transmission Link Level 1 (1.544 Mbps)</td> </tr> <tr> <td>H.323</td><td>Standard for multi-media communications on packet-based networks</td> <td>UCCP</td><td>Unified Capability Collaborative Product</td> </tr> <tr> <td>IEEE</td><td>Institute of Electrical and Electronics Engineers</td> <td>UCR</td><td>Unified Capabilities Requirements</td> </tr> <tr> <td></td><td></td> <td>v</td><td>version</td> </tr> </table>				AO	Audio Only	ISDN	Integrated Services Digital Network	AS-SIP	Assured Services Session Initiation Protocol	Mbps	Megabits per second	C	Conditional	O	Optional	CAS	Channel Associated Signaling	PRI	Primary Rate Interface	CR	Capability Requirements	R	Required	E1	European Basic Multiplex Rate (2.048 Mbps)	SNMP	Simple Network Management Protocol	FR	Functional Requirements	SUT	System under Test	H.320	ITU Standard for narrowband VTC	T1	Digital Transmission Link Level 1 (1.544 Mbps)	H.323	Standard for multi-media communications on packet-based networks	UCCP	Unified Capability Collaborative Product	IEEE	Institute of Electrical and Electronics Engineers	UCR	Unified Capabilities Requirements			v	version
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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.																				
<p>NOTE(S):</p> <ol style="list-style-type: none"> The annotation of “required” refers to a high-level requirement category. Refer to Enclosure 3 of Reference (c) for the applicability of each sub-requirement. JITC-led Cybersecurity test team performed Cybersecurity testing and published the results in a separate report, Reference (e). The SUT met the requirements for an AO UCCS. <p>LEGEND:</p> <table style="width: 100%; border: none;"> <tr> <td>AO</td><td>Audio Only</td> <td>UC</td><td>Unified Capabilities</td> </tr> <tr> <td>CR</td><td>Capability Requirement</td> <td>UCCS</td><td>Unified Capabilities Conferencing System</td> </tr> <tr> <td>FR</td><td>Functional Requirement</td> <td>UCR</td><td>Unified Capabilities Requirements</td> </tr> <tr> <td>ID</td><td>Identification</td> <td>SUT</td><td>System Under Test</td> </tr> <tr> <td>JITC</td><td>Joint Interoperability Test Command</td> <td></td><td></td> </tr> </table>				AO	Audio Only	UC	Unified Capabilities	CR	Capability Requirement	UCCS	Unified Capabilities Conferencing System	FR	Functional Requirement	UCR	Unified Capabilities Requirements	ID	Identification	SUT	System Under Test	JITC	Joint Interoperability Test Command		
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Table 4. DoDIN APL Product Summary (UCCS Audio Only)

Product Identification																			
Product Name	Forum Communications Consortium III																		
Software Release	11.2.0 (See note 1.)																		
UCR Product Type(s)	Unified Capabilities Conference System (UCCS) (Audio Only)																		
Product Description	The Consortium III UCCS provides real-time audio conferencing capabilities for the DoD. The system is audio-only; video conferencing is not supported.																		
DoDIN Certified Function	Component/Sub-component Name (See note 2.)	Version (See note 1.)	Remarks																
Audio Conferencing Server	Consortium III Chassis	11.2.0 CentOS Linux 7.9.2009 Apache Web 2.4.6																	
Management	Management Workstation	Microsoft Windows 10	Site-provided workstation/laptop																
<p>NOTE(S):</p> <p>1. With DTR 1, the SUT Software Release version was updated from 11.1.0 to 11.1.1. With DTR 2, the SUT Software Release version was updated from 11.1.1 to 11.2.0, the CentOS Linux version was updated from 6.9 to 7.9.2009 (due to end-of-life status of CentOS 6.x version) and the Apache Web version was updated from 2.2 to 2.4.6.</p> <p>2. Table 3-3 of Enclosure 3 in Reference (c) provides the detailed component and subcomponent list.</p> <p>LEGEND:</p> <table> <tr> <td>APL</td> <td>Approved Product List</td> <td>DTR</td> <td>Desktop Review</td> </tr> <tr> <td>CentOS</td> <td>Community ENTerprise Operating System</td> <td>SUT</td> <td>System Under Test</td> </tr> <tr> <td>DoD</td> <td>Department of Defense</td> <td>UCR</td> <td>Unified Capabilities Requirements</td> </tr> <tr> <td>DoDIN</td> <td>DoD Information Network</td> <td>UCCS</td> <td>Unified Capabilities Conference System</td> </tr> </table>				APL	Approved Product List	DTR	Desktop Review	CentOS	Community ENTerprise Operating System	SUT	System Under Test	DoD	Department of Defense	UCR	Unified Capabilities Requirements	DoDIN	DoD Information Network	UCCS	Unified Capabilities Conference System
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4. Test Details. This extension of the certification is based on DTR 2. 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 completed review of the Vendor’s LoC on 18 September 2017 and conducted testing at the Global Network Test Facility, Fort Huachuca, Arizona from 18 September through 22 September 2017 using test procedures derived from Reference (d). A JITC-led CS test team conducted CS testing and published the results in a separate report, Reference (e).

DTR 2 was requested to update the software versions on the Consortium III as follows:

- SUT Software Release from 11.1.1 to 11.2.0
- CentOS Linux from 6.9 to 7.9.2009 (due to end-of-life status on the CentOS 6.x version)
- Apache Web from 2.2 to 2.4.6

JITC analysis determined CS testing with the updated software was required. Analysis determined no IO testing was required because the software update included minor updates that did not change the certified IO features and functions of the SUT. Furthermore, there were no past due CS or IO Vendor Plan of Action and Milestones (POA&Ms).

JITC conducted CS testing of the SUT with the updated software from 21 June to 22 June 2021 and published the results in a separate report, Reference (e).

Based on analysis, no change to the certified SUT IO features and functions, and no past due IO Vendor POA&Ms, JITC approves DTR 2.

5. Additional Information. JITC distributes interoperability information via the JITC Electronic Report Distribution (ERD) system, which uses Sensitive but Unclassified Internet Protocol 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. All associated information is available on the DISA APCO website located at <https://aplits.disa.mil/>.

6. Point of Contact (POC). JITC POC: Ms. Kathleen Kendall, commercial telephone (520) 538-0507, DSN telephone 312-879-0507, FAX DSN 312-879-4347; e-mail address: Kathleen.a.kendall2.civ@mail.mil; mailing address: Joint Interoperability Test Command, ATTN: JTE2 (Ms. Kathleen Kendall), 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 JEFFREY P. O'DONNELL
LTC, USA
Acting Chief
Networks/Communications &
DoDIN Capabilities Division

JITC Memo, JTE, Extension of the Joint Interoperability Certification of the Forum
Communications Consortium III with Software Release 11.2.0

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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) JITC, “Unified Capabilities Conference System (UCCS) Test Procedures Version 1.0 for Unified Capabilities Requirements (UCR) 2013 Change 1,” November 2015
- (e) JITC, “Cybersecurity Assessment Report for Forum Communications Consortium III, Software Release 11.2.0, Tracking Number (TN) 1710301,” July 2021