



## DEFENSE INFORMATION SYSTEMS AGENCY

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

**3 Dec 13**

### MEMORANDUM FOR DISTRIBUTION

**SUBJECT:** Extension of the Special Interoperability Test Certification of the Avaya Aura<sup>®</sup> Application Server (AS) 5300 with Software Release 3.0 Wide Area Network (WAN) Softswitch (SS) with integrated Local Session Controller (LSC)

**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 (g), see Enclosure

1. References (a) and (b) establish Defense Information Systems Agency (DISA) Joint Interoperability Test Command (JITC), as the responsible organization for interoperability test certification. Reference (c) further establishes JITC as the interoperability Certification Authority (CA) for all Unified Capabilities (UC) products.

2. The Avaya Aura<sup>®</sup> AS 5300 with Software Release 3.0; hereinafter referred to as the System Under Test (SUT), is certified for joint use within the Defense Information System Network (DISN) as a WAN SS with an integrated LSC. The SUT is certified in the United States, including the Continental United States (CONUS), Alaska, Hawaii, and U.S. Caribbean and Pacific Territories. Although the SUT supports European Basic Multiplex Rate (E1) interfaces, they were not tested during the original test and were not covered under this certification. Therefore, the SUT was not certified for joint use outside CONUS in European Telecommunications Standards Institute (ETSI)-compliant countries. However, the SUT E1 Primary Rate Interface (PRI) interface was successfully tested with Desktop Review (DTR) 3 and it is now included with this certification. The fielding of the SUT is limited to IP version 4 (IPv4) across the DISN. Although the SUT supports Internet Protocol version 6 (IPv6), it was not tested inter-enclave because of a limitation of the test network Edge Boundary Controller (EBC) which currently does not support end-to-end IPv6. Therefore, IPv6 is not covered under this certification. JITC will verify inter-enclave IPv6 capabilities of the SUT prior to amending the certification to include the capability. Intra-enclave use of IPv4 and IPv6 is authorized for use. Any new discrepancy noted in the operational environment will be evaluated for impact on the existing certification. These discrepancies will be adjudicated to the satisfaction of DISA via a vendor Plan of Actions and Milestones (POA&M), which will address all new critical Test Discrepancy Reports (TDRs) within 120 days of identification. Testing was conducted using WAN SS and LSC product requirements derived from the Unified Capabilities Requirements (UCR), Reference (d), and WAN SS and LSC test procedures, Reference (e). No other configurations, features, or functions, except those cited within this memorandum, are certified by JITC. This certification expires upon changes that affect interoperability, but no later than

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three years from the date of the original UC Approved Products List (APL) memorandum (2 October 2012); the expiration date is 2 October 2015.

3. The extension of this certification is based upon Desktop Review (DTR) 5. The original certification, documented in Reference (f), is based on interoperability testing conducted by JITC, DISA adjudication of open TDRs, review of the vendor's Letters of Compliance (LoC), and DISA CA approval of the Information Assurance (IA) configuration. Interoperability testing was conducted by JITC, Fort Huachuca, Arizona, from 27 February through 20 April 2012. Additional interoperability testing was conducted from 14 May to 8 June 2012 to address test procedures not completed during the initial test window as well as new firmware on the SUT's end instruments. Review of the vendor's LoC was completed on 11 July 2012. DISA adjudication of outstanding TDRs was completed on 2 August 2012. Additional interoperability testing was conducted from 6 through 8 August 2012, which resulted in the successful demonstration of International Telecommunication Union - Telecommunication Standardization Sector T.38 fax functionality. The DISA CA has reviewed the IA Assessment Report for the SUT, Reference (g), and based on the findings in the report has provided a positive recommendation on 27 September 2012. This DTR was requested to include SP6, which includes both IA and interoperability fixes. Therefore, JITC determined Verification & Validation (V&V) testing was required. JITC conducted interoperability testing from 7 through 18 October 2013. DISA adjudication of outstanding TDRs was completed on 19 November 2013. There were four new interoperability discrepancies found during this V&V test as discussed in the subparagraphs below.

a. Precedence calls above ROUTINE from the Avaya Communication Manager (CM) 6.3 LSCs to an Internet Protocol (IP) End Instrument (EI) on the SUT receive a Blocked Precedence Announcement (BPA) and fail to complete. DISA has accepted and approved the vendor's POA&M and adjudicated this discrepancy as having a minor operational impact.

b. The SUT does not provide Precedence Notification Tone (PNT) to an IP EI preempted while in a ringing state. DISA has accepted and approved the vendor's POA&M and adjudicated this discrepancy as having a minor operational impact.

c. The SUT only supports one way audio on hold interaction with IAD subscribers with Music on Hold (MoH). DISA has accepted and approved the vendor's POA&M and adjudicated this discrepancy as having a minor operational impact.

d. The SUT dial tone is not in line with required specifications. The SUT dial tone provided when there is a message waiting is a PNT instead of a standard dial tone. DISA has accepted and approved the vendor's POA&M and adjudicated this discrepancy as having a minor operational impact.

Additionally, the two discrepancies mentioned in the subparagraphs below, identified during previous testing, were closed as a result of this V&V test.

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a. During testing for DTR 3, ASAC did not function on the SUT's AS5300 3.0 SP3 LSC with IPv6. This discrepancy was fixed and successfully tested with DTR 5, which included SP6.

b. During the original test, the SUT did not fully support LSC dual-homing failover requirements. DISA adjudicated this discrepancy and determined that the UCR failover requirements are immature and require a rewrite. Avaya, in coordination with DISA NS2, has agreed to participate in a multi-vendor interoperability test event to test failover mechanisms between LSCs and SSs in the timeframe determined by DISA NS2 in order to address this discrepancy. JITC conducted multi-vendor V&V failover testing from 8 through 19 October 2012. The SUT was unable to successfully demonstrate failover based on the new draft requirements. This discrepancy was fixed and successfully tested with DTR 5, which included SP6.

Additionally, the following discrepancy identified during previous testing was closed as a result of DISA re-adjudication during this V&V test. The SUT was not tested with the DISN Real Time Services Routing Database or Lightweight Directory Access Protocol Version 3 messages for a Database Query. DISA stated the intent to remove this requirement from the UCR; therefore, this discrepancy is no longer applicable. The DISA CA provided a positive recommendation for this DTR on 26 November 2013, based on the security testing completed DISA-led IA test teams and published in a separate report, Reference (g). Therefore, JITC approves this DTR.

4. Table 1 provides a UC APL product summary including SP6. The interface, Capability Requirements (CR) and Functional Requirements (FR), and component status of the SUT are listed in Tables 2 and 3. The threshold Capability/Functional requirements for WAN SSs and LSCs are established by Sections 5.3.2, 5.3.4, and 5.3.5 of Reference (d) and were used to evaluate the interoperability of the SUT.

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**Table 1. SUT UC APL Product Summary**

<b>Avaya Aura® AS 5300 Rel. 3.0 SP3 (WAN SS with integrated LSC)</b>		
<b>Hardware</b>		<b>Software/Firmware (See note.)</b>
SIP Core OAM&P x2 (HP DL360 or IBM 3550)		<u>Postgresql 9.0.13</u>
		<b><u>RedHat 5.4 mcp_core linux ple2 15.0.35</u></b>
		<b><u>MCP 15.1.0.21 2013-06-07-0907</u></b>
		<b><u>rsit-server-8.0.0.71</u></b>
SIP Core SS SESM (HP DL360 or IBM 3550)		<b><u>RedHat 5.4 mcp_core linux ple2 15.0.35</u></b>
		MCP_15.1.0.17_2012-12-14-0858
		<b><u>rsit-server-8.0.0.71</u></b>
SIP Core LSC SESM (component of the integrated LSC) (HP DL360 or IBM 3550)		<b><u>RedHat 5.4 mcp_core linux ple2 15.0.35</u></b>
		MCP_15.1.0.17_2012-12-14-0858
		<b><u>rsit-server-8.0.0.71</u></b>
Avaya Media Server x2 (HP DL360 or IBM 3550)		AMS base 7.5.0.919_2012.11.29_1014
		<b><u>AMS apps 7.6.0.13 2013.02.20</u></b>
		<b><u>RedHat 5.4 mcp_core linux ple2 15.0.35</u></b>
		<b><u>rsit-server-8.0.0.71</u></b>
Switch Expert x2 (HP DL360 or IBM 3550)		AMS base 7.5.0.919_2012.11.29_1014
		<b><u>AMS apps 7.6.0.13 2013.02.20</u></b>
		<b><u>RedHat 5.4 mcp_core linux ple2 15.0.35</u></b>
AudioCodes EMS (Sun Netra T5220)		AMS base 7.5.0.919_2012.11.29_1014
		<b><u>AMS apps 7.6.0.13 2013.02.20</u></b>
		<b><u>RedHat 5.4 mcp_core linux ple2 15.0.35</u></b>
AudioCodes M3000 GW		<b><u>MySQL 5.1.68 Enterprise Server - Pro</u></b>
		Switch Expert 7.0 build 361
		Windows Server 2008 R2 SP1
AudioCodes M800 GW		Solaris 10
		<b><u>EMS Server 6.2.121</u></b>
		6.20A.055.001
UC Client (site-provided, STIG-compliant)		pSoS 2.5.4
		Embedded Linux Kernel 2.6.21.7
		6.20A.055.001
AudioCodes M800 IAD (component of the integrated LSC)		Windows 7 SP1
		<b><u>UC Client Version: 8.1.5146</u></b>
		Embedded Linux Kernel 2.6.21.7
AudioCodes MP112 IAD (component of the integrated LSC)		6.20A.055.001
		6.20A.055.001
		pSoS 2.5.4
AudioCodes MP124 IAD (component of the integrated LSC)		6.20A.055.001
		6.20A.055.001
		pSoS 2.5.4
Management Workstation (site-provided, STIG-compliant)		Windows 7 SP1
		Switch Expert 7.0 build 361
		EMS Client 6.2.94
<b>Telephones (components of the integrated LSC)</b>		
<b>Telephone Type</b>	<b>Model</b>	<b>Software/Firmware (See note.)</b>
Analog	NA	NA
SIP	1140E	04.02.13.00
SIP	1120E	04.02.13.00
<b>NOTE:</b> The bold, underlined software and firmware releases were included in SP3.		
<b>LEGEND:</b>		
EMS	Element Management System	OAM&P Operations, Administration, Maintenance, and Provisioning
GW	Gateway	SESM Subscriber Edge Services Manager
HDX	High Density Exchange	SIP Session Initiation Protocol
HP	Hewlett Packard	SS Softswitch
IAD	Integrated Access Device	STIG Security Technical Implementation Guides
IBM	International Business Machine	SUT System Under Test
LSC	Local Session Controller	UC Unified Capabilities
MCP	Media Communications Processor	

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**Table 2. SUT Interface Interoperability Status**

Interface	Critical	UCR Reference	Threshold CR/FR (See note 1.)	Status	Remarks
<b>Line Interfaces (See note 2.)</b>					
10Base-X	Yes	5.3.2.6.3	1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 15, 19, 21, 22	Certified	Met threshold CRs/FRs for IEEE 802.3i and 802.3j with the SUT PEIs.
100Base-X	Yes	5.3.2.6.3	1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 15, 19, 21, 22	Certified	Met threshold CRs/FRs for IEEE 802.3u with the SUT PEIs.
1000Base-X	No	5.3.2.6.3	1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 15, 19, 21, 22	Certified	Met threshold CRs/FRs for IEEE 802.3z with the SUT PEIs.
2-wire analog	Yes	5.3.2.6.1.6	1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 15, 19, 21, 22	Certified	Met threshold CRs/FRs for 2-wire analog interfaces with the SUT IAD.
ISDN BRI	No	5.3.2.6.1.8	1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 15, 19, 21, 22	Not Tested	This interface is not supported by the SUT and is not required for an LSC.
<b>External Interfaces (See note 3.)</b>					
10Base-X	Yes	5.3.2.4.2	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	Certified	Met threshold CRs/FRs for IEEE 802.3i and 802.3j for the AS-SIP trunk.
100Base-X	Yes	5.3.2.4.2	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	Certified	Met threshold CRs/FRs for IEEE 802.3u for the AS-SIP trunk.
1000Base-X	Yes	5.3.2.4.2	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	Certified	Met threshold CRs/FRs for IEEE 802.3ab and 802.3z for the AS-SIP trunk.
ISDN T1 PRI ANSI T1.619a	Yes	5.3.2.4.3	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	Certified	Met threshold CRs/FRs. This interface provides legacy DSN and TELEPORT connectivity.
ISDN T1 PRI NI-2	Yes	5.3.2.4.3	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	Certified	Met threshold CRs/FRs. This interface provides PSTN connectivity.
T1 CCS7 ANSI T1.619a	No	5.3.2.12.9	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	Not Tested	Although this interface is offered by the SUT, it was not tested. This interface is not certified by JITC and is not required for a WAN SS or LSC.
T1 CAS	No	5.3.2.12.11	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	Not Tested	This interface is not offered by the SUT and it is not required for a WAN SS or LSC.
E1 PRI ITU-T Q.955.3	No (See note 4.)	5.3.2.12.10	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	Not Tested	Although this interface is offered by the SUT, it was not tested. This interface is not certified by JITC and is not required for a WAN SS or LSC.
E1 PRI ITU-T Q.931	No (See note 4.)	5.3.2.12.10	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	Certified	This interface was not tested during the original test. During testing for DTR 3, this interface was tested and met all requirements. This interface is certified for use in ETSI-compliant countries.
SONET OC-3	No	5.3.2.8.4	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	Certified (See note 5.)	Met threshold CRs/FRs for this interface via connection through the Avaya CS2100 SPM.
<b>NM Interfaces (See note 6.)</b>					
10Base-X	No (See note 7.)	5.3.2.4.4 5.3.2.7.2.8	21, 22	Certified	Met threshold CRs/FRs. Verified via LoC.
100Base-X	No (See note 7.)	5.3.2.4.4 5.3.2.7.2.8	21, 22	Certified	Met threshold CRs/FRs. Verified via LoC.
1000Base-X	No (See note 7.)	5.3.2.4.4 5.3.2.7.2.8	21, 22	Certified	Met threshold CRs/FRs. Verified via LoC.
<b>NOTES:</b>					
1. The SUT high-level CR and FR ID numbers depicted in the Threshold CRs/FRs column can be cross-referenced in Table 3. These high-level CR/FR requirements refer to a detailed list of requirements provided in Enclosure 3.					
2. The line interface requirements and statuses apply to the integrated LSC. Line interfaces are not required for a WAN SS.					

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

<b>NOTES (continued):</b>	
3. The external interface requirements and statuses apply to both the WAN SS and integrated LSC with the exception of the SONET OC-3 interface. This is only supported on the WAN SS.	
4. This interface is conditionally required for deployment in Europe.	
5. The SUT was tested with an OC-3 interface from the AudioCodes Mediant 3000 to the Avaya CS2100 SPM. Neither the Avaya CS2100 nor its internal SPM component is part of the SUT.	
6. The NM interface requirements and statuses apply to both the WAN SS and integrated LSC.	
7. The SUT must provide a minimum of one of the listed interfaces.	
<b>LEGEND:</b>	
10Base-X	10 Mbps Ethernet
100Base-X	100 Mbps Ethernet
1000Base-X	1000 Mbps Ethernet
802.3ab	Gigabit Ethernet Standard over twisted pair
802.3i	10 Mbps twisted pair media for 10Base-X networks
802.3j	10 Mbps fiber media for 10Base-X networks
802.3u	100BASE-TX, 100BASE-T4, 100BASE-FX Fast Ethernet at 100 Mbps with auto negotiation
802.3z	Gigabit Ethernet Standard
ANSI	American National Standards Institute
AS-SIP	Assured Services Session Initiation Protocol
BRI	Basic Rate Interface
CAS	Channel Associated Signaling
CCS7	Common Channel Signaling Number 7
CR	Capability Requirement
CS	Communication Server
DSN	Defense Switched Network
E1	European Basic Multiplex Rate (2.048 Mbps)
ETSI	European Telecommunications Standards Institute
FR	Functional Requirement
IAD	Integrated Access Device
ID	Identification
IEEE	Institute of Electrical and Electronics Engineers
ISDN	Integrated Services Digital Network
ITU-T	International Telecommunication Union - Telecommunication Standardization Sector
JITC	Joint Interoperability Test Command
LoC	Letter of Compliance
LSC	Local Session Controller
Mbps	Megabits per second
MLPP	Multi-Level Precedence and Preemption
NI-2	National ISDN Standard 2
NM	Network Management
OC-3	Optical Carrier Level 3 (155 Mbps)
PEI	Proprietary End Instrument
PRI	Primary Rate Interface
PSTN	Public Switched Telephone Network
Q.931	Signaling Standard for ISDN
Q.955.3	ISDN Signaling Standard for E1 MLPP
SONET	Synchronous Optical Network
SPM	Spectrum Peripheral Module
SS	Softswitch
SS7	Signaling System 7
SUT	System Under Test
T1	Digital Transmission Link Level 1 (1.544 Mbps)
T1.619a	SS7 and ISDN MLPP Signaling Standard for T1
UCR	Unified Capabilities Requirements
WAN	Wide Area Network

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

CR/FR ID	Capability/Function	Applicability (See note 1.)	UCR Reference	Status
1	<b>Assured Services Product Features and Capabilities</b>			
	DSCP Packet Marking	Required (See note 2.)	5.3.2.2.1.4	Met (See note 3.)
	Voice Features and Capabilities	Required	5.3.2.2.2.1	Met (See notes 4, 5.)
	Public Safety Features	Required	5.3.2.2.2.2	Partially Met (See note 6.)
	ASAC – Open Loop	Required (See note 2.)	5.3.2.2.2.3	Met
	Signaling Protocols	Required (See note 2.)	5.3.2.2.3	Partially Met (See note 7.)
	Signaling Performance	Conditional (See note 2.)	5.3.2.2.4	Met
2	<b>Registration, Authentication, and Failover</b>			
	Registration	Required	5.3.2.3.1	Met
	Failover	Required	5.3.2.3.2	Met (See notes 8, 9.)

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**Table 3. SUT Capability Requirements and Functional Requirements Status (continued)**

CR/FR ID	Capability/Function	Applicability (See note 1.)	UCR Reference	Status
3	<b>Product Physical, Quality, and Environmental Factors</b>			
	Availability	Required	5.3.2.5.2.1	Met
	Maximum Downtimes	Required	5.3.2.5.2.2	Met
	Loss of Packets	Required (See note 2.)	5.3.2.5.4	Met
4	<b>Voice End Instruments</b>			
	Tones and Announcements	Required	5.3.2.6.1.1	Partially Met (See note 10.)
	Audio Codecs	Required (See note 2.)	5.3.2.6.1.2	Partially Met (See note 11.)
	VoIP PEI or AEI Audio Performance Requirements	Required (See note 2.)	5.3.2.6.1.3	Partially Met (See notes 7, 12.)
	VoIP Sampling Standard	Required (See note 2.)	5.3.2.6.1.4	Met
	Authentication to LSC	Required (See note 2.)	5.3.2.6.1.5	Met
	Analog Telephone Support	Required (See note 2.)	5.3.2.6.1.6	Partially Met (See notes 13, 14.)
	Softphones	Conditional (See note 2.)	5.3.2.6.1.7	Partially Met (See notes 3, 15, 16.)
	ISDN BRI	Conditional (See note 2.)	5.3.2.6.1.8	Not Tested (See note 3.)
5	<b>Video End Instruments</b>			
	Video End Instrument	Required (See note 2.)	5.3.2.6.2	Partially Met (See notes 3, 18.)
	Display Messages, Tones, and Announcements	Required (See note 2.)	5.3.2.6.2.1	Partially Met (See notes 3, 18.)
	Video Codecs (Including Associated Audio Codecs)	Required (See note 2.)	5.3.2.6.2.2	Partially Met (See notes 3, 15, 16, 18.)
6	<b>LSC Requirements</b>			
	PBAS/ASAC Requirements	Required (See note 2.)	5.3.2.7.2.1	Met
	Calling Number Delivery Requirements	Required (See note 2.)	5.3.2.7.2.2	Met
	LSC Signaling Requirements	Required (See note 2.)	5.3.2.7.2.3	Met
	Service Requirements under Total Loss of WAN Transport	Required (See note 2.)	5.3.2.7.2.4	Met
	Local Location Server and Directory	Required (See note 2.)	5.3.2.7.2.5	Met
	LSC Transport Interface Functions	Required (See note 2.)	5.3.2.7.2.7	Met
	LSC to IP PEI, AEI, and Operator Console Status Verification	Required (See note 2.)	5.3.2.7.2.10	Not Met (See notes 7, 19.)
Line-Side Custom Features Interference	Conditional (See note 2.)	5.3.2.7.2.11	Met	
	Loop Avoidance	Required (See note 2.)	5.3.2.7.3	Not Met (See note 20.)
7	<b>Policing Requirements</b>			
Policing Requirements when Serving an AS-SIP – ITU-T H.323 Gateway	Required (See note 19.)	5.3.2.7.5.1.5	Not Tested (See note 22.)	
8	<b>Global Location Server</b>			
Global Location Server Requirements	Required (See note 19.)	5.3.2.8.2.2	Met	
9	<b>Call Connection Agent Requirements</b>			
	CCA IWF Component	Required	5.3.2.9.2.1	Met
	CCA MGC Component	Required	5.3.2.9.2.2	Met
	SG Component	Conditional	5.3.2.9.2.3	Not Tested (See note 17.)
	CCA-IWF Support for AS-SIP	Required	5.3.2.9.5.1	Met
	CCA-IWF Support for SS7	Conditional	5.3.2.9.5.2	Not Tested (See note 17.)
	CCA-IWF Support for PRI via MG	Required	5.3.2.9.5.3	Met

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**Table 3. SUT Capability Requirements and Functional Requirements Status (continued)**

CR/FR ID	Capability/Function	Applicability (See note 1.)	UCR Reference	Status
9	<b>Call Connection Agent Requirements (continued)</b>			
	CCA-IWF Support for CAS Trunks via MG	Conditional	5.3.2.9.5.4	Not Tested (See note 17.)
	CCA-IWF Support for PEI and AEI Signaling Protocols	Required (See note 2.)	5.3.2.9.5.5	Partially Met (See notes 7, 12, 18.)
	CCA-IWF Support for VoIP and TDM Protocol Interworking	Required	5.3.2.9.5.6	Met
	CCA Preservation of Call Ringing State during Failure Conditions	Required	5.3.2.9.6	Not Met (See note 23.)
	CCA Interactions with Transport Interface Functions	Required (See note 2.)	5.3.2.10.3	Met
	CCA Interactions with the EBC	Required (See note 2.)	5.3.2.10.4	Met
	CCA Support for Admission Control	Required	5.3.2.10.5	Met
	CCA Support for UFS	Required (See note 2.)	5.3.2.10.6	Met
	CCA Support for IA	Required	5.3.2.10.7	Met
	CCA Interaction with VoIP EIs	Required (See note 2.)	5.3.2.10.10	Partially Met (See notes 7, 12, 16.)
	CCA Support for AS Voice and Video	Required (See note 2.)	5.3.2.10.11	Met (See notes 7, 12, 18.)
CCA Interactions with Service Control Functions	Required (See note 2.)	5.3.2.10.12	Met	
CCA Interworking between AS-SIP and SS7	Conditional (See note 2.)	5.3.2.11	Not Tested (See note 17.)	
10	<b>MG Requirements</b>			
	Role of MG In LSC	Required (See note 2.)	5.3.2.12.3.1	Partially Met (See note 24.)
	MG Support for ASAC	Required	5.3.2.12.4.1	Met
	MG and IA Functions	Required	5.3.2.12.4.2	Met
	MG Interaction with Service Control Function	Required (See note 2.)	5.3.2.12.4.3	Met
	MG Interactions with IP Transport Interface Functions	Required (See note 2.)	5.3.2.12.4.4	Met
	MG-EBC interactions	Required (See note 2.)	5.3.2.12.4.5	Met
	MG IP-Based PSTN Interface Requirements	Conditional	5.3.2.12.4.7	Not Tested (See note 17.)
	MG Interaction with VoIP EIs	Required (See note 2.)	5.3.2.12.4.8	Partially Met (See note 7.)
	MG support for User Features and Services	Required (See note 2.)	5.3.2.12.4.9	Met
	MG Interface to TDM	Required	5.3.2.12.5	Met
	MG Interface to TDM Allied and Coalition	Conditional	5.3.2.12.6	Not Tested (See note 25.)
	MG Interface to TDM PSTN in U.S.	Required	5.3.2.12.7	Met
	MG Interfaces to TDM PSTN OCONUS	Required	5.3.2.12.8	Not Tested (See note 25.)
	MG Support for CCS7	Conditional	5.3.2.12.9	Not Tested (See note 17.)
	MG Support for ISDN PRI Trunks	Required	5.3.2.12.10	Met
	MG Support for CAS Trunks	Conditional	5.3.2.12.11	Not Tested (See note 17.)
	MG requirements for VoIP Internal Interfaces	Required (See note 2.)	5.3.2.12.12	Met (See note 26.)
	MG Echo Cancellation	Required	5.3.2.12.13	Met
	MG Clock Timing	Required	5.3.2.12.14	Met
MGC-MG CCA Functions	Required	5.3.2.12.15	Met	
MG ITU-T V.150.1	Required	5.3.2.12.16	Not Met (See notes 13, 14.)	
MG Preservation of Call Ringing during Failure	Required	5.3.2.12.17	Not Met (See notes 23, 27.)	

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**Table 3. SUT Capability Requirements and Functional Requirements Status (continued)**

CR/FR ID	Capability/Function	Applicability (See note 1.)	UCR Reference	Status
11	<b>SG Requirements</b>			
	SG and CCS7 Network Interactions	Conditional	5.3.2.13.5.1	Not Tested (See note 17.)
	SG Interactions with CCA	Conditional	5.3.2.13.5.2	Not Tested (See note 17.)
	SG Interworking Functions	Conditional	5.3.2.13.5.3	Not Tested (See note 17.)
12	<b>WWNDP Requirements</b>			
	WWNDP	Required	5.3.2.16	Met
	DSN WWNDP	Required	5.3.2.16.1	Partially Met (See note 28.)
13	<b>Commercial Cost Avoidance</b>			
	Commercial Cost Avoidance	Required	5.3.2.23	Not Tested (See note 29.)
14	<b>AS-SIP Based for External Devices (Voicemail, Unified Messaging, and Automated Receiving Devices)</b>			
	AS-SIP Requirements for External Interfaces	Conditional (See note 2.)	5.3.2.24	Not Tested (See note 17.)
15	<b>Precedence Call Diversion</b>			
	Precedence Call Diversion	Required	5.3.2.25	Partially Met (See note 19.)
16	<b>Attendant Station Features</b>			
	Precedence and Preemption	Required (See note 2.)	5.3.2.26.1	Not Met (See note 19.)
	Call Display	Required (See note 2.)	5.3.2.26.2	Not Met (See note 19.)
	Class of Service Override	Required (See note 2.)	5.3.2.26.3	Not Met (See note 19.)
	Busy Override and Busy Verification	Required (See note 2.)	5.3.2.26.4	Not Met (See note 19.)
	Night service	Required (See note 2.)	5.3.2.26.5	Not Met (See note 19.)
	Automatic Recall of Attendant	Required (See note 2.)	5.3.2.26.6	Not Met (See note 19.)
	Calls in Queue to the Attendant	Required (See note 2.)	5.3.2.26.7	Not Met (See note 19.)
17	<b>RTS Routing Database Requirements</b>			
	WAN SS to LRDB Interface: DB Queries for HR	Required (See note 19.)	5.3.2.28.2	Not Tested (See note 29.)
	HR Query from WAN SS	Required (See note 19.)	5.3.2.28.2.1	Not Tested (See note 29.)
	WAN SS Actions Based on DB Response	Required (See note 19.)	5.3.2.28.2.4	Not Tested (See note 29.)
	LSC to LRDB Interface: DB Queries for CCA	Required (See note 2.)	5.3.2.28.3	Not Tested (See note 29.)
	CCA Query from LSC	Required (See note 2.)	5.3.2.28.3.1	Not Tested (See note 29.)
	DB Response When Commercial Number is Not Found	Required (See note 2.)	5.3.2.28.3.3	Not Tested (See note 29.)
	LSC to MRDB Interface: DB Updates for CCA and HR	Required (See note 2.)	5.3.2.28.4	Not Tested (See note 29.)
	LDAP Update Operations	Required (See note 2.)	5.3.2.28.4.1	Not Tested (See note 29.)
	RTS Routing DB "Opt Out" for LSC End Users	Required (See note 2.)	5.3.2.28.4.2	Not Tested (See note 29.)
	Request Processing	Required (See note 2.)	5.3.2.28.5.2.3	Not Tested (See note 29.)
	Client Time-Out	Required	5.3.2.28.5.2.3.1	Not Tested (See note 29.)

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**Table 3. SUT Capability Requirements and Functional Requirements Status (continued)**

CR/FR ID	Capability/Function	Applicability (See note 1.)	UCR Reference	Status
17	<b>RTS Routing Database Requirements (continued)</b>			
	Data Caching	Required	5.3.2.28.5.2.4.2	Not Tested (See note 29.)
	Failover Procedures	Required	5.3.2.28.5.2.5	Not Tested (See note 29.)
	MRDB Failover	Required (See note 2.)	5.3.2.28.5.2.5.1	Not Tested (See note 29.)
	LRDB Failover	Required	5.3.2.28.5.2.5.2	Not Tested (See note 29.)
	Alarms	Required	5.3.2.28.6.3	Not Tested (See note 29.)
	Logs	Required	5.3.2.28.6.4	Not Tested (See note 29.)
	Performance Monitoring	Conditional	5.3.2.28.6.7	Not Tested (See note 29.)
	HR Requirements for Preventing PRI “Hairpin” Routes	Required (See note 3.)	5.3.2.28.8	Not Tested (See note 29.)
	SS Requirements for TBCT	Required (See note 3.)	5.3.2.28.8.1	Not Tested (See note 29.)
	SS Requirements for DSN HR	Required (See note 3.)	5.3.2.28.8.2	Not Tested (See note 29.)
SS HR Call Flow using DSN HR	Required (See note 3.)	5.3.2.28.8.2.3	Not Tested (See note 29.)	
18	<b>Other UC Voice Requirements</b>			
	Other UC Voice Requirements	Required	5.3.2.31	Partially Met (See notes 30, 31, 32.)
19	<b>AS-SIP Requirements</b>			
	SIP Requirements for AS-SIP Signaling Appliances and AS-SIP EIs	Required (See note 2.)	5.3.4.7	Partially Met (See note 7.)
	SIP Session Keep-Alive Timer	Required	5.3.4.8	Met
	Session Description Protocol	Required	5.3.4.9	Met
	Precedence and Preemption	Required	5.3.4.10	Met (See note 33.)
	Policing of Call Count Thresholds	Required (See note 19.)	5.3.4.11	Met
	Video Telephony – General Rules	Required	5.3.4.12	Met
	Calling Services	Required	5.3.4.13	Partially Met (See note 34.)
	SIP Translation Requirements for Inter-working AS-SIP Signaling Appliances	Required	5.3.4.14	Met
	Relevant Timers for the Terminating Gateway and the Originating Gateway	Required	5.3.4.15	Not Tested (See note 35.)
	SIP Requirements for Interworking AS-SIP Signaling Appliances	Required	5.3.4.16	Met
	Keep-Alive Timer Requirements for Interworking AS-SIP Signaling Appliances	Required	5.3.4.17	Met
	Precedence and Preemption Extensions for Interworking AS-SIP Signaling Appliances	Required	5.3.4.18	Met
Supplementary Services	Required	5.3.4.19	Met	
20	<b>IPv6 Requirements</b>			
	Product Requirements	Required	5.3.5.4	Not Met (See notes 36, 37.)
21	<b>NM Requirements</b>			
	LSC Management Function	Required (See note 2.)	5.3.2.7.2.6	Met
	VVoIP NMS Interface Requirements	Required	5.3.2.4.4	Met
	General Management requirements	Required	5.3.2.17.2	Met
	Requirement for FCAPS Management	Required	5.3.2.17.3	Partially Met (See notes 38, 39.)
	NM requirements of Appliance Functions	Required	5.3.2.18	Met
Accounting Management	Required	5.3.2.19	Met	

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**Table 3. SUT Capability Requirements and Functional Requirements Status (continued)**

CR/FR ID	Capability/Function	Applicability (See note 1.)	UCR Reference	Status
22	<b>Information Assurance</b>			
	Information Assurance Requirements	Required	5.4	Met (See note 40.)
<p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>The annotation of 'required' refers to a high-level requirement category. The applicability of each sub-requirement is provided in Enclosure 3.</li> <li>This requirement applies specifically to the integrated LSC and not to the WAN SS.</li> <li>During the original test, the SUT softphones did not support a distinct DSCP tag for each of the five precedence levels. Only one DSCP tag was supported for all precedence levels. This is a limitation of the operating system on the softphones (Microsoft Windows 7). This discrepancy was fixed and successfully tested with DTR 3, which included SP3. This requirement applies to the integrated LSC.</li> <li>During the original test, the SUT did not support a reminder ring notification with Call Forwarding Variable. This discrepancy was fixed and successfully tested with DTR 3, which included SP3.</li> <li>During the original test, when the SUT was in a call with the Cisco Unified Communications Manager 8.0(2), the SUT IP EIs did not release a call from hold and the call cannot be resumed. This discrepancy was fixed and successfully tested with DTR 3, which included SP3. This discrepancy applies to the integrated LSC.</li> <li>The SUT allows the preemption of a 911 caller and the 911 operator. DISA has accepted and approved the vendor's POA&amp;M and adjudicated this discrepancy as having a minor operational impact. This discrepancy applies to the integrated LSC.</li> <li>Testing with the Teo AEI was unable to be completed due to issues with TLS and therefore the SUT is not certified with non-proprietary AEIs. DISA adjudicated this as minor and changed this requirement to optional in UCR 2013. This discrepancy applies to the integrated LSC.</li> <li>During the original test, when the SUT failed over from the primary SESM to the secondary SESM, the SUT IP EI's configured to use IPv6 took approximately 10 to 15 minutes to register to the secondary SESM. After this time, the IP EI's did successfully register to the secondary SESM and gain full functionality. Also, the SUT IP EI's intermittently dropped active calls during the failover. This discrepancy was fixed and successfully tested with DTR 3, which included 1120E/1140E IP telephone Firmware Release 04.02.13.00 as part of SP3. This discrepancy applies to the integrated LSC.</li> <li>During the original test, the SUT did not fully support SS and LSC dual-homing failover requirements. DISA adjudicated this discrepancy and determined that the UCR failover requirements are immature and require a rewrite. Avaya, in coordination with DISA NS2, has agreed to participate in a multi-vendor interoperability test event to test failover mechanisms between LSCs and SSs in the timeframe determined by DISA NS2 in order to address this discrepancy. The SUT was unable to successfully demonstrate failover based on the new draft requirements. This discrepancy was fixed and successfully tested with DTR 5, which included SP6.</li> <li>The SUT IAD EI's (Audiocodes 112/124) do not provide PNT during preempt for reuse scenarios. DISA has accepted and approved the vendor's POA&amp;M and adjudicated this discrepancy as having a minor operational impact. This discrepancy applies to the integrated LSC.</li> <li>The vendor submitted LoC states the SUT does not support the ITU-T G.722.1 voice codec. DISA has accepted and approved the vendor's POA&amp;M and adjudicated this discrepancy as having a minor operational impact. This discrepancy applies to the integrated LSC.</li> <li>The SUT PEI's were tested and met audio performance requirements. This requirement applies to the integrated LSC.</li> <li>The SUT does not support the ITU-T V.150.1 protocol. DISA has accepted and approved the vendor's POA&amp;M and adjudicated this discrepancy as having a minor operational impact.</li> <li>The vendor cannot dynamically invoke ITU-T T.38 and ITU-T V.150.1 in accordance with UCR 2008, change 3, section 5.3.2.12.16. The vendor stated this is a limitation of the Audiocodes gateway and requires an update before this can be tested. DISA has accepted and approved the vendor's POA&amp;M and adjudicated this discrepancy as having a minor operational impact.</li> <li>The SUT video soft client does not support the H.263-2000 video codec. The SUT video soft client does support the H.263-1998 video codec. DISA has accepted and approved the vendor's POA&amp;M and adjudicated this discrepancy as having a minor operational impact.</li> <li>The SUT soft client does not display incoming video with Cisco C Series Codecs when using the H.264 codec. DISA has accepted and approved the vendor's POA&amp;M and adjudicated this discrepancy as having a minor operational impact. The SUT soft client is limited to fielding with the H.263-1998 video codec.</li> <li>This interface or capability is a conditional requirement for a WANN SS or LSC and was not tested.</li> <li>The SUT demonstrated video requirements via Softphone only, not PEIs (Proprietary Hard Video Phones) nor AEI video phones. The vendor did not provide a PEI or AEI video capability. This was previously adjudicated for another vendor by DISA to have a low operational impact because of the limited deployment of PEIs with video. This discrepancy applies to the integrated LSC.</li> <li>The SUT does not support an attendant console. DISA adjudicated this as minor and stated the intent to change this requirement to conditional in the next version of the UCR. Furthermore, the SUT meets all MLPP diversion requirements with an alternate DN in lieu of an attendant console in accordance with UCR 2008, Change 3, Section 5.3.2.2.1.2.5. This discrepancy applies to the integrated LSC.</li> <li>The SUT is not capable of preventing or detecting and stopping hair-pin routing loops over ANSI T1.619a and commercial PRI trunk groups between a legacy switch and an LSC. DISA has accepted and approved the vendor's POA&amp;M and adjudicated this discrepancy as having a minor operational impact. This discrepancy applies to the integrated LSC.</li> <li>This requirement applies specifically to the WAN SS and not to the integrated LSC.</li> <li>The SUT does not have an ITU-T H.323 gateway; therefore, this does not apply to the SUT.</li> </ol>				

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**Table 3. SUT Capability Requirements and Functional Requirements Status (continued)**

**NOTES (continued):**

23. The SUT allows AS-SIP sessions in a ringing state to fail when an internal failure occurs within the CCA. DISA adjudicated this as minor and deleted this requirement in UCR 2013.
24. During the original test, the AudioCodes M800 and M3K gateways did not allow a mix of PSTN/DSN trunk gateway configurations. Based on the vendor's POA&M from Release 2.0, the vendor stated this discrepancy would be fixed in AudioCodes version 6.02.054 and would be implemented in the AS 5300 Release 3 by 7 June 2012. However, Release 3 included AudioCodes version 6.02A.043.001 and not 6.02A.054. This discrepancy was fixed and successfully tested with DTR 3, which included AudioCodes Release 6.20A.055.001 as part of SP3. This discrepancy applies to the integrated LSC.
25. This requirement states that the appliance suppliers should support TDM trunk groups on their MG product that can interconnect with NEs in U.S. allied and coalition partner networks worldwide or foreign country PTT networks (OCONUS) worldwide. This requirement is for interconnection with a foreign country. The SUT is certified for use in the U.S., including CONUS, Alaska, Hawaii, and U.S. Caribbean and Pacific Territories. The E1 interface was not tested during the original test. During testing for DTR 3, the ITU-T Q.931 E1 interface was tested and met all requirements. This interface is certified for use in ETSI-compliant countries.
26. The SUT MGs do not support analog trunks. DISA adjudicated this as minor and deleted this requirement in UCR 2013. This discrepancy applies to the integrated LSC.
27. The SUT MGs allow AS-SIP sessions in ringing state to fail during internal failure in MG. DISA adjudicated this as minor and deleted this requirement in UCR 2013.
28. The SUT does not support domain directory. DISA has accepted and approved the vendor's POA&M and adjudicated this discrepancy as having a minor operational impact.
29. The vendor has an LDAP server which is covered under a separate Interoperability Certification listed on the UC APL; however, this LDAP feature was not tested with the Release 3.0. DISA stated the intent to remove this requirement from the UCR; therefore, this discrepancy is no longer applicable.
30. Precedence calls above ROUTINE from the Avaya Communication Manager (CM) 6.3 LSCs to an Internet Protocol (IP) End Instrument (EI) on the SUT receive a Blocked Precedence Announcement (BPA) and fail to complete. DISA has accepted and approved the vendor's POA&M and adjudicated this discrepancy as having a minor operational impact.
31. The SUT does not provide Precedence Notification Tone (PNT) to an IP EI preempted while in a ringing state. DISA has accepted and approved the vendor's POA&M and adjudicated this discrepancy as having a minor operational impact.
32. The SUT dial tone is not in line with required specifications. The SUT dial tone provided when there is a message waiting is a PNT instead of a standard dial tone. DISA has accepted and approved the vendor's POA&M and adjudicated this discrepancy as having a minor operational impact.
33. ASAC does not function on the SUT's AS5300 3.0 SP3 LSC with IPv6. This discrepancy was fixed and successfully tested with DTR 5, which included SP6.
34. The SUT only supports one way audio on hold interaction with IAD subscribers with Music on Hold (MoH). DISA has accepted and approved the vendor's POA&M and adjudicated this discrepancy as having a minor operational impact.
35. This requirement applies to gateways between AS-SIP and CCS7 links. Because CCS7 is a conditional requirement for WAN SSs and LSCs and not supported by the SUT, this requirement was not tested.
36. Per the vendor submitted LoC, the SUT does not properly support the following IPv6 requirements. The SUT does not support all DHCPv6 client messages and options. The SUT does not log all reconfigure events. The SUT SIP Core/Avaya Media Server does not allow disabling of duplicate address detection. DISA has accepted and approved the vendor's POA&M and adjudicated this discrepancy as having a minor operational impact.
37. The SUT is not fully compliant with following NM call detail records format requirements. The SUT does not provide a voice quality record at the completion of each voice session. DISA has accepted and approved the vendor's POA&M and adjudicated this discrepancy as having a minor operational impact. The SUT has the ability to send the records over a secure connection. However, the SUT does not have the ability to transfer records to a removable physical storage media. DISA adjudicated this as minor and deleted this requirement in UCR 2013.
38. The SUT is not capable of supporting IPv6 signaling. The SUT supports IPv4 signaling only, with dual stack IPv4/IPv6 media. The SUT does not allow IPv4 to be set to "None". Due to this, when IPv4 and IPv6 are enabled, the SUT mixes IPv4 and IPv6 addresses in all SIP messages (OPTIONS, INVITES, etc.), which causes TLS failures and call failures with the EBC fronting the SUT. DISA has accepted and approved the vendor's POA&M and adjudicated this discrepancy as having a minor operational impact.
39. Although the SUT supports destination code controls, the SUT does not play the correct announcement to the calling party IAW the reference. DISA has accepted and approved the vendor's POA&M and adjudicated this discrepancy as having a minor operational impact.
40. The IA requirements are tested by an IA test team and the results published in a separate report, Reference (g).

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**Table 3. SUT Capability Requirements and Functional Requirements Status (continued)**

<b>LEGEND:</b>			
AEI	AS-SIP End Instrument	LRDB	Local Routing Database
ANSI	American National Standards Institute	LSC	Local Session Controller
APL	Approved Products List	Mbps	Megabits per second
AS	Assured Services	MG	Media Gateway
ASAC	Assured Services Admission Control	MGC	Media Gateway Controller
AS-SIP	Assured Services Session Initiation Protocol	MLPP	Multi-Level Precedence and Preemption
BRI	Basic Rate Interface	MRDB	Master Routing Database
CAS	Channel Associated Signaling	NE	Network Element
CCA	Call Connection Agent	NM	Network Management
CCS7	Common Channel Signaling Number 7	NMS	Network Management System
CONUS	Continental United States	NS2	Network Services
CR	Capability Requirement	OCONUS	Outside the Continental United States
DB	database	PBAS	Precedence Based Assured Services
DHCPv6	Dynamic Host Control Protocol for IPv6	PEI	Proprietary End Instrument
DISA	Defense Information Systems Agency	PNT	Precedence Notification Tone
DN	Directory Number	POA&M	Plan of Action and Milestones
DSCP	Differentiated Services Code Point	PRI	Primary Rate Interface
DSN	Defense Switched Network	PSTN	Public Switched Telephone Network
DTR	Desktop Review	PTT	Push-to-Talk
E1	European Basic Multiplex Rate (2.048 Mbps)	RTS	Real Time Services
EBC	Edge Boundary Controller	SESM	Subscriber Edge Services Manager
EI	End Instrument	SG	Signaling Gateway
FCAPS	Fault, Configuration, Accounting, Performance and Security	SIP	Session Initiation Protocol
FR	Functional Requirement	SS	Softswitch
G.722.1	ITU-T audio codec standard	SS7	Signaling System 7
H.323	Standard for multi-media communications on packet-based networks	SUT	System Under Test
HR	Hybrid Routing	T1	Digital Transmission Link Level 1 (1.544 Mbps)
IA	Information Assurance	T1.619a	SS7 and ISDN MLPP Signaling Standard for T1
IAD	Integrated Access Device	T.38	Fax over IP
IAW	in accordance with	TBCT	Two B-channel Transfer
ID	Identification	TDM	Time Division Multiplexing
IP	Internet Protocol	TLS	Transport Layer Security
IPv6	Internet Protocol version 6	UC	Unified Capabilities
ISDN	Integrated Services Digital Network	UCR	Unified Capabilities Requirements
ITU-T	International Telecommunication Union - Telecommunication Standardization Sector	UFS	User Features and Services
IWF	Interworking Function	U.S.	United States
JITC	Joint Interoperability Test Command	V.150	Modem over Internet Protocol Networks
LDAP	Lightweight Directory Access Protocol	VoIP	Voice over Internet Protocol
LoC	Letter of Compliance	VVoIP	Voice and Video over Internet Protocol
		WAN	Wide Area Network
		WWNDP	Worldwide Numbering and Dialing Plan

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](mailto:disa.meade.ns.list.unified-capabilities-certification-office@mail.mil). All

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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 Capt Soamva Duong, DSN 879-5269, commercial (520) 538-5269, FAX DSN 879-4347, or e-mail [soamva.duong.fm@mail.mil](mailto:soamva.duong.fm@mail.mil). JITC's mailing address is P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The UCCO tracking number for the SUT is 1129301.

FOR THE COMMANDER:



Enclosure a/s

for RICHARD A. MEADOR  
Chief  
Battlespace Communications Portfolio

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DOT&E, Netcentric Systems and Naval Warfare  
Medical Health Systems, JMIS IV&V  
HQUSAISEC, AMSEL-IE-IS  
UCCO

## **ADDITIONAL REFERENCES**

- (c) Department of Defense Instruction 8100.04, "DoD Unified Capabilities (UC)," 9 December 2010
- (d) Office of the Assistant Secretary of Defense, "Department of Defense Unified Capabilities Requirements 2008, Change 3," September 2011
- (e) Joint Interoperability Test Command, "Unified Capabilities Test Plan (UCTP)," Draft
- (f) Joint Interoperability Test Command, Memo, JTE, "Special Interoperability Test Certification of the Avaya Aura<sup>®</sup> Application Server (AS) 5300 with Software Release 3.0 Wide Area Network (WAN) Softswitch (SS) with integrated Local Session Controller (LSC)," 27 September 2012
- (g) Joint Interoperability Test Command, "Information Assurance (IA) Assessment of Avaya Application Server (AS) 5300 Release (Rel.) 3.0 Wide Area Network (WAN) Soft Switch (SS) (Tracking Number 1129301)," Draft