



## DEFENSE INFORMATION SYSTEMS AGENCY

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

### MEMORANDUM FOR DISTRIBUTION

**3 Aug 11**

**SUBJECT:** Extension of the Special Interoperability Test Certification of the Avaya CS2100 XA-Core SE09.1 –Aura™ AS5300 Version 2.0 Multifunction Softswitch (MFSS) (with specified patch releases)

**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 the Joint Interoperability Test Command (JITC), as the responsible organization for interoperability test certification.
2. The Avaya CS2100 XA-Core SE09.1 - Aura™ AS5300 Version 2.0 MFSS (with specified patch releases), hereinafter referred to as the System Under Test (SUT) is certified for joint use in the Defense Information System Network (DISN) as an MFSS. The fielding of the SUT is limited to IP version 4 (IPv4) across the DISN based on the fielding environment and a Plan of Action and Milestones (PoAM) addressing critical IP version 6 (IPv6) discrepancies by 30 April 2011. The CS2100 provides only intra-enclave use of IPv4; the AS5300 provides intra-enclave IPv4 and IPv6. The certification status of the SUT will be verified during operational deployment. 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 PoAM, which will address all new critical TDRs within 120 days of identification. Testing was conducted using MFSS product requirements derived from References (c) and (d), and MFSS test procedures, derived from 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 three years from the date the SUT was posted on the Unified Capabilities (UC) Approved Products List (APL) (1 September 2010).
3. The extension of this certification is based upon Desktop Review (DTR) 12. The original certification is based on interoperability testing conducted by JITC, review of the vendor’s Letters of Compliance (LoC), and DISA Information Assurance (IA) Certification Authority (CA) approval of the IA configuration. Interoperability testing was conducted by JITC, Fort Huachuca, Arizona, from 29 June through 11 September 2009 and documented in Reference (f). Review of the vendor’s LoC was completed on 7 October 2010. The Verification and Validation (V&V) testing was completed 26 November 2010. The DISA CA has reviewed the IA Assessment Report for the SUT, Reference (g), and based on the findings in the report has

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provided a positive recommendation. The acquiring agency or site will be responsible for the DoD Information Assurance Certification and Accreditation Process (DIACAP) accreditation. The JITC certifies the SUT as meeting the UCR for MFSS requirements. This DTR was requested to update the SUT software with trial bulletin 12. Trial bulletin 12 update includes multiple IA and interoperability fixes with the major fixes noted below:

- Various Information Assurance security fixes
- Fix for an interoperability problem with Online Certificate Status Protocol (OCSP) and Delegated Trust Model (DTM).
- Fix for a problem with voicemail which required a reboot of the Media Access Server (MAS).
- Assured Services fixes with the 11xx IP end instruments which rebooted under certain call scenarios.
- Fix for transfer failing when a user's name has an apostrophe present.
- Fix for corrupted telephony routes if a backslash is used in the creation of a route.

All the IA and interoperability fixes in trial bulletin 12 were regression tested by JITC, Fort Huachuca, Arizona, from 6 June through 18 June 2011. There were no new IA findings during the regression test and therefore the original IA approval applies to this DTR. There were also no IO discrepancies found during regression testing and therefore JITC approves this DTR.

4. The interface, Capability Requirements (CR) and Functional Requirements (FR), and component status of the SUT is listed in Tables 1 and 2. The threshold Capability/Functional requirements for MFSSs are established by Sections 5.3.2, 5.3.4, 5.3.5, and 5.4 of Reference (c) and were used to evaluate the interoperability of the SUT.

**Table 1. SUT Interface Interoperability Status**

Interface	Critical	UCR Reference	Threshold CR/FR Requirements (See note 1.)	Status	Remarks (See note 2.)
<b>MFS CS2100 Line Interfaces</b>					
10Base-X	No	UCR 2008 Section 5.2	Refer to the Avaya MFS CS2100 XACORE with Release SE09.1 Special Interoperability Certification Letter and Test Summary Report Listed on the UC APL.	Certified	Refer to the Avaya MFS CS2100 XACORE with Release SE09.1 Special Interoperability Certification Letter and Test Summary Report Listed on the UC APL.
100Base-X	No			Certified	
1000Base-X	No			Not Tested	
2-wire analog	Yes			Certified	
2-Wire Digital Proprietary	No			Certified	
ISDN BRI U and ST	Yes			Certified	

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**Table 1. SUT Interface Interoperability Status (continued)**

Interface	Critical	UCR Reference	Threshold CR/FR Requirements (See note 1.)	Status	Remarks (See note 2.)
<b>MFS CS2100 External Interfaces</b>					
ISDN T1 PRI ANSI T1.619a	Yes	UCR 2008 Section 5.2	Refer to the Avaya MFS CS2100 XACORE with Release SE09.1 Special Interoperability Certification Letter and Test Summary Report Listed on the UC APL.	Certified	Refer to the Avaya MFS CS2100 XACORE with Release SE09.1 Special Interoperability Certification Letter and Test Summary Report Listed on the UC APL.
ISDN T1 PRI NI-2	Yes			Certified	
T1 CCS7 ANSI T1.619a	Yes			Certified	
E1 CCS7 ANSI T1.619a	No (See note 3.)			Certified	
T1 CAS (DTMF, DP, MFR1)	Yes			Certified	
E1 CAS (DTMF, MFR1)	No (See note 3.)			Certified	
E1 PRI ITU-T Q.955.3	Yes (See notes 3 & 4.)			Certified	
E1 PRI ITU-T Q.931	No (See notes 3 & 4.)			Certified	
SONET OC-3	No (See note 3.)			Certified	
<b>MFS CS2100 NM Interfaces</b>					
10Base-X	No (See notes 5 & 6.)	UCR 2008 Section 5.2	Refer to the Avaya MFS CS2100 XACORE with Release SE09.1 Special Interoperability Certification Letter and Test Summary Report Listed on the UC APL	Certified	Refer to the Avaya MFS CS2100 XACORE with Release SE09.1 Special Interoperability Certification Letter and Test Summary Report Listed on the UC APL.
100Base-X	No (See notes 5 & 6.)			Certified	
EIA-232 Serial	No (See note 6.)			Certified	
<b>AS5300 Line Interfaces</b>					
10Base-X	Yes	5.3.2.6.3	2, 4, 10, 13, 16	Certified	Met threshold CRs/FRs for IEEE 802.3i and 802.3j. Applies to PEIs (voice) and Softphones (voice and video).
100Base-X	Yes	5.3.2.6.3	2, 4, 10, 13, 16	Certified	Met threshold CRs/FRs for IEEE 802.3u. Applies to PEIs (voice) and Softphones (voice and video).
1000Base-X	No	5.3.2.6.3	2, 4, 10,13, 16	Not Tested	This interface is not offered by the SUT PEIs.
2-wire analog	Yes	5.3.2.6.1.6	2, 4, 10, 13,	Certified	Met threshold CRs/FRs for 2-wire analog instruments. Applies to 2-wire analog secure and non-secure analog instruments. Requirement met through use of an IAD that supports IEEE 802.3i, 802.3u, and 802.3ab.

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**Table 1. SUT Interface Interoperability Status (continued)**

Interface	Critical	UCR Reference	Threshold CR/FR Requirements (See note 1.)	Status	Remarks (See note 2.)
<b>AS5300 External Interfaces</b>					
10Base-X	No (See note 6.)	5.3.2.4.2	1, 2, 3, 6, 7, 8, 10, 11, 13, 15, 16	Certified	Met threshold CRs/FRs for IEEE 802.3i and 802.3j. Applies to AS-SIP trunk.
100Base-X	No (See note 6.)	5.3.2.4.2	1, 2, 3, 6, 7, 8, 10, 11, 13, 15, 16	Certified	Met threshold CRs/FRs for IEEE 802.3u. Applies to AS-SIP trunk.
1000Base-X	No (See note 6.)	5.3.2.4.2	1, 2, 3, 6, 7, 8, 10, 11, 13, 15, 16	Certified	Met threshold CRs/FRs for IEEE 802.3z and 802.3ab. Applies to AS-SIP trunk.
ISDN T1 PRI ANSI T1.619a	Yes	5.3.2.4.3	2, 3, 7, 8, 10, 13	Certified	Met threshold CRs/FRs. Provides legacy DSN and TELEPORT connectivity.
ISDN T1 PRI NI-2	Yes	5.3.2.4.3	2, 3, 7, 8, 10, 13	Certified	Met threshold CRs/FRs. Provides PSTN Connectivity.
<b>NM</b>					
10Base-X	No (See note 6.)	5.3.2.4.4 5.3.2.7.2.8	16, 17	Certified	Met threshold CRs/FRs. Verified via LoC.
100Base-X	No (See note 6.)	5.3.2.4.4 5.3.2.7.2.8	16, 17	Certified	Met threshold CRs/FRs. Verified via LoC.
<b>NOTES:</b>					
1. The CR/FR requirements are contained in Table 2. The CR/FR numbers represent a roll-up of UCR requirements. Reference (f), Enclosure 3 provides a list of more detailed requirements for MFSS products.					
2. Reference (f), Enclosure 2, Paragraph 11, provides detailed information pertaining to open TDRs and associated operational impacts.					
3. The interface is conditionally required for deployment in Europe.					
4. This interfaces is provided by an Avaya Meridian 1 Option 11C PBX 1, which is optionally required if the SUT is deployed in Europe.					
5. The IEEE 802.3u interface for NM is certified to ADIMSS only.					
6. The SUT must provide a minimum of one of the listed interfaces.					
<b>LEGEND:</b>					
ANSI	American National Standards Institute		ISDN	Integrated Services Digital Network	
ASD NII	Assistant Secretary of Defense for Networks and Information Integration		ITU-T	International Telecommunications Union – Telecommunication Standardization Sector	
BRI	Basic Rate Interface		LoC	Letter of Compliance	
CAS	Channel Associated Signaling		NI-2	National ISDN-2	
CCS7	Common Channel Signaling 7		NM	Network Management	
CR	Capability Requirement		PEI	Proprietary End Instrument	
E1	2048 Mbps European trunk standard		PRI	Primary Rate Interface	
FR	Functional Requirement		SUT	System Under Test	
IAD	Integrated Access Device		T1	1.544 Mbps North American trunk standard	
ID	Identification		TDR	Test Discrepancy Report	
IEEE	Institute of Electrical and Electronics Engineers		UCR	Unified capabilities Requirements	

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**Table 2. SUT Capability Requirements and Functional Requirements Status**

CR/FR ID	Capability/ Function	Applicability (See note 1.)	UCR Reference	Status	Remarks
1	<b>Assured Services Product Features and Capabilities</b>				
	DSCP Packet Marking	Required	5.3.2.2.1.4	Met	
	Voice Features and Capabilities	Required	5.3.2.2.2.1	Partially Met	See note 2.
	Public Safety Features	Required	5.3.2.2.2.2	Met	
	ASAC – Open Loop	Required	5.3.2.2.2.3	Met	
	Signaling Protocols	Required	5.3.2.2.3	Met	
2	<b>Registration, Authentication, and Failover</b>				
	Registration	Required	5.3.2.3.1	Met	
	Failover	Required	5.3.2.3.2	Met	
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	
4	Loss of Packets	Required (See note 3.)	5.3.2.5.4	Met	
	<b>Voice End Instruments</b>				
	Tones and Announcements	Required	5.3.2.6.1.1	Partially Met	See notes 2 and 4.
	Audio Codecs	Required	5.3.2.6.1.2	Partially Met	See note 4.
	VoIP PEI or AEI Audio Performance	Required	5.3.2.6.1.3	Partially Met	See note 4.
	VoIP Sampling Standard	Required	5.3.2.6.1.4	Partially Met	See note 4.
	Authentication to LSC	Required	5.3.2.6.1.5	Partially Met	See note 4.
	Analog Telephone Support	Required (See note 5.)	5.3.2.6.1.6	Partially Met	See notes 4 and 6.
5	<b>Video End Instruments</b>				
	Softphones	Conditional	5.3.2.6.1.7	Partially Met	See notes 4 and 7.
	ISDN BRI	Conditional	5.3.2.6.1.8	Not Tested	
	Video End Instrument	Required	5.3.2.6.2	Partially Met	See note 8.
6	Display Messages, Tones, and Announcements	Required	5.3.2.6.2.1	Partially Met	See note 8.
	Video Codecs (Including Associated Audio Codecs)	Required	5.3.2.6.2.2	Partially Met	See note 8.
	<b>MFSS Requirements</b>				
7	TDM Side EO and Tandem Requirements	Required	5.3.2.8.2.1	Met	See note 9.
	MFSS Signaling Interfaces	Required	5.3.2.8.2.3	Met	
	SG and MG Requirements for Interactions between the TDM and SS Side of the MFSS	Required	5.3.2.8.2.4	Met	
	Features of the SS Side of the MFSS	Required	5.3.2.8.2.6	Met	
	ASAC Requirements for the MFSS Related to Voice and Video	Required	5.3.2.8.2.7	Met	
7	<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	
	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	Met	See note 9.
CCA-IWF Support for PRI via MG	Required	5.3.2.9.5.3	Met		

**Table 2. SUT Capability Requirements and Functional Requirements Status (continued)**

CR/FR ID	Capability/ Function	Applicability (See note 1.)	UCR Reference	Status	Remarks
7	<b>Call Connection Agent Requirements (continued)</b>				
	CCA-IWF Support for CAS Trunks via MG	Conditional	5.3.2.9.5.4	Met	See note 9.
	CCA-IWF Support for PEI and AEI Signaling Protocols	Required	5.3.2.9.5.5	Partially Met	See note 10.
	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 3.
	CCA Interactions with Transport Interface Functions	Required	5.3.2.10.3	Met	
	CCA Interactions with the EBC	Required	5.3.2.10.4	Met	
	CCA Support for Admission Control	Required	5.3.2.10.5	Met	
	CCA Support for UFS	Required	5.3.2.10.6	Met	
	CCA Support for IA	Required	5.3.2.10.7	Met	
	CCA Interaction with EIs	Required	5.3.2.10.10	Partially Met	See notes 7 and 8.
	CCA Support for AS Voice and Video	Required	5.3.2.10.11	Partially Met	See notes 7 and 8.
	CCA Interactions with Service control Functions	Required	5.3.2.10.12	Met	
CCA Interworking between AS-SIP and SS7	Conditional	5.3.2.11	Met	See note 9.	
8	<b>MG Requirements</b>				
	Role of MG In MFSS	Required	5.3.2.12.3.2	Met	
	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	5.3.2.12.4.3	Met	
	MG Interactions with IP Transport Interface Functions	Required	5.3.2.12.4.4	Met	
	MG-EBC interactions	Required	5.3.2.12.4.5	Met	
	MG IP-Based PSTN Interface Requirements	Conditional	5.3.2.12.4.7	Not Tested	
	MG Interaction with EIs	Required	5.3.2.12.4.8	Met	Applies to analog EIs.
	MG support for User Features and Services	Required	5.3.2.12.4.9	Met	
	MG Interface to TDM	Required	5.3.2.12.5	Met	See note 9.
	MG Interface to TDM Allied and Coalition	Conditional	5.3.2.12.6	Not Tested	
	MG Interface to TDM PSTN in US	Required	5.3.2.12.7	Met	See note 9.
	MG Interfaces to TDM PSTN OCONUS	Required	5.3.2.12.8	Met	See note 9.
	MG Support for CCS7	Conditional	5.3.2.12.9	Met	See note 9.
	MG Support for ISDN PRI Trunks	Required	5.3.2.12.10	Met	
	MG Support for CAS Trunks	Conditional	5.3.2.12.11	Met	See note 9.
	MG requirements for VoIP Internal Interfaces	Required	5.3.2.12.12	Met	
	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 V.150.1	Required	5.3.2.12.16	Not Tested	See note 6.	
MG Preservation of Call Ringing during Failure	Required	5.3.2.12.17	Not Met	See note 3.	

**Table 2. SUT Capability Requirements and Functional Requirements Status (continued)**

CR/FR ID	Capability/ Function	Applicability (See note 1.)	UCR Reference	Status	Remarks
9	<b>SG Requirements</b>				
	SG and CCS7 network Interactions	Conditional	5.3.2.13.5.1	Not Tested	
	SG Interactions with CCA	Conditional	5.3.2.13.5.2	Not Tested	
	SG Interworking Functions	Conditional	5.3.2.13.5.3	Not Tested	
10	<b>WWNDP Requirements</b>				
	WWNDP	Required	5.3.2.16	Met	
	DSN WWNDP	Required	5.3.2.16.1	Met	
11	<b>Commercial Cost Avoidance</b>				
	Commercial Cost Avoidance	Required	5.3.2.23	Partially Met	See note 11.
12	<b>AS-SIP Based for External Devices (Voicemail, Unified Messaging, and Automated Receiving Devices)</b>				
	AS-SIP Requirements for External Interfaces	Conditional	5.3.2.24	Not Tested	
13	<b>Precedence Call Diversion</b>				
	Precedence Call Diversion	Required	5.3.2.25	Met	
14	<b>Attendant Station Features</b>				
	Precedence and Preemption	Required (See note 3.)	5.3.2.26.1	Met	
	Call Display	Required (See note 3.)	5.3.2.26.2	Met	
	Class of Service Override	Required (See note 3.)	5.3.2.26.3	Met	
	Busy Override and Busy Verification	Required (See note 3.)	5.3.2.26.4	Met	
	Night service	Required (See note 3.)	5.3.2.26.5	Met	
	Automatic Recall of Attendant	Required (See note 3.)	5.3.2.26.6	Met	
	Calls in Queue to the Attendant	Required (See note 3.)	5.3.2.26.7	Met	
15	<b>AS-SIP Requirements</b>				
	SIP Requirements for AS-SIP Signaling Appliances and AS-SIP EIs	Required (See note 3.)	5.3.4.7	Not Tested	See note 4.
	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	
	Video Telephony – General Rules	Required	5.3.4.12	Partially Met	See note 8.
	Calling Services	Required	5.3.4.13	Met	
	SIP Translation Requirements for Inter-working AS-SIP Signaling Appliances	Required	5.3.4.14	Partially Met	
	Relevant Timers for the Terminating Gateway and the Originating Gateway	Required	5.3.4.15	Met	
	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		

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**Table 2. SUT Capability Requirements and Functional Requirements Status (continued)**

CR/FR ID	Capability/ Function	Applicability (See note 1.)	UCR Reference	Status	Remarks
16	<b>IPv6 Requirements</b>				
	Product Requirements	Required	5.3.5.4	Partially Met	See note 11.
17	<b>NM</b>				
	Network Management Requirements for the MFSS	Required	5.3.2.8.3	Partially Met	See note 12.
	VVoIP NMS Interface Requirements	Required	5.3.2.4.4	Partially Met	See note 12.
	General Management requirements	Required	5.3.2.17.2	Partially Met	See note 12.
	Requirement for FCAPS Management	Required	5.3.2.17.3	Partially Met	See notes 12. and 13.
	NM requirements of Appliance Functions	Required	5.3.2.18	Partially Met	See note 12.
	Accounting Management	Required	5.3.2.19	Partially Met	See note 12.
<b>NOTES:</b>					
1. The annotation of 'required' refers to the high-level requirement category. The applicability of each sub-requirement is provided in Reference (f), Enclosure 3.					
2. The SUT had outstanding open TDRs at the completion of testing, which were adjudicated by DISA to have a minor operational impact. The vendor has submitted a PoAM to address the open TDRs. Reference (f), Enclosure 2, Paragraph 11, provides additional details.					
3. This requirement represents a new UCR requirement and the vendor has 18-months (until July 2011) to comply.					
4. The SUT met the requirement for PEIs; SUT was not tested with generic AEI requirements because no AEI was provided. AEIs are a new UCR 2008, Change 1, requirement and the vendor has 18-months (until July 2011) to comply.					
5. The UCR 2008, Change 1, added V.150.1 IAD support. Since this is a new requirement, the vendor has 18 months (until July 2011) to comply.					
6. The vendor did not demonstrate V.150.1 support. Since this is a new requirement, the vendor has 18 months (until July 2011) to comply.					
7. The SUT met both voice and video requirements via Softphone.					
8. The SUT demonstrated video requirements via Softphone only, not PEIs (Proprietary Hard Video Phones). The vendor did not provide a PEI video capability. This was adjudicated by DISA to have a minor operational impact because of the limited deployment of PEIs with video.					
9. This capability was provided by the MFS (CS2100) portion of the SUT.					
10. The SUT met PEI CCA-IWF requirements. The AEI CCA-IWF requirements were not tested. Since these are new requirements, the vendor has 18 months (until July 2011) to comply.					
11. The vendor submitted an IPv6 LoC with noted discrepancies, which include the interface for Commercial Cost Avoidance functionality. The open TDRs were adjudicated by DISA to have a minor operational impact with a vendor submitted PoAM.					
12. The vendor submitted a NM LoC with noted discrepancies. The open TDRs were adjudicated by DISA to have a minor operational impact with a vendor submitted PoAM.					
13. The SUT does not support destination code controls. This was adjudicated by DISA to have a minor operational impact because of the limited deployment of users.					

**Table 2. SUT Capability Requirements and Functional Requirements Status (continued)**

<b>LEGEND:</b>			
AEI	AS-SIP End Instrument	MFSS	Multifunction Softswitch
AS	Assured Services	MG	Media Gateway
ASAC	Assured Services Admission Control	MGC	Media Gateway Controller
AS-SIP	Assured Services Session Initiation Protocol	NM	Network Management
BRI	Basic Rate Interface	NMS	Network Management System
CAS	Channel Associated Signaling	OCONUS	Outside the Continental United States
CCA	Call Connection Agent	PBAS	Precedence-Based Assured Service
CCS7	Common Channel Signaling 7	PEI	Proprietary End Instrument
CR	Capabilities Requirement	PoAM	Plan of Actions and Milestones
DSCP	Differentiated Services Code Point	PRI	Primary Rate Interface
DSN	Defense Switched Network	PSTN	Public Switch Telephone Network
EBC	Edge Boundary Controller	SG	Signaling Gateway
EI	End Instrument	SIP	Session Initiation Protocol
FCAPS	Fault, Configuration, Accounting, Performance, and Security	SS7	Signaling System Number 7
FR	Functional Requirement	SUT	System Under Test
IA	Information Assurance	T1	1,544 Mbps North American trunk standard
IAD	Integrated Access Device	TDM	Time Division Multiplexing
ID	Identification	TDR	Test Discrepancy Report
IP	Internet Protocol	UCR	Unified Capabilities Requirements
IPv6	Internet Protocol version 6	UFS	User Features and Services
ISDN	Integrated Services Digital Network	VoIP	Voice over Internet Protocol
IWF	Interworking Function	VVoIP	Voice and Video over Internet Protocol
LoC	Letter of Compliance	WAN	Wide Area Network
		WWNDP	World Wide Numbering and Dialing Plan

5. No detailed test report was developed in accordance with the Program Manager’s request. JITC distributes interoperability information via the JITC Electronic Report Distribution (ERD) 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 (STP). The STP is accessible by .mil/gov users 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 (JIT) at <https://jit.fhu.disa.mil> (NIPRNet). Information related to DSN testing is on the Telecom Switched Services Interoperability (TSSI) website at <http://jitc.fhu.disa.mil/tssi>. 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 through government civilian or uniformed military personnel from the Unified Capabilities Certification Office (UCCO), e-mail: [ucco@disa.mil](mailto:ucco@disa.mil).

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6. The JITC point of contact is Capt Stephane Arsenault, JITC, commercial (520) 538-5269 or DSN 312-879-5269; e-mail address is [Stephane.Arsenault@disa.mil](mailto:Stephane.Arsenault@disa.mil). The JITC's mailing address is P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The UCCO tracking number is 0903501.

FOR THE COMMANDER:

Enclosure a/s

  
for BRADLEY A. CLARK  
Chief  
Battlespace Communications Portfolio

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Defense Information Systems Agency, GS23

## ADDITIONAL REFERENCES

- (c) Office of the Assistant Secretary of Defense, “Department of Defense Unified Capabilities Requirements 2008, Change 1,” 22 January 2010
- (d) Office of the Assistant Secretary of Defense, “Department of Defense Unified Capabilities Requirements 2008, Section 5.2,” 22 January 2009
- (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 CS2100 XA-Core SE09.1 –Aura™ AS5300 Version 2.0 Multifunction Softswitch (MFSS) (with specified patch releases),” 29 December 2010
- (g) Joint Interoperability Test Command, “Information Assurance (IA) Assessment of Avaya Aura™ CS2100 XA-Core SE09.1 w/AS5300 Version 2.0 MFSS (TN 0903501),” 25 March 2011

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