



## DEFENSE INFORMATION SYSTEMS AGENCY

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

**13 Dec 11**

### MEMORANDUM FOR DISTRIBUTION

**SUBJECT:** Extension of the Special Interoperability Test Certification of the Avaya Aura S8800 and Hewlett Packard (HP) DL-360 G7 with Release (Rel.) Communication Manager (CM) 6.0.1 (00.1.510.1 Service Pack 19211).

**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 (i), 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 Aura S8800 and HP DL-360 G7 with Release (Rel.) Communication Manager (CM) 6.0.1 (00.1.510.1 Service Pack 19130), hereinafter referred to as the System Under Test (SUT), meets all the critical interoperability requirements for Local Session Controller (LSC) and is certified for joint use within the Defense Information System Network (DISN). The Defense Information Systems Agency (DISA) adjudicated that Test Discrepancy Reports (TDRs) open at the completion of testing were determined to have a minor operational impact. The operational impact of noted discrepancies was based on the SUT's conditions of fielding during the initial transition from legacy to Internet Protocol (IP) based communications. The fielding of the SUT is limited to IP version 4 (IPv4) only across the DISN. The SUT is certified for joint use with dual stack IPv6 intra-enclave. The SUT has also been tested as a Small End Office (SMEO) switch, and met the critical interoperability requirements for a SMEO. The SUT was tested with the Avaya S8800 Core server. JITC analysis determined that the Hewlett Packard DL-360 G7 server is exactly the same as the S8800 Core server with the exception of a faster central processing unit and; therefore, it is also interoperability certified for joint 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 Action & Milestones (POA&M), which will address all new critical TDRs within 120 days of identification. Testing was conducted using LSC product requirements derived from the Unified Capabilities Requirements (UCR), Reference (c) and (d), and LSC test procedures, Reference (f). SMEO product requirements were derived from UCR References (e) and (f) and SMEO test procedures derived from Reference (f) and (i). 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 20 April 2011; which is the date the DISA Certifying Authority (CA) provided a positive Recommendation.

3. The extension of this certification is based upon Desktop Review (DTR) 7. The original certification is based on interoperability (IO) testing conducted by JITC, Fort Huachuca, Arizona, from 2 August through 17 September 2010. This finding 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 IA configuration. Review of the vendor's LoC was completed on 8 March 2011. DISA adjudication of outstanding TDRs was completed on 21 April 2011. Verification & Validation (V&V) testing was conducted from 4 July through 8 July 2011 to fix open test discrepancies. The DISA CA has reviewed the IA Assessment Report for the SUT, Reference (h), and based on the findings in the report has provided a positive recommendation. The acquiring agency or site will be responsible for the Department of Defense (DoD) Information Assurance Certification and Accreditation Process (DIACAP) accreditation. This DTR was requested to test new firmware, version 31.20.0 on the G450 Gateway, and to retest the MM721 ISDN BRI card. JITC determined V&V testing was required prior to DTR approval. The SUT updates associated with this DTR were V&V tested for IA and IO with the SUT from 28 November through 2 December 2011. Based on IO V&V testing of the MM721 ISDN BRI card in conjunction with the new G450 Gateway firmware, the SUT met all of the critical IO ISDN BRI interface requirements in accordance with References (c) and (d) and with National ISDN-2 (NI2) protocol and, therefore, JITC approves this DTR. The IA posture has not changed. The original IA approval applies to this DTR.

4. The interface, Capability Requirements (CR) and Functional Requirements (FR), and component status of the SUT are listed in Tables 1 and 2. The threshold CR/FR for LSCs and SMEOs, with the exception of SMEO Network Management requirements which are found in UCR 2008, Section 5.2.8, 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 <sup>1</sup>	Status	Remarks <sup>2</sup>
<b>Line Interfaces</b>					
10Base-X	Yes	5.3.2.6.3	1, 2, 3, 4, 10, 13, and 16	Certified	SUT met threshold CRs/FRs for IEEE 802.3i and 802.3j. Applies to PEIs (voice) and Softphone (voice).
100Base-X	Yes	5.3.2.6.3	1, 2, 3, 4, 10, 13, and 16	Certified	SUT met threshold CRs/FRs for IEEE 802.3u with the SUT PEIs.
1000Base-X	No	5.3.2.6.3	1, 2, 3, 4, 10,13, and 16	Not Tested	This interface is not offered by the SUT PEIs.
2-wire analog	Yes	5.3.2.6.1.6	1, 2, 3, 4, 10, and 13	Certified	SUT met threshold CRs/FRs for 2-wire analog interfaces.
ISDN BRI <sup>3</sup>	No	5.3.2.6.1.8	1, 2, 3, 4, 10, and 13	Certified	SUT met threshold CRs/FRs for BRI interface with the.
Digital Proprietary	No	5.2	1, 2, 3, 4, 10, and 13	Certified	SUT met threshold CRs/FRs for Digital Proprietary interface.
<b>External Interfaces</b>					
10Base-X	No	5.3.2.4.2	1, 2, 3, 6, 7, 8, 10, 11, 13, 15, and 16	Certified	Met threshold CRs/FRs for IEEE 802.3i and 802.3j for the AS-SIP trunk.
100Base-X	No	5.3.2.4.2	1, 2, 3, 6, 7, 8, 10, 11, 13, 15, and 16	Certified	Met threshold CRs/FRs for IEEE 802.3u for the AS-SIP trunk.
1000Base-X	No	5.3.2.4.2	1, 2, 3, 6, 7, 8, 10, 11, 13, 15, and 16	Not Tested	This interface is not offered by the SUT.

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

Interface	Critical	UCR Reference	Threshold CR/FR <sup>1</sup>	Status	Remarks <sup>2</sup>
<b>External Interfaces (continued)</b>					
ISDN T1 PRI ANSI T1.619a	Yes	5.3.2.4.3	2, 3, 7, 8, 10, and 13	Certified	Met threshold CRs/FRs. This interface provides legacy DSN and TELEPORT connectivity.
ISDN T1 PRI NI-2	Yes	5.3.2.4.3	2, 3, 7, 8, 10, and 13	Certified	Met threshold CRs/FRs. This interface provides PSTN connectivity.
T1 CCS7 ANSI T1.619a	No	5.3.2.12.9	2, 3, 7, 8, 10, and 13	Not Tested	This interface is not offered by the SUT.
T1 CAS (DTMF <sup>3</sup> , MFR1)	No	5.3.2.12.11	2, 3, 7, 8, 10, and 13	Certified	Met threshold CRs/FRs. This interface provides legacy DSN and TELEPORT connectivity with DTMF (Standard, ABCD) and Multifrequency R1 digit formats.
E1 CAS	No (LSC), Yes (SMEO)	5.3.2.12.11	2, 3, 7, 8, 10, and 13	Certified	Met threshold CRs/FRs and met interface criteria for T1 CAS with MLPP.
E1 PRI <sup>4</sup> ITU-T Q.955.3	No	5.3.2.12.10	2, 3, 7, 8, 10, and 13	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 an LSC.
E1 PRI <sup>4</sup> ITU-T Q.931	No	5.3.2.12.10	2, 3, 7, 8, 10, and 13	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 an LSC.
<b>Network Management Interfaces</b>					
10Base-X	No <sup>5</sup>	5.3.2.4.4 5.3.2.7.2.8	16, 17, and 18 <sup>6</sup>	Certified	Met threshold CRs/FRs. Verified via LoC.
100Base-X	No <sup>5</sup>	5.3.2.4.4 5.3.2.7.2.8	16, 17, and 18 <sup>6</sup>	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 2. These high-level CR/FR requirements refer to a detailed list of requirements provided in Enclosure 3 of the original certification.					
2. Detailed information pertaining to open TDRs and associated operational impacts is in Enclosure 2 of the original certification, paragraph 11.					
3. This interface is required only for a SMEO.					
4. This interface is required for only for Europe deployment.					
5. The SUT must provide a minimum of one of the following NM interfaces: 10Base-X or 100Base-X.					
6. These NM CRs and FRs are required only for SMEO.					

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

<b>LEGEND:</b>			
10Base-X	10 Mbps Ethernet	ITU-T	International Telecommunication Union – Telecommunication Standardization Sector
100Base-X	100 Mbps Ethernet	JITC	Joint Interoperability Test Command
1000Base-X	1000 Mbps Ethernet	LoC	Letter of Compliance
802.3i	10 Mbps twisted pair media for 10Base-X networks	LSC	Local Session Controller
802.3j	10 Mbps fiber media for 10Base-X networks	Mbps	Megabits per second
802.3u	100BASE-TX, 100BASE-T4, 100BASE-FX Fast Ethernet at 100 Mbps with auto negotiation	MLPP	Multi-Level Precedence and Preemption
ANSI	American National Standards Institute	NI-2	National ISDN Standard 2
AS-SIP	Assured Services Session Initiation Protocol	NM	Network Management
BRI	Basic Rate Interface	PEI	Proprietary End Instrument
CAS	Channel Associated Signaling	PRI	Primary Rate Interface
CCS7	Common Channel Signaling 7	PSTN	Public Switched Telephone Network
CR	Capability Requirement	Q.931	Signaling Standard for ISDN
DSN	Defense Switched Network	Q.955.3	ISDN Signaling Standard for E1 MLPP
DTMF	Dual Tone Multi-Frequency	SMEO	Small End Office
E1	European Basic Multiplex Rate (2.048 Mbps)	SS7	Signaling System 7
FR	Functional Requirement	SUT	System Under Test
IAD	Integrated Access Device	T1	Digital Transmission Link Level 1 (1.544 Mbps)
ID	Identification	T1.619a	SS7 and ISDN MLPP Signaling Standard for T1
IEEE	Institute of Electrical and Electronics Engineers	TDR	Test Discrepancy Report
ISDN	Integrated Services Digital Network	UCR	Unified Capabilities Requirements

**Table 2. SUT CR and FR Status**

CR/FR ID	Capability/ Function	Applicability <sup>1</sup>	UCR Reference	Status	Remarks
<b>1</b>	<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	Met	
	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	5.3.2.2.2.3	Met	
<b>2</b>	<b>Registration, Authentication, and Failover</b>				
	Registration	Required	5.3.2.3.1	Met	
	Failover	Required	5.3.2.3.2	Met	
<b>3</b>	<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	5.3.2.5.4	Met	

**Table 2. SUT CR and FR Status (continued)**

CR/FR ID	Capability/ Function	Applicability <sup>1</sup>	UCR Reference	Status	Remarks
4	<b>Voice End Instruments</b>				
	Tones and Announcements	Required	5.3.2.6.1.1	Met	
	Audio Codecs	Conditional <sup>2</sup>	5.3.2.6.1.2	Partially Met <sup>2</sup>	
	VoIP PEI or AEI Audio Performance Requirements	Required	5.3.2.6.1.3	Met <sup>3</sup>	
	VoIP Sampling Standard	Required	5.3.2.6.1.4	Met	
	Authentication to LSC	Required	5.3.2.6.1.5	Met	
	Analog Telephone Support	Required	5.3.2.6.1.6	Met	
	Softphones	Conditional	5.3.2.6.1.7	Met	
	ISDN BRI	Conditional	5.3.2.6.1.8	Met	
5	<b>Video End Instruments</b>				
	Video End Instrument	Required	5.3.2.6.2	Not Tested <sup>4</sup>	
	Display Messages, Tones, and Announcements	Required	5.3.2.6.2.1	Not Tested <sup>4</sup>	
	Video Codecs (Including Associated Audio Codecs)	Required	5.3.2.6.2.2	Not Tested <sup>4</sup>	
6	<b>LSC Requirements</b>				
	PBAS/ASAC Requirements	Required	5.3.2.7.2.1	Met	
	Calling Number Delivery Requirements	Required	5.3.2.7.2.2	Met	
	LSC Signaling Requirements	Required	5.3.2.7.2.3	Met	
	Service Requirements under Total Loss of WAN Transport	Required	5.3.2.7.2.4	Met	
	Local Location Server and Directory	Required	5.3.2.7.2.5	Met	
	LSC Transport Interface Functions	Required	5.3.2.7.2.7	Met	
	LSC to PEI, AEI, and Operator Console Status Verification	Required	5.3.2.7.2.10	Partially Met <sup>5</sup>	
Line-Side Custom Features Interference	Conditional	5.3.2.7.2.11	Met		
	Loop Avoidance	Required	5.3.2.7.3	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 <sup>6</sup>	
	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 <sup>6</sup>	
	CCA-IWF Support for PRI via MG	Required	5.3.2.9.5.3	Met	

**Table 2. SUT CR and FR Status (continued)**

CR/FR ID	Capability/ Function	Applicability <sup>1</sup>	UCR Reference	Status	Remarks
<b>Call Connection Agent Requirements (continued)</b>					
7	CCA-IWF Support for CAS Trunks via MG	Conditional	5.3.2.9.5.4	Partially Met <sup>7</sup>	
	CCA-IWF Support for PEI and AEI Signaling Protocols	Required	5.3.2.9.5.5	Met <sup>3</sup>	
	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	Met	
	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	IA is covered under separate report.
	CCA Interaction with EIs	Required	5.3.2.10.10	Partially Met <sup>3</sup>	
	CCA Support for AS Voice and Video	Required	5.3.2.10.11	Partially Met <sup>4</sup>	
	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	Not Tested <sup>6</sup>	
<b>MG Requirements</b>					
8	Role of MG In LSC	Required	5.3.2.12.3.1	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	IA is covered under separate report.
	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 <sup>6</sup>	
	MG Interaction with EIs	Required	5.3.2.12.4.8	Met	
	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	
	MG Interface to TDM Allied and Coalition	Conditional	5.3.2.12.6	Not Tested <sup>6</sup>	
	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 Met <sup>8</sup>	
	MG Support for CCS7	Conditional	5.3.2.12.9	Not Tested <sup>6</sup>	
MG Support for ISDN PRI Trunks	Required	5.3.2.12.10	Met		

**Table 2. SUT CR and FR Status (continued)**

CR/FR ID	Capability/ Function	Applicability <sup>1</sup>	UCR Reference	Status	Remarks
8	<b>MG Requirements (continued)</b>				
	MG Support for CAS Trunks	Required	5.3.2.12.11	Partially Met <sup>7</sup>	
	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 ITU-T V.150.1	Required	5.3.2.12.16	Not Met <sup>9</sup>	
	MG Preservation of Call Ringing during Failure	Required	5.3.2.12.17	Met	
9	<b>SG Requirements</b>				
	SG and CCS7 Network Interactions	Conditional	5.3.2.13.5.1	Not Tested <sup>7</sup>	
	SG Interactions with CCA	Conditional	5.3.2.13.5.2	Not Tested <sup>7</sup>	
	SG Interworking Functions	Conditional	5.3.2.13.5.3	Not Tested <sup>7</sup>	
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	Not Met <sup>10</sup>	
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	Met <sup>11</sup>	
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	5.3.2.26.1	Met	
	Call Display	Required	5.3.2.26.2	Met	
	Class of Service Override	Required	5.3.2.26.3	Met	
	Busy Override and Busy Verification	Required	5.3.2.26.4	Met	
	Night service	Required	5.3.2.26.5	Met	
	Automatic Recall of Attendant	Required	5.3.2.26.6	Met	
	Calls in Queue to the Attendant	Required	5.3.2.26.7	Met	
15	<b>AS-SIP Requirements</b>				
	SIP Requirements for AS-SIP Signaling Appliances and AS-SIP EIs	Required	5.3.4.7	Met	
	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	Not Met <sup>4</sup>	
	Calling Services	Required	5.3.4.13	Partially Met <sup>12</sup>	
	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	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	Partially Met <sup>12</sup>	

**Table 2. SUT CR and FR 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	Met	G450 supports IPv4/v6 dual stack. G650 supports IPv4 only.
17	<b>NM Requirements (LSC)</b>				
	LSC Management Function	Required	5.3.2.7.2.6	Met	
	VoIP 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 <sup>13</sup>	
	NM requirements of Appliance Functions	Required	5.3.2.18	Met	
18	<b>NM Requirements (SMEO)</b>				
	Physical Interface to ADIMSS	Required	5.2.8.1	Met	SUT requirement was met with an IEEE 8.02.3u Ethernet Interface.
	Measurements and Data Generation	Required	5.2.8.2	Met	
	Fault Management	Required	5.2.8.3	Met	
	Configuration Management	Required	5.2.8.4	Met	
	Automated Message Accounting	Required	5.2.8.5	Met	
	Performance Management	Required	5.2.8.6	Met	

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**Table 2. SUT CR and FR Status (continued)**

**NOTES:**

1. The annotation of 'required' refers to a high-level requirement category. The applicability of each sub-requirement is provided in Enclosure 3 of the original certification.
2. The SUT Media Gateway and CCA do not support the ITU-T G.723.1 codec. This requirement was changed in UCR 2008 change 2 from required to conditional with an immediate applicability.
3. The SUT met the requirement for ITU-T H.323 PEIs, but did not meet requirements for an AEI because none were provided. The SUT was tested to UCR 2008 change 1 requirements and since the AEI requirements are new, vendor has 18 months to comply (July 2011).
4. The SUT supports Legacy H.320 video with ISDN PRI and BRI interfaces; however, it does not support IP video PEI or AEI EIs. This was adjudicated by DISA to have a minor operational impact because of the limited deployment of IP video.
5. The SUT LSC to PEI, AEI and Operator Console Status Verification do not support a default set of 5 minutes. The SUT default is 20 every 20 seconds but is configurable up to 2 hours. This was adjudicated by DISA as having a minor operational impact with the recommendation to change this requirement to remove the default value as long as it is configurable.
6. The SUT met the IWF requirements with the T1 PRI interfaces and T1/E1 CAS. The SUT does not support SS7 or IP based PSTN interfaces which are not required for an LSC.
7. The SUT met all critical T1 CAS interface requirements with the following exceptions adjudicated by DISA as having a minor operational impact with no POA&M to fix it:
  - The SUT acknowledges a wink start signal greater than 350 ms. The SUT recognizes wink start signals up to 395 ms.
  - The SUT preempt signal is out of tolerance. The SUT generates a preempt signal from 336 to 339 ms. The requirement is 340 to 350 ms. Since all switches acknowledge the preempt signal from 328 to 363 ms there is no impact.
8. The SUT offers an E1 ETSI ISDN PRI interface however it was not tested and is not covered under this certification. The E1 ETSI ISDN PRI interface is required only for deployment in Europe. The SUT does support the conditional E1 CAS interface for Europe, and therefore the SUT is not certified for deployment in Europe.
9. The vendor submitted a LoC stating that the SUT does not support ITU-T V.150.1 Vendor submitted a POA&M and plans to support this feature in the next major CM release for July 2012. ITU-T V.150.1 is a new UCR 2008 change 1 requirement and the vendor has 18 months (July 2011) to comply.
10. The SUT do not support Commercial Cost Avoidance with the DISN RTS Routing Database or LDAP Version 3 messages for a Database Query. This is a new UCR 2008 change 1 requirement and the vendor has 18 months (July 2011) to comply. Vendor submitted a POA&M stating plans to support this feature in the next major CM release for May 2012; however DISA stipulated that they would need to see the vendor comply by September 2011.
11. The SUT met this requirement with the Communication Manager Messaging Voice Mail System which is listed separately on the UC APL.
12. The SUT met the UCR Supplementary Services and Calling Services Requirements with the following exceptions adjudicated by DISA as having a minor operational impact with a Vendor POA&M to fix in next major CM release for July 2012:
  - Call Forwarded calls above ROUTINE ring the destination at ROUTINE cadence although the precedence level is maintained.
  - Unattended Call Transfers to the Avaya AS5300 @ precedence above ROUTINE are class marked at ROUTINE.
  - Instruments assigned the Hotline Feature cannot restrict other features (i.e. Hold, Transfer, Add hock Conferencing, etc.)
  - SUT plays Precedence Notification Tone (PNT) to an active user for only 3 seconds. The requirement is indefinite or until user hangs up.
13. The SUT met the NM requirements in accordance with UCR 2008 Change 1 Section 5.3.2.17.3 with the following exception: The SUT does not have the ability to limit calls to a destination based on percentage of calls based on vendors LoC. This discrepancy was adjudicated by DISA as having a minor operational impact with a vendor POA&M to fix in May 2012.
14. The SUT met the NM requirements in accordance with UCR 2008 Change 1 Section 5.3.2.19 with the following exceptions stipulated in the vendor's LoC which were adjudicated by DISA as having a minor operational impact with a vendor POA&M to fix in May 2012.
  - Does Not Comply with E-Model MOS in the Call Detail Record (CDR) Requirements
  - Does Not Support the Equipment Impairment Factor (Ie) and the TCLw.
  - Does Not Generate Alarms to the VVoIP EMS when E-Model R-factor record in CDR is not met.
  - Does not provide a CDR with the R-Factor and associated raw statistics

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**Table 2. SUT CR and FR Status (continued)**

<b>LEGEND:</b>			
ADIMSS	Advanced Defense Switched Network Integrated Management Support System	LoC	Letter of Compliance
AEI	AS-SIP End Instrument	LSC	Local Session Controller
AS	Assured Services	Mbps	Megabits per second
ASAC	Assured Services Admission Control	MG	Media Gateway
AS-SIP	Assured Services Session Initiation Protocol	MGC	Media Gateway Controller
BRI	Basic Rate Interface	NM	Network Management
CAS	Channel Associated Signaling	NMS	Network Management System
CCA	Call Connection Agent	OCONUS	Outside the Continental United States
CR	Capability Requirement	PBAS	Precedence Based Assured Services
CCS7	Common Channel Signaling	PCM	Pulse Code Modulation
DISA	Defense Information Systems Agency	PEI	Proprietary End Instrument
DSCP	Differentiated Services Code Point	POA&M	Plan of Action and Milestones
DSN	Defense Switched Network	PRI	Primary Rate Interface
EBC	Edge Boundary Controller	PSTN	Public Switched Telephone Network
EI	End Instrument	SG	Signaling Gateway
FCAPS	Fault, Configuration, Accounting, Performance and Security	SIP	Session Initiation Protocol
FR	Functional Requirement	SNMPv3	Simple Network Management Protocol version 3
G.711	PCM of voice frequencies	SS7	Signaling System 7
IA	Information Assurance	SUT	System Under Test
IP	Internet Protocol	T1	Digital Transmission Link Level 1 (1.544 Mbps)
ID	Identification	TDM	Time Division Multiplexing
ISDN	Integrated Services Digital Network	UCR	Unified Capabilities Requirements
IP	Internet Protocol	UFS	User Features and Services
IPv4	Internet Protocol version 4	U.S.	United States
IPv6	Internet Protocol version 6	V.150	Modem over Internet Protocol Networks
ITU-T	International Telecommunication Union - Telecommunication Standardization Sector	VoIP	Voice over Internet Protocol
IWF	Interworking Function	VVoIP	Voice and Video over Internet Protocol
kbps	kilobits per second	WAN	Wide Area Network
		WWNDP	Worldwide 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 <http://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 Stéphane Arsenault, DSN 879-5269, commercial (520) 538-5269, FAX DSN 879-4347, or e-mail to stephane.arsenault@disa.mil. The JITC's mailing address is P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The tracking number for the SUT as an LSC is 1009101 and as a SMEO is 1020101.

FOR THE COMMANDER:

Enclosure a/s

  
for BRADLEY A. CLARK  
Chief  
Battlespace Communications Portfolio

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DOT&E, Net-Centric Systems and Naval Warfare

U.S. Coast Guard, CG-64

Defense Intelligence Agency

National Security Agency, DT

Defense Information Systems Agency, TEMC

Office of Assistant Secretary of Defense (NII)/DOD CIO

U.S. Joint Forces Command, Net-Centric Integration, Communication, and Capabilities Division, J68

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, Change 2,” 31 December 2010
- (e) Office of the Assistant Secretary of Defense, “Department of Defense Unified Capabilities Requirements 2008,” 31 December 2008
- (f) Joint Interoperability Test Command, “Unified Capabilities Test Plan (UCTP),”
- (g) Joint Interoperability Test Command, “Information Assurance (IA) Assessment of Avaya S8800 and Hewlett Packard (HP) DL-360 G7 Local Session Controller (LSC) with Aura Communication Manager (CM) Release (Rel.) 6.0.1 (Tracking Number 1009101),”
- (h) Joint Interoperability Test Command, “Information Assurance (IA) Assessment of Avaya S8800 and Hewlett Packard (HP) DL-360 G7 Small End Office (SMEO) with Aura Communication Manager (CM) Release (Rel.) 6.0.1, (Tracking Number 1020101),”
- (i) Joint Interoperability Test Command, “Defense Switched Network Generic Switch Test Plan (GSTP), Change 2,” 2 October 200