



DEFENSE INFORMATION SYSTEMS AGENCY

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IN REPLY
REFER
TO:

Joint Interoperability Test Command (JTE)

15 Oct 12

MEMORANDUM FOR DISTRIBUTION

SUBJECT: Extension of the Special Interoperability Test Certification of the REDCOM SLICE 2100™ Local Session Controllers (LSC), from Software Release 4.0 Revision 3 with Specified Patch Group 7 (4.0AR3P7) to 4.0 Revision 3 with Specified Patch Group 8 (4.0AR3P8)

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 REDCOM SLICE 2100 LSC, Version Software Release 4.0 Revision 3 with Specified Patch Group 7 (4.0AR3P7) is hereinafter referred to as the System Under Test (SUT). The SUT are certified for joint use in the Defense Information System Network (DISN) as an LSC. 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 Defense Information Systems Agency (DISA) via a vendor Plan of Action and Milestones (POA&M), which will address all new critical Test Discrepancy Reports (TDR) within 120 days of identification. Testing was conducted using LSC product requirements derived from, Reference (c) and LSC test procedures derived from Reference (d). 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 27 March 2015, three years from the date of the original Unified Capabilities Approved Products List memorandum.
3. The extension of this certification is based upon Desktop Review (DTR) 1. The original certification, documented in Reference (e), 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

JITC Memo, JTE, Extension of the Special Interoperability Test Certification of the REDCOM SLICE 2100™ Local Session Controllers (LSC), from Software Release 4.0 Revision 3 with Specified Patch Group 7 (4.0AR3P7) to 4.0 Revision 3 with Specified Patch Group 8 (4.0AR3P8)

conducted by JITC, Fort Huachuca, Arizona, from 8 March through 21 May 2010. Verification and Validation (V&V) testing was conducted from 21 February through 4 March and 7 through 18 November 2011. Review of the vendor's LoC was completed on 10 November 2011. The DISA CA has reviewed the IA Assessment Report for the SUT, Reference (f), and based on the findings in the report provided a positive recommendation on 20 March 2012. Adjudication of open TDRs was completed by DISA on 27 March 2012. This DTR was requested to update:

- The SUT software release from 4.0AR3P7 to 4.0AR3P8 to fix open interoperability test discrepancies.
- The TEO IP phones from version 05.04.02.80 to 05.04.08, which included IPv4/IPv6 capability.
- The SUT to include the Commercial Cost Avoidance (CCA). JITC conducted V&V testing at Robins Air Force Base from 23 through 27 April 2012 and successfully verified the CCA functionality.

JITC conducted additional V&V testing from 6 through 17 August 2012 and successfully verified six TDRs were fixed and there were no issues with the TEO IP software update. The DISA CA approved the new configuration on 4 September 2012, based on review of the DISA-led IA test team's updated report, Reference (g).

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 CR/FRs for LSCs 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.

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Table 1. SUT Interface Interoperability Status

Interface	Critical	UCR Reference	Threshold CR/FR ¹	Status	Remarks ²
Line Interfaces					
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 only).
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 only).
1000Base-X	No	5.3.2.6.3	2, 4, 10,13, 16	Not Tested	This interface is not offered by the SUT.
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 secure and non-secure analog instruments, fax, and modem.
BRI	No	5.3.2.6.1.8	2, 4, 10, 13	Certified	Met threshold CRs/FRs for BRI instruments. Applies to voice and clearmode data.
External Interfaces					
10Base-X	No ³	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 ³	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 ³	5.3.2.4.2	1, 2, 3, 6, 7, 8, 10, 11, 13, 15, 16	Not Tested	This interface is not offered by the SUT.
ISDN T1 PRI NI-2 (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 (ANSI T1.607)	Yes	5.3.2.4.3	2, 3, 7, 8, 10, 13	Certified	Met threshold CRs/FRs. Provides PSTN Connectivity
T1 CCS7 ANSI T1.619a	No	5.3.2.12.9	2, 3, 7, 8, 10, 13	Not Tested	This interface is offered by the SUT; however, it was not tested.
T1 CAS (DP, DTMF, MFR1)	No	5.3.2.12.11	2, 3, 7, 8, 10, 13	Certified	Met threshold CRs/FRs for T1 CAS.
E1 CAS (DP, DTMF, MFR1)	No	5.3.2.12.11	2, 3, 7, 8, 10, 13	Certified	Met threshold CRs/FRs for T1 CAS.
E1 PRI ITU-T Q.955.3	No ⁴	5.3.2.12.10	2, 3, 7, 8, 10, 13	Certified	Met threshold CRs/FRs for E1 PRI ITU-T Q.955.3. Provides Legacy DSN connectivity in Europe.
E1 PRI ITU-T Q.931	No ⁴	5.3.2.12.10	2, 3, 7, 8, 10, 13	Certified	Met threshold CRs/FRs for E1 PRI ITU-T Q.931. Provides PSTN connectivity in Europe.
NM					
10Base-X	No ³	5.3.2.4.4 5.3.2.7.2.8	16, 17	Certified	Met threshold CRs/FRs. Verified via LoC.
100Base-X	No ³	5.3.2.4.4 5.3.2.7.2.8	16, 17	Certified	Met threshold CRs/FRs. Verified via LoC.

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Table 1. SUT Interface Interoperability Status (continued)

NOTES:			
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 Reference (e), Enclosure 3.			
2. Detailed information pertaining to open TDRs and associated operational impacts is in Reference (e), Enclosure 2, paragraph 11.			
3. The SUT must provide a minimum of one of the listed interfaces.			
4. This interface is conditionally required for deployment in Europe.			
LEGEND:			
ANSI	American National Standards Institute	Mbps	Megabits per second
AS-SIP	Assured Services Session Initiation Protocol	MFR1	Multi-Frequency Recommendation 1
BRI	Basic Rate Interface	MLPP	Multi-Level Precedence and Preemption
CAS	Channel Associated Signaling	NI-2	National ISDN-2
CCS7	Common Channel Signaling 7	NM	Network Management
CR	Capability Requirement	PEI	Proprietary End Instrument
DP	Dial Pulse	PRI	Primary Rate Interface
DSN	Defense Switched Network	PSTN	Public Switched Telephone Network
DSS1	Digital Subscriber Signaling 1	Q.931	Signaling Standard for ISDN
DTMF	Dual Tone Multi-Frequency	Q.955.3	ISDN Signaling Standard for E1 MLPP
E1	European Basic Multiplex Rate (2.048 Mbps)	SS7	Signaling System 7
FR	Functional Requirement	SUT	System Under Test
ID	Identification	T1	Digital Transmission Link Level 1 (1.544 Mbps)
IEEE	Institute of Electrical and Electronics Engineers	T1.607	ISDN – Layer 3 Signaling Specification For Circuit Switched Bearer Service For DSS1
ISDN	Integrated Services Digital Network	T1.619a	SS7 and ISDN MLPP Signaling Standard For T1
ITU-T	International Telecommunication Union – Telecommunication Standardization Sector	TDR	Test Discrepancy Report
LoC	Letter of Compliance	UCR	Unified Capabilities Requirements

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Table 2. SUT CR and FR Status

CR/FR ID	Capability/Function	Applicability ¹	UCR Reference	Status
1	Assured Services Product Features and Capabilities			
	DSCP Packet Marking	Required	5.3.2.2.1.4	Met ²
	Voice Features and Capabilities	Required	5.3.2.2.2.1	Met ^{3,4,5}
	Public Safety Features	Required	5.3.2.2.2.2	Met
	ASAC – Open Loop	Required	5.3.2.2.2.3	Met ⁶
	Signaling Protocols	Required	5.3.2.2.3	Met
	Signaling Performance	Conditional	5.3.2.2.4	Met
2	Registration, Authentication, and Failover			
	Registration	Required	5.3.2.3.1	Met
	Failover	Required	5.3.2.3.2	Partially Met ⁷
3	Product Physical, Quality, and Environmental Factors			
	Availability	Required	5.3.2.5.2.1	Partially Met ⁷
	Maximum Downtimes	Required	5.3.2.5.2.2	Met
	Loss of Packets	Required	5.3.2.5.4	Met
4	Voice End Instruments			
	Tones and Announcements	Required	5.3.2.6.1.1	Met
	Audio Codecs	Required	5.3.2.6.1.2	Partially Met ⁸
	VoIP PEI or AEI Audio Performance	Required	5.3.2.6.1.3	Partially Met ⁹
	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	Not Tested ¹⁰
	ISDN BRI	Conditional	5.3.2.6.1.8	Met
5	Video End Instruments			
	Video End Instrument	Required	5.3.2.6.2	Not Met ¹¹
	Display Messages, Tones, and Announcements	Required	5.3.2.6.2.1	Not Met ¹¹
	Video Codecs (Including Associated Audio Codecs)	Required	5.3.2.6.2.2	Not Met ¹¹
6	LSC Requirements			
	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 ¹²
Line-Side Custom Features Interference	Conditional	5.3.2.7.2.11	Not Tested ¹³	
	Loop Avoidance	Required	5.3.2.7.3	Met
7	Call Connection Agent Requirements			
	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 ¹³
	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 ¹³
	CCA-IWF Support for PRI via MG	Required	5.3.2.9.5.3	Met
CCA-IWF Support for CAS Trunks via MG	Conditional	5.3.2.9.5.4	Not Tested ¹³	
	CCA-IWF Support for PEI and AEI Signaling Protocols	Required	5.3.2.9.5.5	Met

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Table 2. SUT CR and FR Status (continued)

CR/FR ID	Capability/Function	Applicability ¹	UCR Reference	Status
7	Call Connection Agent Requirements (continued)			
	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
	CCA Interaction with EIs	Required	5.3.2.10.10	Met
	CCA Support for AS Voice and Video	Required	5.3.2.10.11	Partially Met ¹¹
	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 ¹³	
8	MG Requirements			
	Role of MG In LSC	Required	5.3.2.12.3.1	Partially Met ¹⁴
	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 ¹³
	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 ¹³
	MG Interface to TDM PSTN in US	Required	5.3.2.12.7	Met
	MG Interfaces to TDM PSTN OCONUS	Required	5.3.2.12.8	Met
	MG Support for CCS7	Conditional	5.3.2.12.9	Not Tested ¹³
	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
	MG requirements for VoIP Internal Interfaces	Required	5.3.2.12.12	Met ¹⁴
	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	Met ¹⁵	
MG Preservation of Call Ringing during Failure	Required	5.3.2.12.17	Met	
9	SG Requirements			
	SG and CCS7 network Interactions	Conditional	5.3.2.13.5.1	Not Tested ¹³
	SG Interactions with CCA	Conditional	5.3.2.13.5.2	Not Tested ¹³
	SG Interworking Functions	Conditional	5.3.2.13.5.3	Not Tested ¹³
10	WWNDP Requirements			
	WWNDP	Required	5.3.2.16	Met
	DSN WWNDP	Required	5.3.2.16.1	Met
11	Commercial Cost Avoidance			
	Commercial Cost Avoidance	Required	5.3.2.23	Met ^{16, 17}

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Table 2. SUT CR and FR Status (continued)

CR/FR ID	Capability/Function	Applicability ¹	UCR Reference	Status
12	AS-SIP Based for External Devices (Voicemail, Unified Messaging, and Automated Receiving Devices)			
	AS-SIP Requirements for External Interfaces	Conditional	5.3.2.24	Not Tested ¹³
13	Precedence Call Diversion			
	Precedence Call Diversion	Required	5.3.2.25	Met
14	Attendant Station Features			
	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	AS-SIP Requirements			
	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 ¹¹
	Calling Services	Required	5.3.4.13	Met
	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 ³
16	IPv6 Requirements			
	Product Requirements	Required	5.3.5.4	Met ¹⁸
17	NM			
	LSC Management Function	Required	5.3.2.7.2.6	Met
	VVoIP NMS Interface Requirements	Required	5.3.2.4.4	Met ¹⁹
	General Management requirements	Required	5.3.2.17.2	Met ¹⁹
	Requirement for FCAPS Management	Required	5.3.2.17.3	Met
	NM requirements of Appliance Functions	Required	5.3.2.18	Met ²⁰
	Accounting Management	Required	5.3.2.19	Met ²⁰

NOTES:

1. The annotation of 'required' refers to a high-level requirement category. The applicability of each sub-requirement is provided in Reference (e), Enclosure 3.
2. The SUT correctly class marks calls based on the precedence level dialed; however, the DSCP values are not configurable from 0-63 as required by UCR 2008, Change 2. The TEO dual-stack IPv6 preferred IP phone tags outgoing voice media packets with a DSCP value of 49 (routine) for all precedence levels. DISA has accepted and approved the vendor's POA&M and adjudicated this discrepancy as having a minor operational impact.

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Table 2. SUT CR and FR Status (continued)

NOTES (continued):

3. During the original interoperability testing, the SUT met all critical CRs & FRs with one minor exception: In a 3-way conference, the SUT did not classmark the conference at the highest precedence level of each leg of the conference. This was adjudicated by DISA as having a minor operational impact with a vendor POA&M to fix by 1 July 2012. This discrepancy was fixed and successfully tested with DTR 1, which included an update on the SUT from version 4.0AR3P7 to 4.0AR3P8.
4. The SUT experiences one way audio when an IP or analog EI places a call to another switch on hold. The SUT drops the call when a BRI EI places a call to another switch on hold. These issues do not occur if the other switch places the call on hold. DISA has accepted and approved the vendor's POA&M and adjudicated this discrepancy as having a minor operational impact.
5. The SUT attended transfer calls fail. The first two legs of the call are established and the analog EI can hook flash back and forth between the parties; however, when the attended transfer is attempted by the analog EI hanging up, the attended transfer fails. DISA has accepted and approved the vendor's POA&M and adjudicated this discrepancy as having a minor operational impact.
6. During the original interoperability testing, the SUT did not support separate ASAC counts for video and voice. This was adjudicated by DISA as having a minor operational impact with a vendor POA&M to fix by 1 July 2012. This discrepancy was fixed and successfully tested with DTR 1, which included an update on the SUT from version 4.0AR3P7 to 4.0AR3P8.
7. The SUT does not fully support the failover requirements. The SUT does not have dual power supplies, it does not properly switch to the backup processor when the Ethernet connection fails, and it has a single point of failure that could cause a loss of voice and/or video services. This was adjudicated as having a minor operational impact based on vendor's reliability calculations.
8. The SUT does not support ITU-T G.722.1 voice codec. This was adjudicated by DISA as having a minor operational impact with a vendor POA&M to fix by December 2012.
9. The SUT only supports voice PEIs. The vendor did not support AEI voice capability. This was adjudicated by DISA to have a minor operational impact since there were no certified AEI video end instruments on the UC APL.
10. The vendor did not provide soft phones with the SUT for interoperability testing; therefore, they were not tested. Soft phones are a conditional requirement.
11. The SUT offers video; however, it is not covered under this certification. JITC only conducted limited video testing on the SUT with Polycom video EIs. Due to the fact that their video EI is not IPv6 capable and did not offer a GA load it did not meet this requirement. This was adjudicated by DISA as having a minor operational impact with a vendor POA&M to fix by February 2013. The vendor has stated the initial firmware will be available in 2012 and the GA load will be available in 2013. The SUT is not certified for use with video EIs.
12. The SUT does not comply with the requirement to be configurable to set interval times to verify status of its IP EI's with the default set at five minutes. This was adjudicated by DISA as having a minor operational impact with the intent to change the requirement to conditional in next UCR update.
13. This is a conditional requirement and was not tested.
14. The SUT met this requirement with VoIP PEIs only.
15. During the original interoperability testing, the SUT did not fully comply with the requirements for ITU-T V.150.1. For FAX (ITU-T T.38 transitions) the LSC maintains the session protocol (UDP). However, the port is changed when moving from VoIP to FoIP. The LSC sends a REINVITE (per MGC transitioning rules) with the new port number; therefore, SIP compliant devices (including the EBC) should follow the port change. The port selection is currently configurable for MoIP because MoIP does not use the REINVITE method for transition. This was adjudicated by DISA as having a minor operational impact with a vendor POA&M to fix by 1 July 2012. This discrepancy was fixed and successfully tested with DTR 1, which included an update on the SUT from version 4.0AR3P7 to 4.0AR3P8.
16. During the original interoperability testing, the SUT did not support LDAP V3 for CCA. Transition to the LDAP format was in progress and was expected to be functional by late June 2011. This was adjudicated by DISA as having a minor operational impact with a vendor POA&M to fix by 1 July 2012. This discrepancy was fixed and successfully tested with DTR 1, which included an update on the SUT from version 4.0AR3P7 to 4.0AR3P8.
17. The vendor submitted a LoC with the following discrepancy: The SUT does not support the Commercial Cost Avoidance LDAP database keep-alive messaging format IAW UCR 2008, Change 2, section 5.3.2.28.5.2.5. The vendor states the frequency of the keep-alive messages is too frequent. DISA adjudicated this as minor and stated their intent to change the requirement in UCR 2013.
18. During the original interoperability testing, the vendor submitted an IPv6 LoC with noted discrepancies which include: The SUT is not fully compliant with IPv6 neighbor discovery IAW RFC 4861. This was adjudicated by DISA as having a minor operational impact with a vendor POA&M to fix by 1 July 2012. This discrepancy was fixed and successfully tested with DTR 1, which included an update on the SUT from version 4.0AR3P7 to 4.0AR3P8.
19. During the original interoperability testing, the vendor submitted a LoC with the following noted discrepancy: The SUT is fully compliant when stacked, partially compliant in single shelf. A separate serial management interface is provided for CIT and other management traffic.
20. During the original interoperability testing, the vendor submitted an NM LoC with the following noted discrepancies: The SUT does not fully comply with the CDR and QoS requirements per UCR 2008, Change 2, section 5.3.2.19.2.1.x. The SUT does not comply with the Management Requirements for ASAC per UCR 2008, Change 2, section 5.3.2.18.2. These were adjudicated by DISA as having a minor operational impact with vendor POA&M to fix by 1 July 2012. This discrepancy was fixed and successfully tested with DTR 1, which included an update on the SUT from version 4.0AR3P7 to 4.0AR3P8.

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Table 2. SUT CR and FR Status (continued)

LEGEND:			
AEI	AS-SIP End Instrument	JITC	Joint Interoperability Test Command
Apl	Approved Products List	LDAP	Lightweight Directory Access Protocol
AS	Assured Services	LoC	Letter of Compliance
ASAC	Assured Services Admission Control	LSC	Local Session Controller
AS-SIP	Assured Services Session Initiation Protocol	MG	Media Gateway
BRI	Basic Rate Interface	MGC	Media Gateway Controller
CAS	Channel Associated Signaling	MoIP	Modem over Internet Protocol
CCA	Call Connection Agent	NM	Network Management
CCS7	Common Channel Signaling 7	NMS	Network Management System
CDR	Call Detail Records	OCONUS	Outside the Continental United States
CR	Capabilities Requirement	PBAS	Precedence-Based Assured Service
DISA	Defense Information Systems Agency	PEI	Proprietary End Instrument
DSCP	Differentiated Services Code Point	POA&M	Plan of Actions and Milestones
DSN	Defense Switched Network	PRI	Primary Rate Interface
DTR	Desktop Review	PSTN	Public Switched Telephone Network
EBC	Edge Boundary Controller	QoS	Quality of Service
EI	End Instrument	RFC	Request for Comments
FCAPS	Fault, Configuration, Accounting, Performance, and Security	SG	Signaling Gateway
FoIP	Fax over Internet Protocol	SIP	Session Initiation Protocol
FR	Functional Requirement	SS7	Signaling System Number 7
GA	General Available	SUT	System Under Test
IA	Information Assurance	TDM	Time Division Multiplexing
IAW	in accordance with	UC	Unified Capabilities
ID	Identification	UCR	Unified Capabilities Requirements
IP	Internet Protocol	UDP	User Datagram Protocol
IPv6	Internet Protocol version 6	UFS	User Features and Services
ISDN	Integrated Services Digital Network	VoIP	Voice over Internet Protocol
ITU-T	International Telecommunication Union - Telecommunication Standardization Sector	VVoIP	Voice and Video over Internet Protocol
IWF	Interworking Function	WAN	Wide Area Network
		WWNDP	World Wide Numbering and Dialing Plan

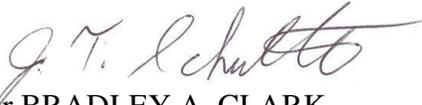
5. No detailed test report was developed in accordance with the Program Manager's request. JITC distributes interoperability information via the JITC Electronic Report Distribution (ERD) system, which uses Unclassified-But-Sensitive Internet Protocol Router Network (NIPRNet) e-mail. More comprehensive 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 <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>. All associated data is available on the Defense Information Systems Agency Unified Capability Coordination Office (UCCO) website located at <http://www.disa.mil/ucco/>.

JITC Memo, JTE, Extension of the Special Interoperability Test Certification of the REDCOM SLICE 2100™ Local Session Controllers (LSC), from Software Release 4.0 Revision 3 with Specified Patch Group 7 (4.0AR3P7) to 4.0 Revision 3 with Specified Patch Group 8 (4.0AR3P8)

6. The JITC point of contact is Ms. Anita Mananquil, DSN 879-5164, commercial (520) 538-5164, FAX DSN 879-4347, or e-mail to anita.l.mananquil.civ@mail.mil. JITC's mailing address is P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The UCCO tracking number for the SUT is 0932803.

FOR THE COMMANDER:

Enclosure a/s


for BRADLEY A. CLARK
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NSG Interoperability Assessment Team

DOT&E, Netcentric Systems and Naval Warfare

Medical Health Systems, JMIS IV&V

HQUSAISEC, AMSEL-IE-IS

UCCO

ADDITIONAL REFERENCES

- (c) Office of the Assistant Secretary of Defense, "Department of Defense Unified Capabilities Requirements 2008, Change 2," 31 December 2010
- (d) Joint Interoperability Test Command, "Unified Capabilities Test Plan (UCTP)," Draft
- (e) Joint Interoperability Test Command, Memo, JTE, "Special Interoperability Test Certification of the REDCOM SLICE 2100™ Local Session Controllers (LSC), Software Release 4.0 Revision 3 with Specified Patch Group 7 (4.0AR3P7)," 30 March 2012
- (f) Joint Interoperability Test Command, "Information Assurance (IA) Assessment of REDCOM SLICE 2100™ Local Session Controllers, Version 4.0AR3 (TN 0932803)," Draft
- (g) Joint Interoperability Test Command, "Information Assurance (IA) Assessment of REDCOM SLICE 2100 Release (Rel.) 4.0AR3P8 (Tracking Number 0932803)," Draft