



DEFENSE INFORMATION SYSTEMS AGENCY

P. O. BOX 549
FORT MEADE, MARYLAND 20755-0549

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

MEMORANDUM FOR DISTRIBUTION

14 Jul 11

SUBJECT: Extension of the Special Interoperability Test Certification of the Cisco Unified Communication Manager Local Session Controller, Version 8.0(2)

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 (f), see Enclosure

1. References (a) and (b) establish the Joint Interoperability Test Command (JITC), as the responsible organization for interoperability test certification.
2. The Cisco Unified Communications Manager (CUCM), Version 8.0(2), hereinafter referred to as the System Under Test (SUT) is certified for joint use in the Defense Information System Network (DISN) as a Local Session Controller (LSC). The Defense Information Systems Agency adjudicated all open non-AS Test Discrepancy Reports (TDRs) to have a minor operational impact. The fielding of the SUT is limited to IP version 4 (IPv4) across the DISN. Intra-enclave use of IPv4 and IPv6 is authorized for use. 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 LSC product requirements derived from the Unified Capabilities Requirements (UCR), Reference (c), and LSC test procedures, 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 three years from the date of the original memorandum (23 September 2010).
3. The extension of this certification is based upon Desktop Review (DTR) 2. 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 28 June through 20 August 2010 and documented in Reference (e). Review of the vendor's LoC was completed on 21 September 2010. The DISA CA has reviewed the IA Assessment Report for the SUT, Reference (f), and based on the findings in the report has 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 LSC requirements. This DTR was requested

Enclosure

to include Survivable Remote Site Telephony (SRST) functionality on the certified 3945 Integrated Services Router (ISR). This DTR was reviewed by JITC and determined that Verification and Validation (V&V) testing would be needed to validate the SRST functionality and verify there was no impact on interoperability. The V&V testing was conducted from 25 through 29 April 2011 and 6 May 2011. The SRST functionality is dormant during normal SUT operation and after loss of primary DISN connectivity provides ROUTINE only intra-enclave voice features for Internet Protocol (IP) and analog end instruments registered to the ISR as well as access to the Public Switched Telephone Network (if available) for ROUTINE and emergency 911 calls. Therefore, JITC approves this DTR. SRST does not change the IA posture of this SUT, therefore the original DISA Network Systems Directorate approval (12 May 2011) applies to 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 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.

Table 1. SUT Interface Interoperability Status

Interface	Critical	UCR Reference	Threshold CR/FR Requirements (See note 1.)	Status	Remarks (See note 2.)
Line Interfaces					
10Base-X	Yes	5.3.2.6.3	2, 4, 10, 13, and 16	Certified	Met threshold CRs/FRs for IEEE 802.3i and 802.3j. Applies to PEIs and softphones.
100Base-X	Yes	5.3.2.6.3	2, 4, 10, 13, and 16	Certified	Met threshold CRs/FRs for IEEE 802.3u. Applies to PEIs and softphones.
1000Base-X	No	5.3.2.6.3	2, 4, 10,13, and 16	Certified	Met threshold CRs/FRs for IEEE 802.3ab. Applies to PEIs and softphones.
2-wire analog	Yes	5.3.2.6.1.6	2, 4, 10, and 13	Certified	Met threshold CRs/FRs for 2-wire instruments. Applies to 2-wire secure and non-secure analog instruments. Requirement met through use of an IAD integrated in the MG that supports IEEE 802.3i, 802.3u, and 802.3ab (See note 3.).
BRI	No	5.3.2.6.1.8	2, 4, 10, and 13	Not Tested	This interface is offered by the SUT but was not tested because it does not support Assured Services.
External Interfaces					
10Base-X	No (See note 4.)	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. Applies to AS-SIP trunk.
100Base-X	No (See note 4.)	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. Applies to AS-SIP trunk.
1000Base-X	No (See note 4.)	5.3.2.4.2	1, 2, 3, 6, 7, 8, 10, 11, 13, 15, and 16	Certified	Met threshold CRs/FRs for IEEE 802.3z 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, and 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, and 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, and 13	Not Tested	This interface is not offered by the SUT.

Table 1. SUT Interface Interoperability Status

Interface	Critical	UCR Reference	Threshold CR/FR Requirements (See note 1.)	Status	Remarks (See note 2.)
External Interfaces (continued)					
T1 CAS	No	5.3.2.12.11	2, 3, 7, 8, 10, and 13	Not Certified	This interface is offered by the SUT but was not certified because of known discrepancies (See note 5.).
E1 PRI ITU-T Q.955.3	No (See note 6.)	5.3.2.12.10	2, 3, 7, 8, 10, and 13	Certified	Tested under PBX1 configuration. Results applicable to LSC.
E1 PRI ITU-T Q.931	No (See note 6.)	5.3.2.12.10	2, 3, 7, 8, 10, and 13	Certified	Conditionally required for European PSTN connectivity.
Interface	Critical	UCR Reference	Threshold CR/FR Requirements (See note 1.)	Status	Remarks (See note 2.)
NM					
10Base-X	No (See note 4.)	5.3.2.4.4 5.3.2.7.2.8	16 and 17	Certified	Met threshold CRs/FRs. Verified via LoC.
100Base-X	No (See note 4.)	5.3.2.4.4 5.3.2.7.2.8	16 and 17	Certified	Met threshold CRs/FRs. Verified via LoC.

NOTES:

- CR/FR requirements are contained in Table 2. CR/FR numbers represent a roll-up of UCR requirements. Enclosure 3 provides a list of more detailed requirements LSC products.
- Paragraph 11 of Enclosure 2 provides detailed information pertaining to open TDRs and associated operational impacts
- Voice calls from the SUT gateway analog interfaces via the UC DISN WAN require a loopback configuration of ANSI T1.619a ISDN PRI interfaces within each gateway (refer to Cisco CUCM deployment guide). This configuration requires translations in the gateways to route all out going analog calls placed towards the UC DISN WAN via the looped T1s. Additionally, incoming calls from the UC DISN WAN to analog end instruments on each gateway must be routed via the looped T1s. Without this configuration, analog end instruments cannot place calls via the UC DISN WAN. This configuration requires two looped ISDN PRI ANSI T1.619a T1s within each 3845 and 3945 gateways and will support a maximum of 69 analog interfaces per gateway. This allows for up to two ISDN PRI T1 interfaces or one ISDN PRI E1 interface for timing/network access. In addition, each 2851 and 2951 gateway requires one looped ANSI T1.619a ISDN PRI within each 2851 and 2951 gateway and will support a maximum of 23 analog interfaces per gateway. Both gateways also require a T1 or E1 interface for synchronization via recovered timing.
- Must provide a minimum of one of the listed interfaces.
- The SUT CAS interface had interoperability test discrepancies adjudicated to be critical for certification of this interface.
- The interface is conditionally required for deployment in Europe.

LEGEND:

10Base-X	10 Mbps Ethernet	LoC	Letter of Compliance
100Base-X	100 Mbps Ethernet	LSC	Local Session Controller
1000Base-X	1000 Mbps Ethernet	Mbps	Megabits per second
802.3ab	1000 Mbps Ethernet over Twisted Pair	MG	Media Gateway
802.3i	10 Mbps twisted pair media for 10Base-X networks	MLPP	Multi-Level Precedence and Preemption
802.3j	10 Mbps fiber media for 10Base-X networks	NA	Not Applicable
802.3u	100BASE-TX, 100BASE-T4, 100BASE-FX Fast Ethernet at 100 Mbps with auto negotiation	NI-2	National ISDN Standard 2
802.3z	Standard for Gigabit Ethernet	NM	Network Management
ANSI	American National Standards Institute	PBX	Private Branch Exchange
AS-SIP	Assured Services Session Initiation Protocol	PEI	Proprietary End Instrument
BRI	Basic Rate Interface	PRI	Primary Rate Interface
CAS	Channel Associated Signaling	PSTN	Public Switched Telephone Network
CCS7	Common Channel Signaling	Q.931	Signaling Standard for ISDN
CR	Capability Requirement	Q.955.3	ISDN Signaling Standard for E1 MLPP
DSN	Defense Switched Network	SS7	Signaling System 7
E1	European Basic Multiplex Rate (2.048 Mbps)	SUT	System Under Test
FR	Functional Requirement	T1	Digital Transmission Link Level 1 (1.544 Mbps)
IAD	Integrated Access device	T1.619a	SS7 and ISDN MLPP Signaling Standard for T1
IEEE	Institute of Electrical and Electronics Engineers, Inc.	TDRs	Test Discrepancy Reports
ISDN	Integrated Services Digital Network	UCR	Unified Capabilities Requirements
ITU-T	International Telecommunication Union – Telecommunication Standardization Sector	VoIP	Voice over Internet Protocol
		WAN	Wide Area Network

Table 2. SUT Capability Requirements and Functional Requirements Status

CR/FR ID	Capability/ Function	Applicability (See note 1.)	UCR Reference	Status	Remarks
1	Assured Services Product Features and Capabilities				
	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	5.3.2.2.2.3	Met	
	Signaling Performance	Required	5.3.2.2.2.4	Met	
2	Registration, Authentication, and Failover				
	Registration	Required	5.3.2.3.1	Met	
	Failover	Required	5.3.2.3.2	Met	
3	Product Physical, Quality, and Environmental Factors				
	Availability	Required	5.3.2.5.2.1	Partially Met	See note 3
	Maximum Downtimes	Required	5.3.2.5.2.2	Met	
	Loss of Packets	Required (See note 4.)	5.3.2.5.4	Met	
4	Voice End Instruments				
	Tones and Announcements	Required	5.3.2.6.1.1	Partially Met	See notes 2 and 5.
	Audio Codecs	Required	5.3.2.6.1.2	Partially Met	See note 5.
	VoIP PEI or AEI Audio Performance Requirements	Required	5.3.2.6.1.3	Partially Met	See note 5.
	VoIP Sampling Standard	Required	5.3.2.6.1.4	Partially Met	See note 5.
	Authentication to LSC	Required	5.3.2.6.1.5	Partially Met	See note 5.
	Analog Telephone Support	Required (See note 6.)	5.3.2.6.1.6	Partially Met	See note 7.
	Softphones	Conditional	5.3.2.6.1.7	Met	See note 8.
5	Video End Instruments				
	Video End Instrument	Required	5.3.2.6.2	Not Tested	See note 8.
	Display Messages, Tones, and Announcements	Required	5.3.2.6.2.1	Not Tested	See note 8.
	Video Codecs (Including Associated Audio Codecs)	Required	5.3.2.6.2.2	Not Tested	See note 8.
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.	See note 9.
	Line-Side Custom Features Interference	Conditional	5.3.2.7.2.11	Met	See note 17
Loop Avoidance	Required (See note 4.)	5.3.2.7.3	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	Call Connection Agent Requirements				
	CCA IWF Component	Required (See note 10.)	5.3.2.9.2.1	Met	See note 11.
	CCA MGC Component	Required (See note 10.)	5.3.2.9.2.2	Met	
	SG Component	Conditional	5.3.2.9.2.3	Not Tested	See note 11.
	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 11.
	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	See note 11.
	CCA-IWF Support for PEI and AEI Signaling Protocols	Required	5.3.2.9.5.5	Partially Met	See note 12.
	CCA-IWF Support for VoIP and TDM Protocol Interworking	Required (See note 10.)	5.3.2.9.5.6	Met	See note 11.
	CCA Preservation of Call Ringing State during Failure Conditions	Required (See note 4.)	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	Partially Met	See note 5.
	CCA Support for AS Voice and Video	Required	5.3.2.10.11	Partially Met	See note 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	Not Tested	See note 11.	
8	MG Requirements				
	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	
	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	See note 5.
	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 notes 10 and 11.
	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 10.
	MG Interfaces to TDM PSTN OCONUS	Required	5.3.2.12.8	Partially Met	See note 10.
MG Support for CCS7	Conditional	5.3.2.12.9	Not Tested	See note 11.	
MG Support for ISDN PRI Trunks	Required	5.3.2.12.10	Met		

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

CR/FR ID	Capability/ Function	Applicability (See note 1.)	UCR Reference	Status	Remarks
8	MG Requirements (continued)				
	MG Support for CAS Trunks	Required	5.3.2.12.11	Not Tested	See note 11.
	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 7.
	MG Preservation of Call Ringing during Failure	Required (See note 4.)	5.3.2.12.17	Met	
9	SG Requirements				
	SG and CCS7 Network Interactions	Conditional	5.3.2.13.5.1	Not Tested	See note 11.
	SG Interactions with CCA	Conditional	5.3.2.13.5.2	Not Tested	See note 11.
	SG Interworking Functions	Conditional	5.3.2.13.5.3	Not Tested	See note 11.
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 (See note 3.)	5.3.2.23	Not Tested	
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	Precedence Call Diversion				
	Precedence call Diversion	Required	5.3.2.25	Met	
14	Attendant Station Features				
	Precedence and Preemption	Required (See note 3.)	5.3.2.26.1	Not Tested	See note 13.
	Call Display	Required (See note 3.)	5.3.2.26.2	Not Tested	See note 13.
	Class of Service Override	Required (See note 3.)	5.3.2.26.3	Not Tested	See note 13.
	Busy Override and Busy Verification	Required (See note 3.)	5.3.2.26.4	Not Tested	See note 13.
	Night service	Required (See note 3.)	5.3.2.26.5	Not Tested	See note 13.
	Automatic Recall of Attendant	Required (See note 3.)	5.3.2.26.6	Not Tested	See note 13.
	Calls in Queue to the Attendant	Required (See note 3.)	5.3.2.26.7	Not Tested	See note 13.
15	AS-SIP Requirements				
	SIP Requirements for AS-SIP Signaling Appliances and AS-SIP EIs	Required (See note 3.)	5.3.4.7	Not Tested	
	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 Tested	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	Met		
Relevant Timers for the Terminating Gateway and the Originating Gateway	Required	5.3.4.15	Met		

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

CR/FR ID	Capability/ Function	Applicability (See note 1.)	UCR Reference	Status	Remarks
15	AS-SIP Requirements (continued)				
	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	
16	IPv6 Requirements				
	Product Requirements	Required	5.3.5.4	Partially met	See note 14.
17	NM				
	LSC Management Function	Required	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	Partially Met	See note 15.
	Requirement for FCAPS Management	Required	5.3.2.17.3	Partially Met	See note 15.
	NM requirements of Appliance Functions	Required	5.3.2.18	Partially Met	See note 15.
	Accounting Management	Required	5.3.2.19	Met	See note 16.

NOTES:

1. Annotation of 'required' refers to high level requirement category. Applicability of each sub-requirement is provided in enclosure 3.
2. The SUT had outstanding open TDRs at the completion of testing adjudicated by DISA to have a minor operational impact. The vendor has submitted a PoAM to address the open TDRs. Paragraph 11 of Enclosure 2 provides additional details.
3. When the SUT fails from the primary processor to backup processor all active drop after approx 6-8 minutes. DISA adjudicated this TDR as minor with the vendor's submitted PoAM to fix by June 2011.
4. This requirement represents a new UCR requirement where the vendor has 18-months (July 2011) to comply.
5. SUT met the requirement for PEIs; SUT was not tested with generic AEI because no AEI was provided. AEIs are a new UCR 2008 Change 1 requirement; the vendor has 18-months (July 2011) to comply.
6. UCR 2008 Change 1 added 18-month rule for G.711 and V.150.1 IAD support.
7. Vendor submitted LoC stating compliance to V.150 however this feature could not be tested because it is not supported by other vendors. This is a new UCR 2008 change 1 requirement; therefore the vendor has until July 2011 to comply with this requirement.
8. SUT did not demonstrate video requirements (conditional for softphone). Vendor did not provide a PEI video capability. This was adjudicated by DISA to have a low operational impact because of the limited deployment of PEIs with video.
9. SUT partially met PEI requirements (no video). The AEI and Operator Console requirements were not tested; the 18-month rule for complying (July 2011) applies.
10. The SUT must meet T1 PRI (T1.619a and NI-2) IWF. The T1 CAS and T1 CCS7 are conditional.
11. The SUT met T1/E1 PRI IWF requirements. The T1 CAS is supported but not certified and T1 CCS7 is not supported by the SUT.
12. The SUT met PEI CCA-IWF requirements. The AEI CCA-IWF requirements were not tested. The 18-month rule applies to AEIs.
13. The Attendant Console requirements are new UCR requirements; 18-month rule applies.
14. The vendor submitted an IPv6 LoC with noted discrepancies. Open TDRs were adjudicated by DISA to have a minor operational impact with vendor submitted PoAM.
15. The vendor submitted an NM LoC with noted discrepancies. Open TDRs were adjudicated by DISA to have a minor operational impact with vendor submitted PoAM.
16. The vendor does not comply with the objective requirement for Record Format.
17. Survivable Remote Site Telephony (SRST) functionality is dormant during normal SUT operation and after loss of primary DISN connectivity provides ROUTINE only intra-enclave voice features for Internet Protocol (IP) and analog end instruments.

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

LEGEND:			
AEI	AS-SIP End Instrument	LSC	Local Session Controller
AS	Assured Services	Mbps	Megabits per second
AS-SIP	Assured Services Session Initiation Protocol	MG	Media Gateway
BRI	Basic Rate Interface	MGC	Media Gateway Controller
C2	Command and Control	MFSS	Multi-Function Soft Switch
CAS	Channel Associated Signaling	MLPP	Multilevel Precedence and Preemption
CCA	Call Connection Agent	NI-2	National ISDN Standard 2
CR	Capabilities Requirement	NM	Network Management
CCS7	Common Channel Signaling	NMS	Network Management System
DHCP	Dynamic Host Configuration Protocol	OCONUS	Outside the Continental United States
DISA	Defense Information Systems Agency	PBAS	Precedence Based Assured Services
DSCP	Differentiated Services Code Point	PEI	Proprietary End Instrument
DSN	Defense Switched Network	PoAM	Plan of Action and Milestones
EBC	Edge Boarder Controller	PRI	Primary Rate Interface
EI	End Instrument	PSTN	Public Switched Telephone Network
FCAPS	Fault, Configuration, Accounting, Performance and Security	SG	Signaling Gateway
FR	Functional Requirement	SIP	Session Initiation Protocol
G.711	Standard for PCM of Voice Frequencies	SS7	Signaling System 7
IA	Information Assurance	SUT	System Under Test
IAD	Integrated Access Device	T1	Digital Transmission Link Level 1 (1.544 Mbps)
IP	Internet Protocol	T1.619a	SS7 and ISDN MLPP Signaling Standard for T1
ID	Identification	TDM	Time Division Multiplexing
ISDN	Integrated Services Digital Network	TDR	Test Discrepancy Report(s)
IEEE	Institute of Electrical and Electronics Engineers, Inc.	UCR	Unified Capabilities Requirements
IP	Internet Protocol	UFS	User Features and Services
IPv6	Internet Protocol version 6	U.S.	United States
IWF	Interworking Function	VoIP	Voice over Internet Protocol
JITC	Joint Interoperability Test Command	WAN	Wide Area Network
LoC	Letter of Compliance	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 <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>. All associated data is available on the Defense Information Systems Agency Unified Capability Coordination Office (UCCO) website located at <http://www.disa.mil/ucco/>.

6. The JITC point of contact is Mr. Edward Mellon, commercial (520) 538-5159, or DSN 312-879-5159, e-mail address is edward.mellon@disa.mil. The JITC's mailing address is P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The UCCO tracking number is 1011801.

FOR THE COMMANDER:

Enclosure a/s


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Headquarters U.S. Air Force, Office of Warfighting Integration & CIO, AF/XCIN (A6N)

Department of the Army, Office of the Secretary of the Army, DA-OSA CIO/G-6 ASA (ALT), SAIS-IOQ

U.S. Marine Corps MARCORSYSCOM, SIAT, MJI Division I

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

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- (d) Joint Interoperability Test Command, “Unified Capabilities Test Plan (UCTP),” Draft
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