



DEFENSE INFORMATION SYSTEMS AGENCY

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

16 Jun 10

MEMORANDUM FOR DISTRIBUTION

SUBJECT: Special Interoperability Test Certification of K&R Custom Software Version 5.3

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 (e), see Enclosure 1

1. References (a) and (b) establish the Defense Information Systems Agency (DISA), Joint Interoperability Test Command (JITC), as the responsible organization for interoperability test certification.
2. The K&R Custom Software Version 5.3 is hereinafter referred to as the system under test (SUT). The SUT met the interface and functional requirements for a Customer Premise Equipment (CPE) telecommunications management system as set forth in Reference (c). The SUT is certified only with specified Alcatel-Lucent and Avaya digital switching systems listed within this document and listed on the Unified Capabilities (UC) Approved Products List (APL). Testing was conducted using test procedures derived from Reference (d). No other configurations, features, or functions, except those cited within this report, are certified by the JITC. This certification expires upon changes that affect interoperability, but no later than three years from the date of Defense Information Assurance (IA)/Security Accreditation Working Group (DSAWG) accreditation.
3. This finding is based on interoperability testing conducted by JITC and DSAWG accreditation. Interoperability testing was conducted by JITC at the Global Information Grid Network Test Facility, Fort Huachuca, Arizona, from 10 through 19 February 2010. DSAWG granted accreditation on 14 June 2010 based on the security testing completed by DISA-led IA test teams and published in a separate report, Reference (e). The Certification Testing Summary (Enclosure 2) documents the test results and describes the test configuration.
4. The SUT is certified with all software versions of the digital switching systems depicted in Table 1 which are on the UC APL. The Functional Requirements used to evaluate the interoperability of the SUT and the interoperability statuses are depicted in Table 2.

Table 1. SUT Certified Switching System Configurations

Switch Name (See note 1.)	Network Management Functions	Interface
Avaya CS2100 ²	Configuration Management, Fault Management, Performance Management, and Automated Message Accounting	EIA-232 Serial Synchronous/Asynchronous ³
Avaya CS1000M, CS1000M-SG, Succession DSN M1 Option 61C, and Succession DSN M1 Option 81C ²	Configuration Management, Fault Management, Performance Management, and Automated Message Accounting	EIA-232 Serial Synchronous
Avaya CS1000E, CS1000M-Cabinet, CS1000M-Chassis, Succession DSN M1 Option 11C Cabinet, and Succession DSN M1 Option 11C chassis ²	Configuration Management, Fault Management, Performance Management, and Automated Message Accounting	EIA-232 Serial Synchronous
Alcatel-Lucent 5ESS, CDX, and 5ESS VCDX	Fault Management, Performance Management, and Automated Message Accounting	EIA-232 Serial Synchronous
Avaya S8710, S8720	Automated Message Accounting	IEEE 802.3u Ethernet

NOTES:

- The SUT is certified with all software versions of these digital switching systems which are listed on the UC APL with one exception: The SUT is certified with the Avaya CS2100 with the TDM interfaces only. This excludes VoIP end instruments and the MG9K IP Gateway.
- These switches were formerly Nortel products and may be listed on the UC APL under Nortel or Avaya.
- The synchronous serial interface was tested and only certified on the Avaya CS2100 (TDM Only) using an X.25 PAD for Automated Message Accounting.

LEGEND:

5ESS	Class 5 Electronic Switching System	IEEE	Institute of Electrical and Electronics Engineers
802.3u	Standard for carrier sense multiple access with collision detection at 100 Mbps	IP	Internet Protocol
APL	Approved Products List	M1	Meridian 1
CS	Communication Server	Mbps	Megabits per second
CDX	Compact Digital Exchange	MG9K	Media Gateway 9000
DCE	Data Circuit-terminating Equipment	SG	Single Group
DSN	Defense Switched Network	SUT	System Under Test
DTE	Data Terminal Equipment	TDM	Time Division Multiplexing
EIA	Electronic Industries Alliance	UC	Unified Capabilities
EIA-232	Standard for defining the mechanical and electrical characteristics for connecting DTE and DCE data communications devices	VCDX	Very Compact Digital Exchange
		VoIP	Voice over Internet Protocol

Table 2. SUT Functional Requirements and Interoperability Status

Interface	Critical	Certified	Functional Requirements	Status	UCR Reference
Serial EIA-232	No ¹	Yes	In accordance with EIA-232 (C)	Met	5.2.8.1
			Fault Management (C)	Met	5.2.8.3
			Configuration Management (Switch Access) (C)	Met	5.2.8.4
			Automated Message Accounting (C)	Met	5.2.8.5
			Performance Management (C)	Met	5.2.8.6
IEEE 802.3u Ethernet	No ¹	Yes	In Accordance with IEEE 802.3u (C)	Met ²	5.2.8.1
			Automated Message Accounting (C)	Met	5.2.8.5
	Yes	Yes	Security (R)	See note 3.	Section 3

NOTES:

- The SUT is a CPE device that provides network monitoring functions. Therefore, the SUT interfaces are based on the UCR, section 5.2.8.1. The Network Management interoperability requirement can be met with any of the following interfaces: Ethernet, asynchronous serial, or synchronous serial.
- In accordance with the UCR, Table 5.3.1-3, the OAM IP packets shall be tagged with a DSCP value of 16 to 23. Using the WireShark IP capture tool to capture DSCP tagging within the SUT enclave between the Remote Management Client, Database Server, and Application Server, it was determined that the SUT tagged the OAM packets at 0 which does not meet this requirement. However, this discrepancy was previously reviewed by DISA and was adjudicated as having a minor operational impact.
- Security is tested by DISA-led Information Assurance test teams and published in a separate report, Reference (e).

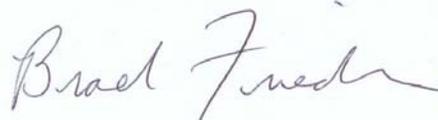
Table 2. SUT Functional Requirements and Interoperability Status (continued)

LEGEND:	
802.3u	Standard for carrier sense multiple access with collision detection at 100 Mbps
C	Conditional
CPE	Customer Premises Equipment
DCE	Data Circuit-terminating Equipment
DISA	Defense Information Systems Agency
DSCP	Differentiated Services Code Point
DTE	Data Terminal Equipment
EIA	Electronic Industries Alliance
EIA-232	Standard for defining the mechanical and electrical characteristics for connecting DTE and DCE data communications devices
IEEE	Institute of Electrical and Electronics Engineers
IP	Internet Protocol
Mbps	Megabits per second
OAM	Operational Administration and Maintenance
R	Required
SUT	System Under Test
UCR	Unified Capabilities Requirements

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), or <http://199.208.204.125> (SIPRNet). 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.

6. The JITC point of contact is Ms. Anita Mananquil, DSN 5389-5164, commercial (520) 538-5164, FAX DSN 879-4347, or e-mail to Anita.Mananquil@disa.mil. The JITC's mailing address is P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The tracking number for the SUT is 0923001.

FOR THE COMMANDER:



for RICHARD A. MEADOR
Chief
Battlespace Communications Portfolio

2 Enclosures a/s

JITC Memo, JTE, Special Interoperability Test Certification of K&R Custom Software Version 5.3

Distribution (electronic mail):

Joint Staff J-6

Joint Interoperability Test Command, Liaison, TE3/JT1

Office of Chief of Naval Operations, CNO N6F2

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DOT&E, Net-Centric Systems and Naval Warfare

U.S. Coast Guard, CG-64

Defense Intelligence Agency

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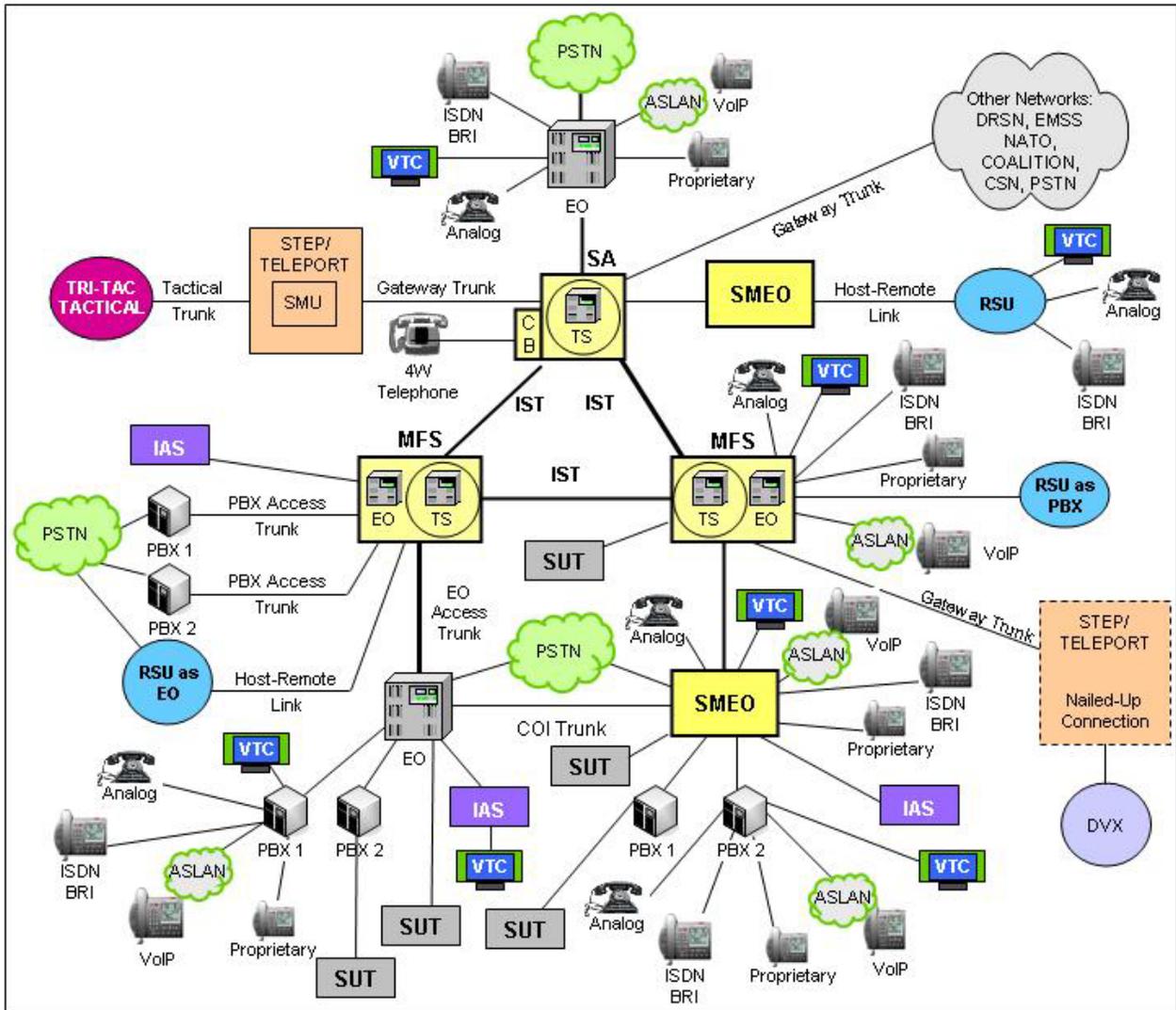
Defense Information Systems Agency, GS23

ADDITIONAL REFERENCES

- (c) Office of the Assistant Secretary of Defense, "Department of Defense Unified Capabilities Requirements 2008," 22 January 2009
- (d) Joint Interoperability Test Command, "Defense Switched Network Generic Switch Test Plan (GSTP) Change 2," 2 October 2006
- (e) Joint Interoperability Test Command, Memo, "Information Assurance (IA) Assessment of K&R Custom Software Telecommunications Management System (TMS) Version (V)5.3 (Tracking Number 0923001)," 14 June 2010

CERTIFICATION TESTING SUMMARY

- 1. SYSTEM TITLE.** K&R Custom Software Version 5.3; hereinafter referred to as the system under test (SUT).
- 2. PROPONENT.** Directorate of Information Management (DOIM).
- 3. PROGRAM MANAGER.** Mr. Glenn A. Fisher, DOIM, Jackson Ave, Building 1387, Fort Eustis, Virginia, 23604, e-mail: Glenn.a.fisher@us.army.mil.
- 4. TESTER.** Joint Interoperability Test Command (JITC), Fort Huachuca, Arizona.
- 5. SYSTEM UNDER TEST DESCRIPTION.** The SUT is a rack-mounted Enterprise Operations Support System (EOSS) that provides Network Management (NM) for organizations and providers by allowing Fault Management, Configuration Management, Automated Message Accounting, and Performance Management information to be collected. The SUT is a modular, cross-linked software package. The system has been designed for (and fielded solely to) Department of Defense (DoD) sites to meet the following needs: Billing, Work Orders and Trouble Calls, Plant/Cable Records, Traffic Studies, Emergency 911 (E911) Export, Switch Interface, Alarm Monitoring, and Electronic Directory (ELDIR). The SUT can operate on both Time Division Multiplexing- (TDM) and Internet Protocol-(IP) based networks. The system interfaces with a variety of current DoD telecommunication switches and network architectures.
- 6. OPERATIONAL ARCHITECTURE.** The Unified Capabilities Requirements (UCR) Defense Switched Network (DSN) architecture in Figure 2-1 depicts the relationship of the SUT to the DSN switches.



LEGEND:

4W	4-Wire	NATO	North Atlantic Treaty Organization
ASLAN	Assured Services Local Area Network	PBX	Private Branch Exchange
BRI	Basic Rate Interface	PBX 1	Private Branch Exchange 1
CB	Channel Bank	PBX 2	Private Branch Exchange 2
COI	Community of Interest	PSTN	Public Switched Telephone Network
CSN	Canadian Switch Network	RSU	Remote Switching Unit
DRSN	Defense Red Switch Network	SA	Standalone
DSN	Defense Switched Network	SMEO	Small End Office
DVX	Deployable Voice Exchange	SMU	Switched Multiplex Unit
EMSS	Enhanced Mobile Satellite System	STEP	Standardized Tactical Entry Point
EO	End Office	SUT	System Under Test
IAS	Integrated Access Switch	Tri-Tac	Tri-Service Tactical Communications Program
ISDN	Integrated Services Digital Network	TS	Tandem Switch
IST	Interswitch Trunk	VoIP	Voice over Internet Protocol
MFS	Multifunction Switch	VTC	Video Teleconferencing

Figure 2-1. DSN Architecture

7. REQUIRED SYSTEM INTERFACES. Requirements specific to the SUT and interoperability results are listed in Table 2-1. These requirements are derived from UCR Interface and Functional Requirements (FRs) verified through JITC testing. The SUT is certified with all software versions of the digital switching systems depicted in Table 2-2 which are on the UC APL.

Table 2-1. SUT Functional Requirements and Interoperability Status

Interface	Critical	Certified	Functional Requirements	Status	UCR Reference
Serial EIA-232	No ¹	Yes	In accordance with EIA-232 (C)	Met	5.2.8.1
			Fault Management (C)	Met	5.2.8.3
			Configuration Management (Switch Access) (C)	Met	5.2.8.4
			Automated Message Accounting (C)	Met	5.2.8.5
			Performance Management (C)	Met	5.2.8.6
IEEE 802.3u Ethernet	No ¹	Yes	In Accordance with IEEE 802.3u (C)	Met ²	5.2.8.1
			Automated Message Accounting (C)	Met	5.2.8.5
	Yes	Yes	Security (R)	See note 3.	Section 3

NOTES:

- The SUT is a CPE device that provides network monitoring functions. Therefore, the SUT interfaces are based on the UCR, section 5.2.8.1. The Network Management interoperability requirement can be met with any of the following interfaces: Ethernet, asynchronous serial, or synchronous serial.
- In accordance with the UCR, Table 5.3.1-3, the OAM IP packets shall be tagged with a DSCP value of 16 to 23. Using the WireShark IP capture tool to capture DSCP tagging within the SUT enclave between the Remote Management Client, Database Server, and Application Server, it was determined that the SUT tagged the OAM packets at 0 which does not meet this requirement. However, this discrepancy was previously reviewed by DISA and was adjudicated as having a minor operational impact.
- Security is tested by DISA-led Information Assurance test teams and published in a separate report, Reference (e).

LEGEND:

802.3u	Standard for carrier sense multiple access with collision detection at 100 Mbps	EIA-232	Standard for defining the mechanical and electrical characteristics for connecting DTE and DCE data communications devices
C	Conditional	IEEE	Institute of Electrical and Electronics Engineers
CPE	Customer Premises Equipment	IP	Internet Protocol
DCE	Data Circuit-terminating Equipment	Mbps	Megabits per second
DISA	Defense Information Systems Agency	OAM	Operational Administration and Maintenance
DSCP	Differentiated Services Code Point	R	Required
DTE	Data Terminal Equipment	SUT	System Under Test
EIA	Electronic Industries Alliance	UCR	Unified Capabilities Requirements

Table 2-2. SUT Certified Switching System Configurations

Switch Name (See note 1.)	Network Management Functions	Interface
Avaya CS2100 ²	Configuration Management, Fault Management, Performance Management, and Automated Message Accounting	EIA-232 Serial Synchronous/Asynchronous ³
Avaya CS1000M, CS1000M-SG, Succession DSN M1 Option 61C, and Succession DSN M1 Option 81C ²	Configuration Management, Fault Management, Performance Management, and Automated Message Accounting	EIA-232 Serial Synchronous
Avaya CS1000E, CS1000M-Cabinet, CS1000M-Chassis, Succession DSN M1 Option 11C Cabinet, and Succession DSN M1 Option 11C chassis ²	Configuration Management, Fault Management, Performance Management, and Automated Message Accounting	EIA-232 Serial Synchronous

Table 2-2. SUT Certified Switching System Configurations (continued)

Switch Name (See note 1.)	Network Management Functions	Interface
Alcatel-Lucent 5ESS, CDX, and 5ESS VCDX	Fault Management, Performance Management, and Automated Message Accounting	EIA-232 Serial Synchronous
Avaya S8710, S8720	Automated Message Accounting	IEEE 802.3u Ethernet

NOTES:

- The SUT is certified with all software versions of these digital switching systems which are listed on the UC APL with one exception: The SUT is certified with the Avaya CS2100 with the TDM interfaces only. This excludes VoIP end instruments and the MG9K IP Gateway.
- These switches were formerly Nortel products and may be listed on the UC APL under Nortel or Avaya.
- The synchronous serial interface was tested and only certified on the Avaya CS2100 (TDM Only) using an X.25 PAD for Automated Message Accounting.

LEGEND:

5ESS	Class 5 Electronic Switching System	IEEE	Institute of Electrical and Electronics Engineers
802.3u	Standard for carrier sense multiple access with collision detection at 100 Mbps	IP	Internet Protocol
APL	Approved Products List	M1	Meridian 1
CS	Communication Server	Mbps	Megabits per second
CDX	Compact Digital Exchange	MG9K	Media Gateway 9000
DCE	Data Circuit-terminating Equipment	SG	Single Group
DSN	Defense Switched Network	SUT	System Under Test
DTE	Data Terminal Equipment	TDM	Time Division Multiplexing
EIA	Electronic Industries Alliance	UC	Unified Capabilities
EIA-232	Standard for defining the mechanical and electrical characteristics for connecting DTE and DCE data communications devices	VCDX	Very Compact Digital Exchange
		VoIP	Voice over Internet Protocol

8. TEST NETWORK DESCRIPTION. The SUT was tested at JITC's Global Information Grid Network Test Facility in a manner and configuration similar to that of the DSN operational environment. Testing the system's required functions and features was conducted using the test configurations depicted in Figures 2-2 through 2-5. Figure 2-2 depicts the Alcatel-Lucent Class 5 Electronic Switching System (5ESS), 5ESS Very Compact Digital Exchange (VCDX), and Compact Digital Exchange (CDX) serial interface test configuration. Figure 2-3 depicts Avaya S8710 IP interface test configuration. Figure 2-4 depicts the Avaya Communication Server (CS)2100 serial interface test configuration. Figure 2-5 depicts the Avaya CS1000M serial interface test configuration.

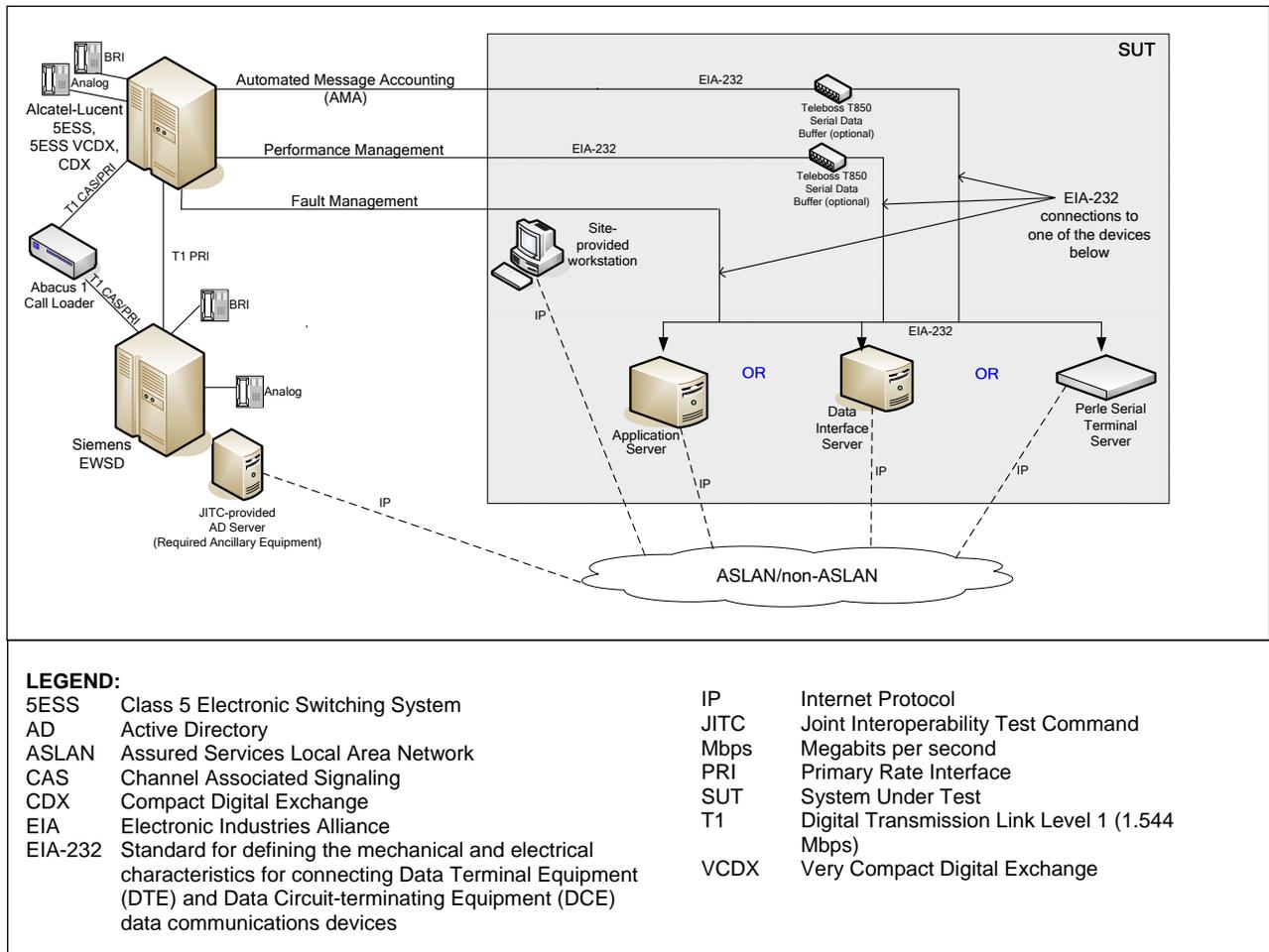


Figure 2-2. SUT Serial Interface Test Configuration with the Alcatel-Lucent 5ESS, 5ESS VCDX, and CDX

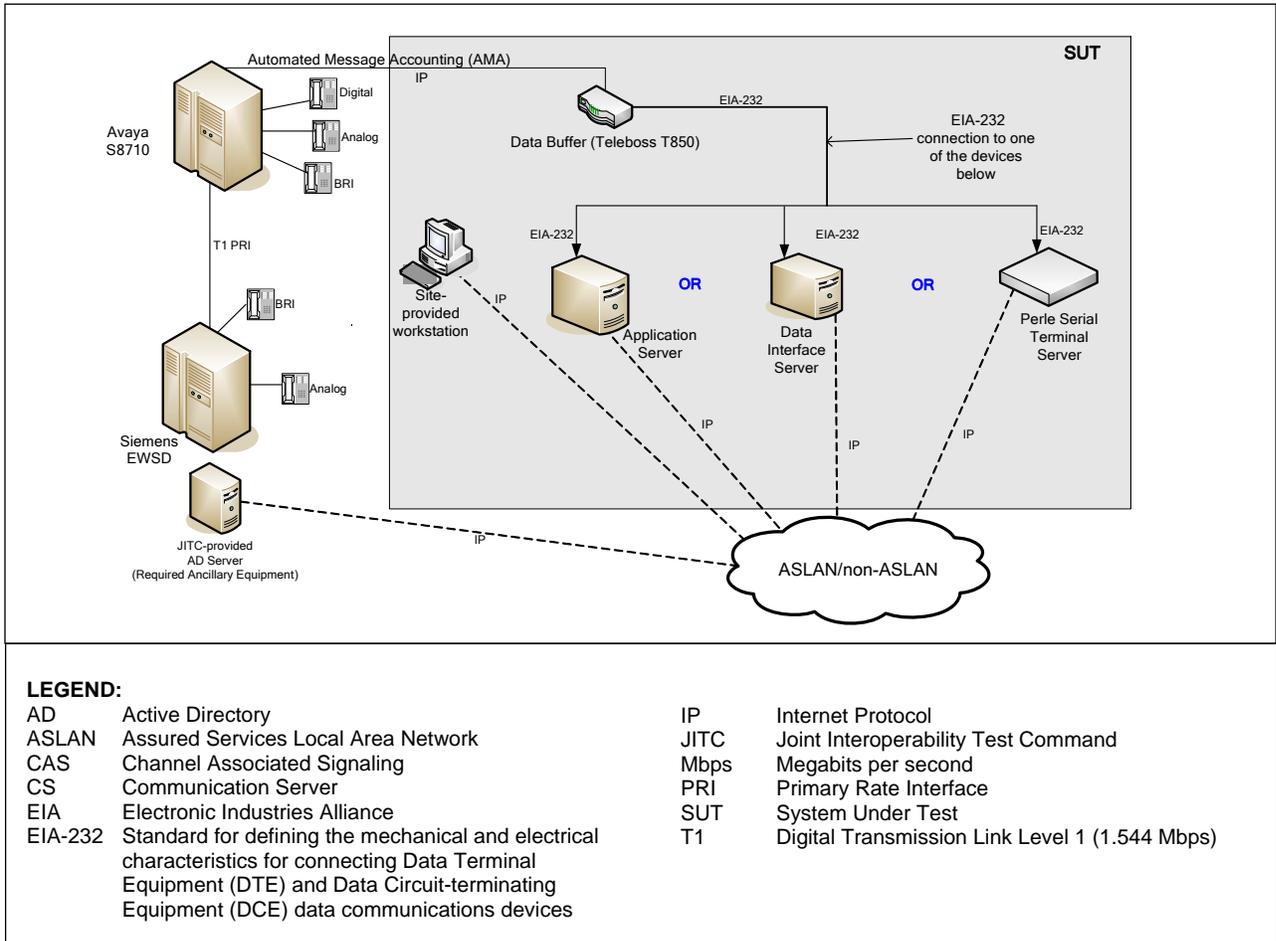
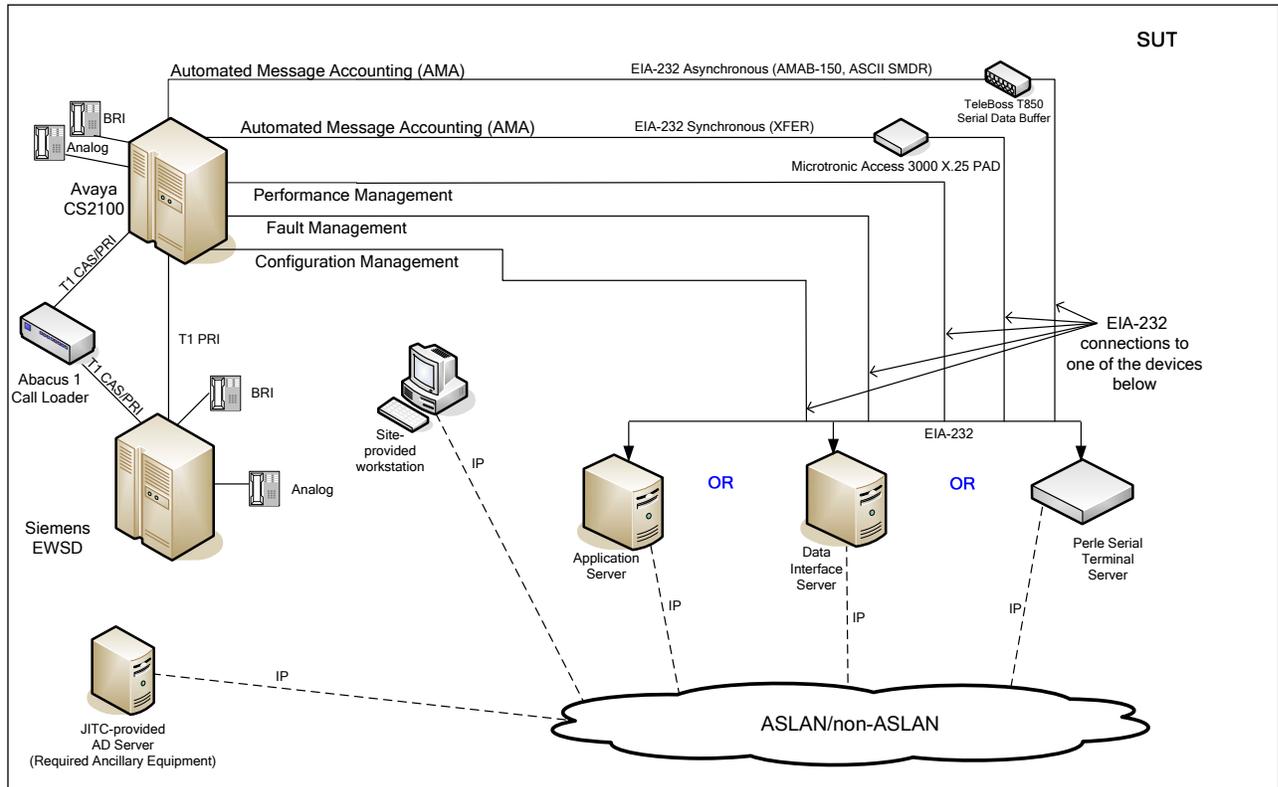


Figure 2-3. SUT Serial Interface Test Configuration with the Avaya S8710



NOTE: The SUT is certified with the Avaya CS2100 with the TDM interfaces only. This excludes VoIP end instruments and the MG9K IP Gateway.

LEGEND:

AD	Active Directory	JITC	Joint Interoperability Test Command
ASCII	American Standard Code for Information Interchange	IP	Internet Protocol
ASLAN	Assured Services Local Area Network	Mbps	Megabits per second
CAS	Channel Associated Signaling	MG9K	Media Gateway 9000
CS	Communication Sever	PRI	Primary Rate Interface
EIA	Electronic Industries Alliance	SMDR	Station Message Detail Recording
EIA-232	Standard for defining the mechanical and electrical characteristics for connecting Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) data communications devices	SUT	System Under Test
		T1	Digital Transmission Link Level 1 (1.544 Mbps)
		TDM	Time Division Multiplexing
		VoIP	Voice over Internet Protocol

Figure 2-4. SUT IP Interface Test Configuration with the Avaya CS2100

9. SYSTEM CONFIGURATIONS. Table 2-2 provides the system configurations, hardware, and software components tested with the SUT. The SUT was tested in an operationally realistic environment to determine interoperability with a complement of DSN switches noted in Table 2-2. Table 2-2 lists the DSN switches which depict the tested configuration and is not intended to identify the only switches that are certified with the SUT. The SUT is certified with switching systems listed in Table 2-3 which are on the Unified Capabilities (UC) Approved Products List (APL).

Table 2-2. Tested System Configurations

System Name		Hardware/Software Release	
Avaya S8710		Communication Manager (CM) 4.0 (R014x.00.2.732.1: Super Patch 16538)	
Alcatel-Lucent 5ESS		5E16.2 Broadcast Warning Message (BWM) 08-0010	
Avaya CS2100		Succession Enterprise (SE) 09.1	
Avaya CS1000M		5.0	
SUT	K&R Custom Software v5. 3	Hardware	Software/Firmware
		Windows XP SP2 or Vista 32-bit Business (Site-provided Workstation PC and both operating system platforms were tested)	Windows XP SP2 or Vista 32-bit Business
			Internet Explorer 8 (Web Browser)
			Symantec Endpoint
			K&R TMS v5.3/Kerridge KCML Client
		Dell PowerEdge R200Server (Application Server)	Tumbleweed Ver. 4.10.0.344
			Windows Server 2003 Standard Edition R2
			Internet Explorer 8 (6.0.26 or Higher)
			Microsoft IIS Web Server Version 6.0
			FIPS 140-2 Certified Encryption Modules Library
			Acrobat Reader
			K&R TMS v5.3/Kerridge KCML Server
			Kerridge KCML ODBC Server
			Kerridge KCML Client
			Perle Trueport Ver. 6.3.3.1
		Dell PowerEdge R410 Server (Data Interface Server)	Symantec Endpoint
Tumbleweed Ver. 4.10.0.344			
Windows Server 2003 Enterprise Edition R2			
K&R TMS v5.3/Kerridge KCML Client			
Perle Serial Terminal Server	Logger32 Ver. 4.0		
Microtronix Access 3000 X.25 Pad	Symantec Endpoint		
Asentria Teleboss T850 Serial Data Buffer	Ver. 4.0.G5		
	Ver. 7.03-8		
	Ver. 2.05.492		
LEGEND:			
5ESS	Class 5 Electronic Switching System	TMS	Telecommunication Management System
CS	Communication Server	PC	Personal Computer
FIPS	Federal Information Processing Standard	SP	Service Pack
IIS	Internet Information Services	SUT	System Under Test
KCML	Kerridge C Macro Language	Ver	Version
ODBC	Open Database Connectivity	XP	Experience

10. TEST LIMITATIONS. None.

11. TEST RESULTS

a. Discussion. The SUT was tested using the test configurations shown in Figures 2-2 through 2-5. The Abacus 1 bulk call loader was configured to generate performance management traffic via the Avaya CS2100, Avaya CS1000M, Alcatel-Lucent 5ESS, and the Avaya S8710. This data was pushed to the SUT, then the SUT

was able to accurately parse the traffic data and formulate a report. To test and generate Call Detail Recording (CDR) with the SUT individual phone were calls were placed from the respective switches as shown in the test configurations to simulate toll calls. The SUT was configured to poll the respective CDR records, parse the data, and then display it on either the Server or Workstation PC and save it to a file. The CDR data was adequately polled by the SUT with no noted interoperability problems. The configuration management function was tested with the SUT via the respective switches. Once connected to the switch, the SUT was able to log in and configure the respective switches using command lines through an Automated Switch Interface (ASI). When logged-in to the respective digital switching system, the SUT was able to display information, or apply changes such as line assignments or terminations emulating the local maintenance terminal. To test fault management with the SUT, manual faults were invoked on the respective switches and the appropriate alarm was generated to the SUT near real time. The requirements listed in the UCR, section 5.2.8, are detailed as Network Management (NM) requirements for DSN switches. The SUT was tested with these requirements as the NM system connected to the DSN switches.

(1) In accordance with the UCR, section 5.2.8.1, DSN switching systems shall provide DSN NM data to the Advanced DSN Integrated Management Support System (ADIMSS) via one of the three following physical interfaces: Ethernet, serial asynchronous (Electronic Industries Alliance [EIA]-232, or serial synchronous International Telecommunication Union - Telecommunication Standardization Sector [ITU-T] X.25. The SUT, as a telecommunications management system, met all critical interoperability certification requirements for physical interfaces with Ethernet and EIA-232.

(2) In accordance with the UCR, section 5.2.8.3, DSN switching systems shall detect fault (alarm) conditions and generate alarm notifications. The alarm messages must be sent to the assigned NM alarm channel in near-realtime. No alarm restriction/filtering is necessary. In addition to the data formats in UCR, section 5.2.8.1, alarms may be sent as Simple Network Management Protocol (SNMP). The SUT as a telecommunications management system met all critical interoperability certification requirements in accordance with the UCR with an EIA-232 interface.

(3) In accordance with the UCR, section 5.2.8.4, Configuration Management in a switching system shall be in accordance with Telcordia Technologies GR-472-CORE, Network Element Configuration Management, Revision 2, Feb. 1999, Section 4. The SUT met all critical interoperability requirements for Configuration Management by connecting to the switching systems remotely and using an ASI configured in a manner to adequately provide removal, installation, and changes to subscriber lines as necessary.

(4) In accordance with the UCR, section 5.2.8.5, the Automated Message Accounting (AMA) process in a switching system provides usage related data to perform customer billing and CDR. The SUT met all critical interoperability requirements for AMA by collecting, storing, and reporting all CDR data.

(5) In accordance with the UCR, section 5.2.8.6, Performance Management Data, shall contain the minimum DSN switch performance data requirements as seen in UCR, table 5.2.8-2. The SUT was able to display all required call traffic fields sent by the switch and met all critical interoperability requirements for Performance Management.

(6) In accordance with the UCR, Table 5.3.1-3, Operational Administration and Maintenance (OAM) IP packets shall be tagged with a Differentiated Services Code Point (DSCP) value of 16 to 23. Using the WireShark IP capture tool to capture DSCP tagging within the SUT enclave between the Remote Management Client, Database Server, and Application Server, it was determined that the SUT tagged the OAM packets at 0 which does not meet this requirement. However, this discrepancy was previously reviewed by DISA and was adjudicated as having a minor operational impact.

b. Test Summary. The SUT met the interface and functional requirements for a Customer Premise Equipment (CPE) telecommunications management system as set forth in Reference (c). The SUT is certified specifically with switching systems and their respective interfaces listed in Table 2-2 that are on the UC APL.

12. TESTS AND ANALYSIS REPORT. 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), or <http://199.208.204.125> (SIPRNet). Information related to DSN testing is on the Telecom Switched Services Interoperability (TSSI) website at <http://jitic.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.