



## DEFENSE INFORMATION SYSTEMS AGENCY

JOINT INTEROPERABILITY TEST COMMAND

P.O. BOX 12798

FORT HUACHUCA, ARIZONA 85670-2798

IN REPLY  
REFER TO: Networks and Transport Division (JTE)

**16 Feb 05**

### MEMORANDUM FOR DISTRIBUTION

**SUBJECT:** Special Interoperability Test Certification of the Data Track Technology Tracker 2720 and Tracker 2730 with Software Release 1.0.3 (Firmware Version 1) and Tracker 2700 with Software Release 10236 (Firmware Version 2)

**References:** (a) DOD Directive 4630.5, "Interoperability and Supportability of Information Technology (IT) and National Security Systems (NSS)," 5 May 2004  
(b) CJCSI 6212.01C, "Interoperability and Supportability of Information Technology and National Security Systems," 20 November 2003

1. References (a) and (b) establish the Defense Information Systems Agency, Joint Interoperability Test Command (JITC), as the responsible organization for interoperability test certification. Additional references are provided in enclosure 1.
2. Data Track Technology Tracker 2720 and Tracker 2730 with Software Release 1.0.3 (Firmware Version 1) and Tracker 2700 with Software Release 10236 (Firmware Version 2) are hereinafter referred to as the systems under test (SUT). The Tracker 2720 is a modem used in conjunction with either the Tracker 2700 or Tracker 2730. These devices are deployed in pairs using a matching encryption algorithm to secure the analog connection over the Defense Switched Network (DSN). The SUT met the interface and functional requirements for customer premise equipment devices set forth in appendix 7 of reference (c) and are certified for joint use within the DSN. The test discrepancies shown in the Certification Testing Summary (enclosure 2), which remained open after software patches were applied and regression testing was completed, have an overall minor operational impact. Testing was conducted using test procedures derived from reference (d). This certification expires upon changes that affect interoperability, but no later than three years from the date of this memorandum.
3. This certification is based on interoperability testing conducted by JITC at the Global Information Grid Network Test Facility, Fort Huachuca, AZ, from 5 through 10 November 2004, analysis of GSCR appendix 7 requirements, which were approved on 1 July 2004, and approval of vendor Letters of Compliance completed on 18 January 2005. Enclosure 2 documents the test results and describes the test configuration. Users should verify interoperability before deploying the SUT in an environment that varies significantly from that described.

JITC Memo, JTE, Special Interoperability Test Certification of the Data Track Technology Tracker 2720 and Tracker 2730 with Software Release 1.0.3 (Firmware Version 1) and Tracker 2700 with Software Release 10236 (Firmware Version 2)

4. The Functional Requirements used to evaluate the interoperability of the SUT and the interoperability statuses are indicated in table 1.

**Table 1. SUT Functional Requirements and Interoperability Status**

SUT	Interfaces	Critical	Certified	Functional Requirements	Status	GSCR Paragraph																																																								
Tracker 2700	Ethernet TCP/IP IEEE 802.3 (10BaseT)	No	Yes	Network Management (C)	Met	A.7.5																																																								
	EIA-232 Serial	No	Yes	ANSI/TIA/EIA-232-F (C)	Met	A7.5																																																								
	Tracker 2720 Tracker 2730	2-Wire Analog (GR-506-CORE)	No <sup>1</sup>	Yes	MLPP in accordance with GSCR, Section 3 (C)	Met	A7.5																																																							
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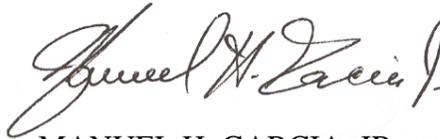
5. JITC distributes interoperability information via the JITC Electronic Report Distribution (ERD) system, which uses Unclassified-But-Sensitive Internet Protocol Router Network (NIPRNet) e-mail. More comprehensive interoperability status information is available via the JITC System Tracking Program (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),

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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>.

6. The JITC point of contact is Mr. Michael Napier, DSN 879-6787, commercial (520) 538-6787, FAX DSN 879-4347, or e-mail to [michael.napier@disa.mil](mailto:michael.napier@disa.mil).

FOR THE COMMANDER:



MANUEL H. GARCIA, JR.  
Acting Chief  
Networks and Transport Division

2 Enclosures a/s

Distribution:

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Office of Under Secretary of Defense, OUSD(AT&L), Room 3E144, 3070 Defense Pentagon,  
Washington, DC 20301  
US Joint Forces Command, J6I, C4 Plans and Policy, 1562 Mitscher Ave, Norfolk, VA 23551-  
2488  
Defense Intelligence Agency, ATTN: DS-CIO, Bldg 6000, Bolling AFB, Washington, DC  
20340-3342  
National Security Agency, ATTN: DT, Suite 6496, 9800 Savage Road, Fort Meade, MD  
20755-6496  
Commander, Defense Information Systems Agency (DISA), ATTN: GS23 (Mr. Osman), Room  
5w23, 5275 Leesburg Pike (RTE 7), Falls Church, VA 22041

## **ADDITIONAL REFERENCES**

- (c) Defense Information Systems Agency, "Department of Defense Voice Networks Generic Switching Center Requirements (GSCR)," 8 September 2003
- (d) Joint Interoperability Test Command, "Defense Switched Network Generic Switch Test Plan (GSTP)," 23 April 2004

## CERTIFICATION TESTING SUMMARY

- 1. SYSTEM TITLE.** Data Track Technology Tracker 2720 and Tracker 2730 with Software Release 1.0.3 (Firmware Version 1) and Tracker 2700 with Software Release 10236 (Firmware Version 2), hereinafter referred to as the systems under test (SUT).
- 2. PROPONENT.** Defense Information Systems Agency (DISA).
- 3. PROGRAM MANAGER.** Mr. Howard Osman, GS23, Room 5W23, 5275 Leesburg Pike, Falls Church, VA 22041, e-mail: Howard.Osman@disa.mil.
- 4. TESTER.** Joint Interoperability Test Command (JITC), Ft. Huachuca, AZ.
- 5. SYSTEM UNDER TEST DESCRIPTION.** The Data Track solution provides a secure connection to Internet Protocol (IP) enabled equipment and systems with Electronic Industries Alliance (EIA)-232 serial ports. The Tracker 2720 is a modem used in conjunction with either the Tracker 2700 or Tracker 2730. These devices are deployed in pairs using a matching encryption algorithm to secure the analog connection over the Defense Switched Network (DSN).

**a. Tracker 2720.** The Tracker 2720 is a modem that provides a secure connection from a remote Personal Computer to the Tracker 2700 or the Tracker 2730. The Tracker 2700 and 2730 use the same key as the 2720 to make a secure connection and establish a secure Virtual Private Network connection using Point-to-Point Tunneling Protocol.

**b. Tracker 2700.** The Tracker 2700 is a communications management device based on the Linux operating system that provides secure Local Area Network (LAN) and remote access to IP enabled equipment and systems with EIA-232 Serial ports.

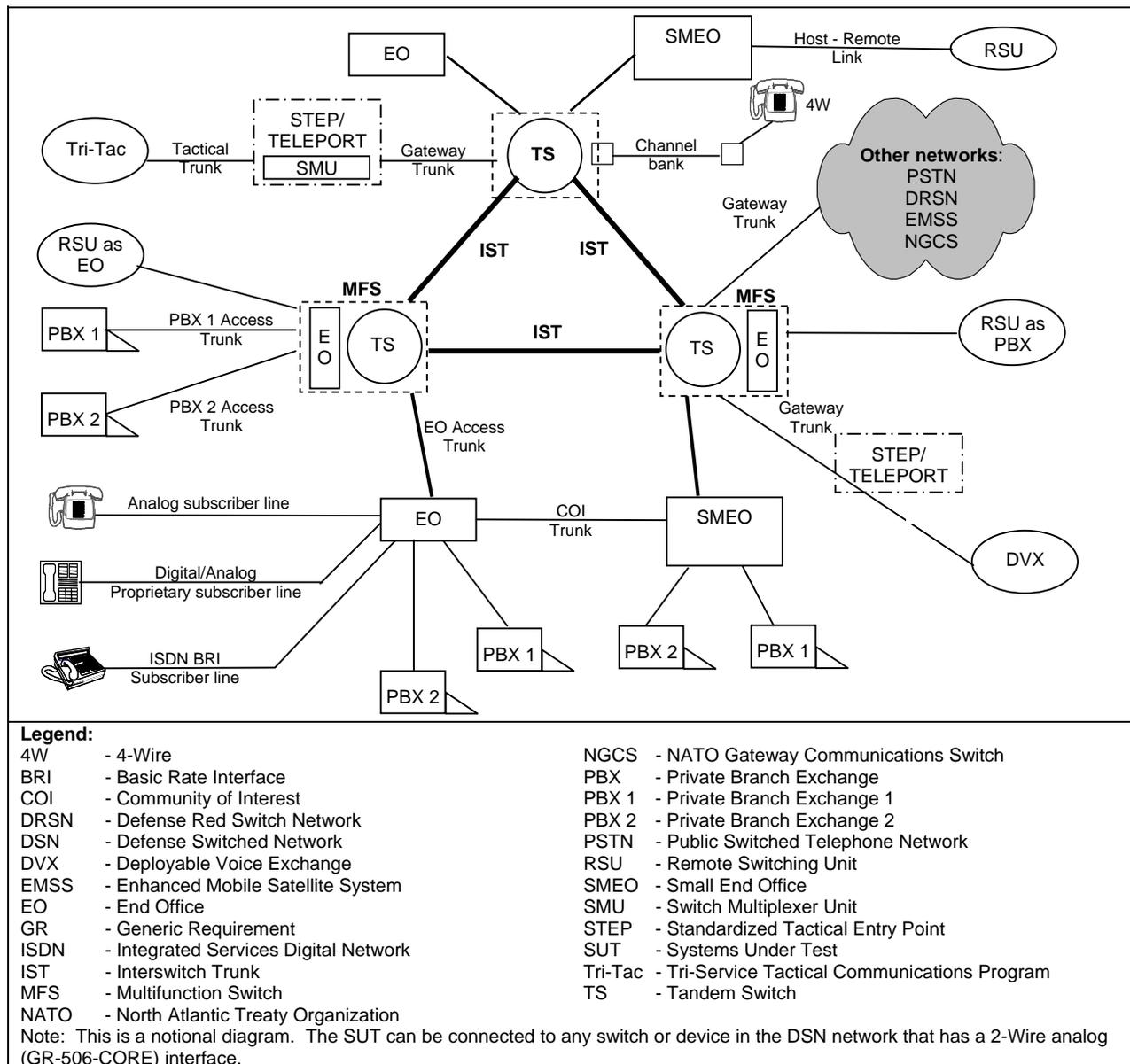
The Tracker 2700 can be accessed from a local console port, the LAN, or modem. The modem connection supports both text-based terminal access and dial-up networking. With a network connection to the Tracker (via the LAN or dial-up Point-to-Point Protocol) the remote user can use the Tracker as a gateway to equipment on the Tracker's local LAN.

The menu-based configuration divides the use of the Tracker 2700 into two main user roles: administrator and engineer. The administrator is responsible for configuring and managing the Tracker. The administrator sets up the connections and data logging features based on the requirements. The engineer is responsible for managing the equipment behind the Tracker. The engineer uses the Tracker as a means of accessing the equipment. The engineer selects the connection to the equipment based on the configuration done by the administrator.

The modem supports Calling Line Identification/Automatic Number Identification restricted answering for calls to the Tracker 2700. This identifies the calling number and will not answer the call unless it matches a user-specified list.

**c. Tracker 2730.** The Tracker 2730 is a modem that receives dial-in calls from the Tracker 2720 to securely connect to a local device.

**6. OPERATIONAL ARCHITECTURE.** Figure 2-1 illustrates the generic DSN architecture as depicted in the Generic Switching Center Requirements (GSCR). The SUT can be connected to any switch or device in the DSN network that has a 2-Wire analog (GR-506-CORE) interface.



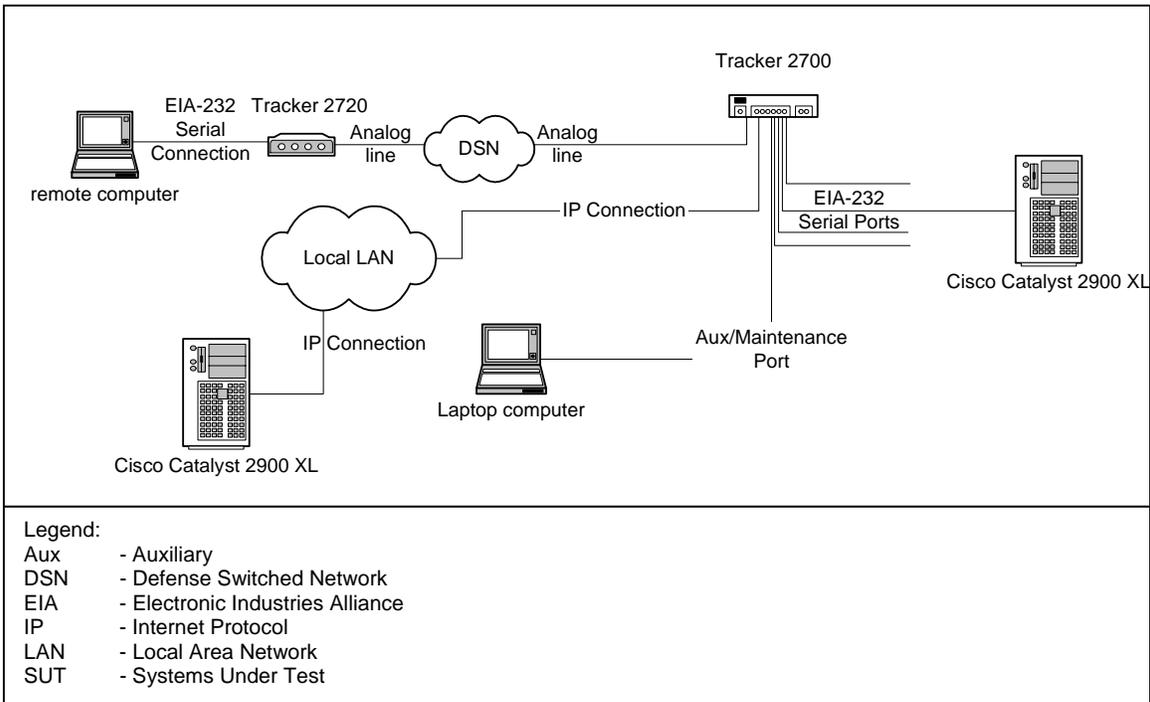
**Figure 2-1. DSN Architecture**

**7. REQUIRED SYSTEM INTERFACES.** Requirements specific to the SUT and interoperability results are listed in table 2-1. These requirements are derived from GSCR Interface and Functional Requirements verified through JITC testing and/or vendor submission of Letter(s) of Compliance.

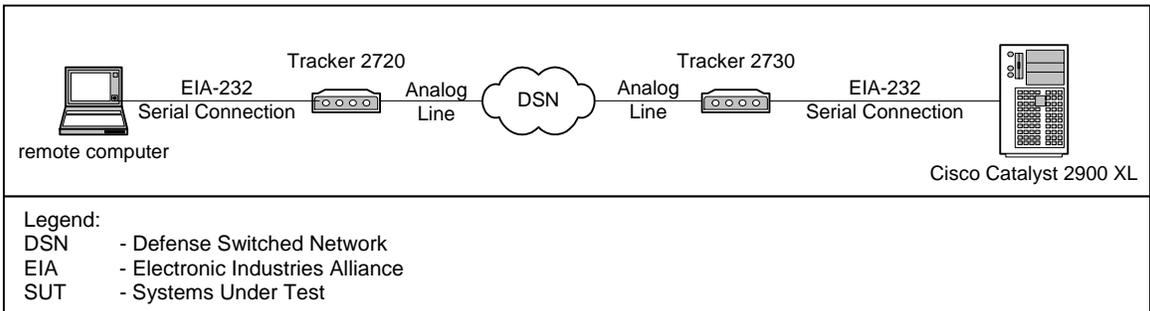
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	Tracker 2720 Tracker 2730	2-Wire Analog (GR-506-CORE)	No <sup>1</sup>	Yes	MLPP in accordance with GSCR, Section 3 (C)	Met	A7.5																																																							
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**8. TEST NETWORK 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. The test configurations depicted in figures 2-2 and 2-3 were used to test the system's interface functions and features.



**Figure 2-2. SUT Test Configuration with Tracker 2720 and Tracker 2700**



**Figure 2-3. SUT Test Configuration with Tracker 2720 and Tracker 2730**

**9. SYSTEM CONFIGURATIONS.** The tested system configurations are shown in table 2-2.

**Table 2-2. Tested System Configurations**

System Name	Software Release
Nortel Networks MSL-100	SE06
Cisco Catalyst 2900 XL	C2900XL-C3H25-M IOS 12.0(5.2)xu
SUT	
Data Track Technology Tracker 2700	Software Release 10236 (Firmware Version 2)
Data Track Technology Tracker 2720	Software Release 1.0.3 (Firmware Version 1)
Data Track Technology Tracker 2730	Software Release 1.0.3 (Firmware Version 1)
PC	Dell 7100 Server with Windows 2000 SP 4
<b>Legend:</b>	
IOS - Internetworking Operating System	SE - Succession Enterprise
MSL - Meridian Switching Load	SP - Service Pack
PC - Personal Computer	SUT - System Under Test

**10. TEST LIMITATIONS.** None.

**11. TEST RESULTS**

**a. Discussion.** The SUT basic secure functions were tested using the test configurations shown in figures 2-2 and 2-3. The various interface combinations and their respective test results are shown in table 2-3. Testing was conducted to insure that the SUT encryption was transparent to the established data calls and when released they were properly returned to an idle state ready for the next data call attempt.

**Table 2-3. Interface Combinations**

Origination Encryption	Interface	Destination Encryption	Interface	Data Device	Test Results
Tracker 2720	Analog	Tracker 2700	Serial	Cisco Catalyst 2900 XL	Passed
Tracker 2720	Analog	Tracker 2700	Internet Protocol	Cisco Catalyst 2900 XL	Passed
Tracker 2720	Analog	Tracker 2730	Serial	Cisco Catalyst 2900 XL	Passed

**b. Lessons Learned.** If the connection is broken between the Tracker 2720 and Tracker 2700 while the administrator port is in use, the Unix daemon that connects the Tracker 2700 serial ports or IP interface to the switch may not release the port. There is a timer that is supposed to terminate this daemon if the connection is not reset, but if the administrator port is in use the daemon is not stopped. Consequently, when the user reconnects to the Tracker 2700, the port is no longer available and the connection to the switch is refused. An administrator must connect to the Tracker 2700 and initiate a warm boot to clear the daemon when this happens. Under normal operations there should not be anyone connected to the administrator port. The operational impact is minor.

**c. Test Summary.** The SUT met the critical interoperability requirements for a customer premise device for the interfaces shown in table 2-1 as set forth in reference (c) and is certified for joint use within the DSN.

**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://jtc.fhu.disa.mil/tssi>.