

ADDITIONAL TEST RESOURCES

To support the test environment, the NEIL is equipped with an array of stand-alone test, measured, and diagnostic equipment (TMDE).

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NETWORK ENGINEERING & INTEGRATION LABORATORY (NEIL)



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***Increasing Combat Effectiveness
Through Interoperability***

Joint Interoperability Test Command

INTRODUCTION

Within the Department of Defense (DOD), the Joint Interoperability Test Command (JITC) has been given the responsibility of certifying that all Command, Control, Communications, Computers and Intelligence (C⁴I) systems are interoperable. To conduct interoperability certifications on DOD's C⁴I systems, the JITC is comprised of test laboratories, each with a specialized functional area.

The Network Engineering and Integration Laboratory (NEIL) specialized functional area is testing of the Defense Information Systems Network (DISN). The DISN comprises the Defense Switched Network (DSN), Defense Red Switch Network (DRSN), Unclassified but Sensitive Internet Protocol Router Network (NIPRNet), Secure Internet Protocol Router Network (SIPRNet), Joint Worldwide Intelligence Communications System (JWICS), and VideoTeleconferencing (VTC) Network. To complete its testing, the NEIL is also capable of connecting to other JITC Laboratories and other commercial facilities.

NEIL TESTING

The NEIL conducts conformance and interoperability certification testing of DISN components in response to requests from DOD, other government Agencies and commercial vendors.

TESTING OVERVIEW

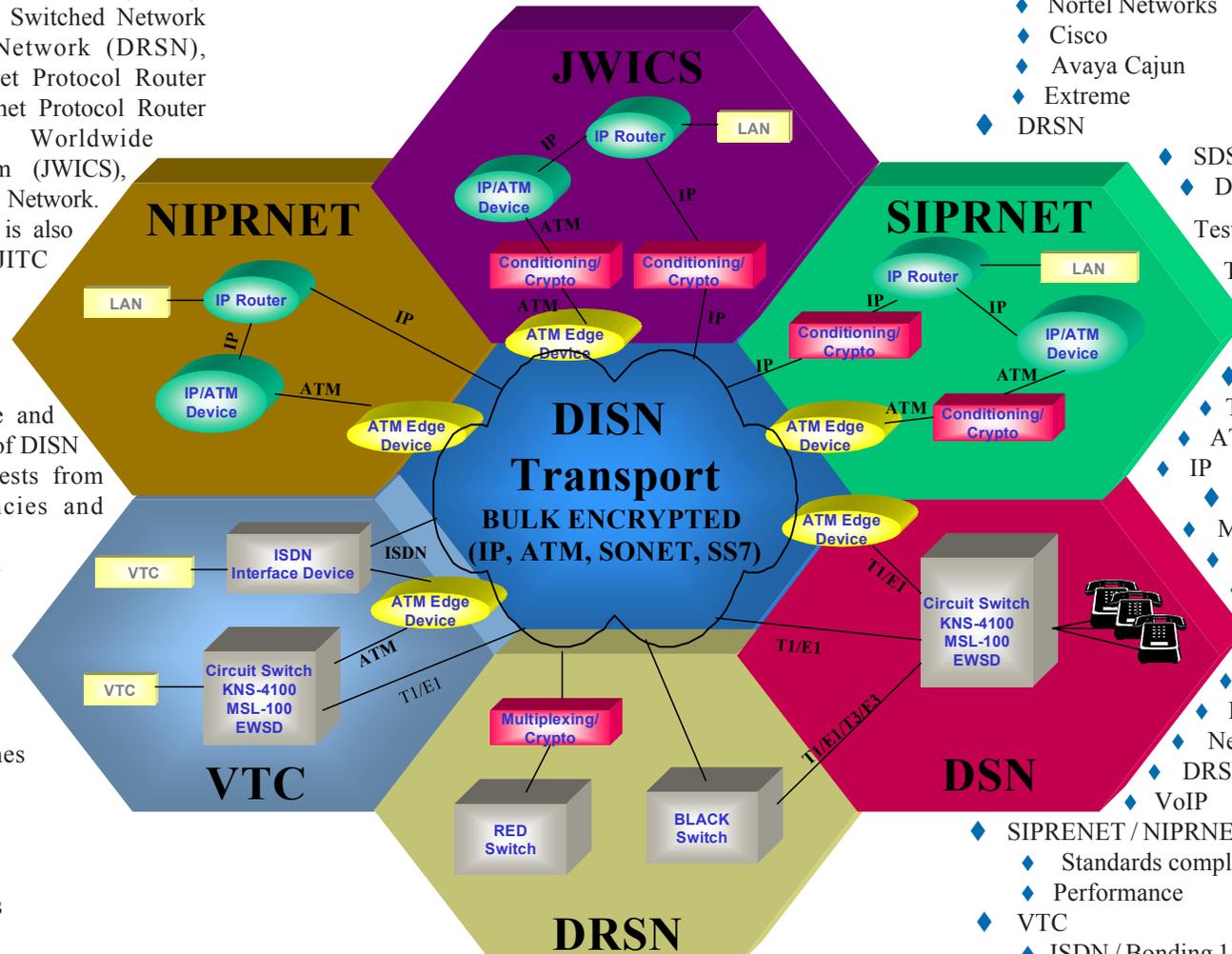
The test capabilities of the NEIL include:

Equipment Interoperability

- ◆ DISN Transport / Edge Switches
 - ◆ Marconi ASX 200BX
 - ◆ Marconi ASX 1100 / 1200
 - ◆ Alcatel 7470
 - ◆ Cisco LS 1010
 - ◆ NORTEL Passport switches
 - ◆ IDNX / Proxima
 - ◆ ECIDCME
 - ◆ Various multiplexers

- ◆ DSN Switches / Devices
 - ◆ Alcatel Omni PCX 4400 (US and Euro)
 - ◆ Avaya DEFINITY G3CSI, G3SI, G700, G8500 and MultiVantage S8700
 - ◆ Nortel Networks Meridian 1 Options 11C & 61C
 - ◆ Nortel Networks MSL-100
 - ◆ Siemens EWSD, KNS 4100, HIPATH 4000
 - ◆ TADIRAN Coral III PBX
 - ◆ NEC 2400/2000 PBXs
 - ◆ CISCO Call Manager 3.3(3)
 - ◆ Lucent 5ESS
 - ◆ REDCOM IGX
 - ◆ Nortel Broadband STP / Tekelec Eagle STP

- ◆ SIPRNet / NIPRNet / JWICS
 - ◆ Cisco 7500 / 2600 / 2500 series routers
 - ◆ Cisco Catalyst switches
 - ◆ Avaya Cajun 333T
 - ◆ Avaya Access Point 1000
 - ◆ TACLANE encryptor
 - ◆ FASTLANE encryptor
- ◆ VTC
 - ◆ Madge
 - ◆ Pictoretel
 - ◆ Polycom
 - ◆ Tandberg
- ◆ VoIP2LAN
 - ◆ Nortel Networks
 - ◆ Cisco
 - ◆ Avaya Cajun
 - ◆ Extreme
- ◆ DRSN



◆ SDS Family
 ◆ DSS Family
 Test Procedures
 The following is a representation of current procedures conducted in the NEIL:

- ◆ DISN Transport
- ◆ T1, T3, E1 and SONET
- ◆ ATM / DCME
- ◆ IP
- ◆ DSN
- ◆ MLPP
- ◆ System Interface Criteria
- ◆ Call Capacity / Quality
- ◆ Network Management
- ◆ ISDN / SS7
- ◆ Synchronization
- ◆ Reliability
- ◆ Network Integration
- ◆ DRSN and Tactical Interface
- ◆ VoIP

- ◆ SIPRNET / NIPRNET / JWICS
 - ◆ Standards compliancy
 - ◆ Performance
- ◆ VTC
 - ◆ ISDN / Bonding 1 (NX56 and NX64)
 - ◆ DSN Interoperability

NEIL Test Capabilities