Internet Protocols Testing Program (IPTP)

Briefing Overview:

WHO	is involved,	will be affected
WHAT	is happening,	does OCTL do
WHEN	will the program be ready,	will testing be mandatory
WHERE	is the program based,	will testing be done
WHY	is the program being established,	now
HOW	will test results be used,	does this relate to other efforts

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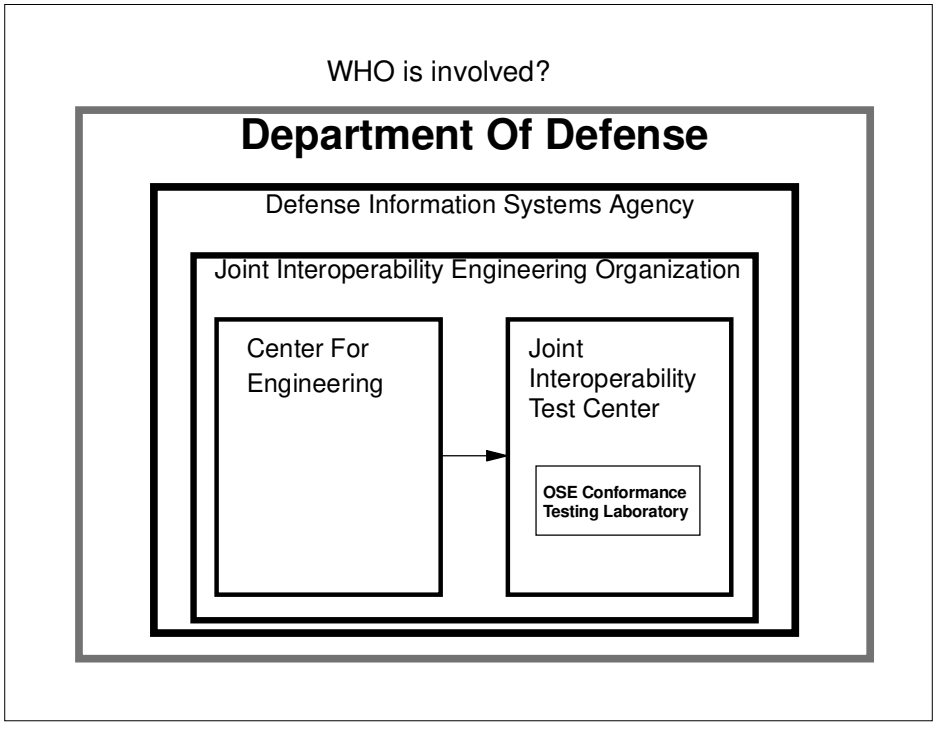
- DoD as a primary TCP/IP customer, wants conformance testing, to reduce the risk of non-interoperability because of the great need for 'plug and play' operation.



- The OCTL is validating the tester under tasking from the CFE, for use by the DoD

WHO will be affected?

OCTL - OSE Conformance Testing Laboratory
The OCTL will validate the tester and later will verify test results of other laboratories and maintain the register of validated products.

NVLAP - National Voluntary Laboratory Accreditation Program
The IPTP testing methods will be added to the list of existing U.S. Open Systems Protocols accredited test methods.

Conformance Testing Laboratories
will become accredited by NVLAP to test the DOD internet protocols

TCP/IP MOT and Product Vendors
will have their implementations tested at accredited laboratories (and if conformant, registered)

DOD Procurement Agents
will be required to select only registered products

- NVLAP is prepared to accredit qualifying laboratories to do the actual testing.
- After becoming accredited, a laboratory may accept clients who wish to sell their products to DOD.
- After the implementation has been tested, the product registration application package is sent to the OCTL.

WHAT is happening?

Two Parts:

Now: Establishment of the testing program
Ending with conformance testing laboratories accredited to test, using the validated MOT.

Later: Testing Program Underway
Ongoing testing and registration of products.

- MOT - Means Of Testing (test software)

WHAT does OCTL Do?

To help establish the Testing Program:

1. Validate the Abstract Test Suite (ATS)
   In this case, Traceability Indexes, against the Standards:

MIL-STD-1777 Internet Protocol	12 August 1983
MIL-STD-1778 Transmission Control Protocol	12 August 1983
MIL-STD-1780 File Transfer Protcol	10 May 1984
MIL-STD-1781 Simple Mail Transfer Protocol	10 May 1984
MIL-STD-1782 Telnet Protcol	10 May 1984

2. Validate the MOT
   Against the ATS, using same methods as for OSI MOTs

- MIL-STDS are listed in RFC 1600 along with instructions/contact info for obtaining.

WHAT does OCTL Do?

Once the Testing Program is established:

1. Verify test results of conformance testing laboratories
2. Validate additional MOTs or upgrades
3. Maintain the register of validated MOTs and products

- Register Recognition:
  Commercial
  State
  International (US, UK, Australia, Taiwan)

WHEN

Testing Program Ready: (Estimate) 1 Q FY 1995

When will testing be mandatory?
(trick question)

Testing has been mandatory since 1 June 1989, but has not been enforced because there was no testing program.

A revised policy is being developed by DISA for release by the office of the Secretary of Defense (C^3I) which is expected to require testing for DoD, within 60 to 90 days after the program is in place.

WHERE

1. JITC OCTL, Fort Huachuca, Az.
   - MOT validation
   - Product Registration Application (online)
   - Test laboratory report review
   - Register of validated products (online)

2. Product Testing
   - Conformance Testing Laboratory - various locations
   - (see list at end of handouts; more info available online)
   - some test labs perform testing at customer site

- FTP server with public access for the registers and related documents:

  huachuca-jitcosi.army.mil

  login: anonymous
  password: your complete email address

WHY

Why is the testing program being established?

Initial Requirement:
Memo from Assistant Secretary of Defense, 26 Aug 1988
(see attachment)

Why now?

Recent Developments:
Tester upgraded and ported to more widely used platform
Testing program to be modeled after GOSIP

Renewed Interest:
DoD as a primary TCP/IP customer, wants conformance testing, to reduce the risk of non-interoperability because of the great need for 'plug and play' operation.

HOW

How will test results be used?

Implementations of TCP, IP, TELNET, FTP, and SMTP which meet all the requirements of the testing program will be added to the register of validated TCP/IP products.

The register will be available for procurement agents when selecting TCP/IP products.

How does the testing program relate to other efforts?

New DOD profiles, additional standards adopted by DOD - As new profiles and/or standards become official, new MOTs may be developed (by anyone) and existing ones may be modified if necessary and revalidated, to allow for program expansion beyond the first 5 protocols.