

INTERESTED IN PKI?

If your organization is interested in PKE application testing or obtaining test certificates, please contact the JITC. The JITC's PKI services fulfill a crucial role in supporting the DOD PKI provide secure interoperable communications between DOD and its Federal, Allied, and commercial partners. JITC can help PKI customers better understand the implications associated with PKI deployment and utilization in applications, thereby ensuring the long-term success of the DOD PKI.



The Premier DOD PKI Test Facility

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***Increasing Combat Effectiveness
Through Interoperability***

THE DOD PUBLIC KEY INFRASTRUCTURE (PKI) TEST FACILITY



Joint Interoperability Test Command

JITC PKI VISION

- ◆ To be the premier DOD PKI test organization
- ◆ To provide unequaled support to DOD and its commercial partners
- ◆ To help successfully deploy a fully interoperable PKI

OVERVIEW

Many programs supporting the Department of Defense (DOD) missions require security services such as authentication, confidentiality, non-repudiation, and access control. To help address these security problems the DOD developed a Public Key Infrastructure (PKI). The DOD provides products and services that enhance the security of networked information systems and facilitate digital signatures.

To help ensure the long-term success of the DOD PKI, the Joint Interoperability Test Command (JITC) offers two major PKI services:

- ◆ DOD PKI Test Certificate Services
- ◆ Interoperability Certification of Public Key Enabled (PKE) Applications

In addition to these major services, the JITC PKI efforts are also able to support the following PKI related areas:

- ◆ Smart Card testing and support
- ◆ Exercise support and assessment of PKI and other IA areas

DOD PKI TEST CERTIFICATE SERVICES

The JITC PKI Test Certificate Lab provides test certificate services in support of DOD and commercial partners. The Defense Information Systems Agency (DISA) and PKI Program Management Office (PMO) established the JITC lab as the official test facility for the issuance of DOD PKI test certificates and help desk support.

Customers of the PKI Lab include:

- ◆ Commercial and government developers testing their products

- ◆ Services and Agencies training system administrators and end users
- ◆ JITC PKI test engineers performing Interoperability Certification of PKE Applications
- ◆ Commercial vendors demonstrating their products with the DOD PKI

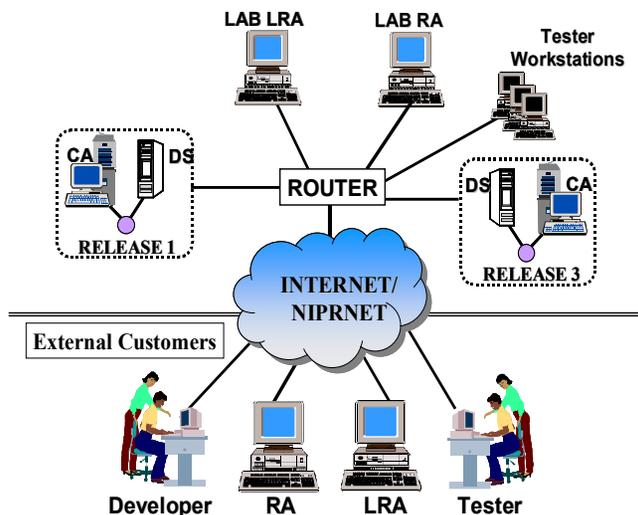
Products and services of the PKI Lab include:

- ◆ DOD PKI Test Certificates:
 - ◆ Registration Authority (RA)
 - ◆ Local Registration Authority (LRA)
 - ◆ End user
 - ◆ Server
- ◆ Directory Services (DS):
 - ◆ Certificate Revocation Lists (CRLs)
 - ◆ Help Desk Support

PKI Lab Environment

The JITC PKI Lab mirrors the operational DOD PKI and provides the same functionality. This allows development, testing, and training to occur in an environment separate from the production site. The current configuration of the lab is shown in the diagram below. The lab currently operates Release 1, 2, and 3 systems. The servers are operational 24 hours a day, 7 days a week.

JITC PKI LAB ENVIRONMENT



INTEROPERABILITY CERTIFICATION OF PK ENABLED (PKE) APPLICATIONS

Applications must be enabled to take advantage of the services a PKI offers. Without enabled applications, the infrastructure holds little value. It is essential that applications become enabled and utilize the infrastructure. However, enabling is a complicated task. Applications must be tested to ensure they are enabled correctly, leaving no security holes.

The DOD PKI PMO established the JITC PKE Certification Lab as an independent testing capability to perform interoperability testing on PKE applications. It is DOD policy that enabled applications be tested to ensure interoperability and compatibility with the DOD PKI. The lab supports this policy through the interoperability certification process.

The certification process is based on a master test plan containing all DOD PKE requirements and associated tests. This plan is used as a guideline for testing individual applications. Each PKE application is different and takes advantage of various PKI services; therefore, all DOD PKE requirements may or may not be applicable to every application. JITC works individually with each application to analyze and determine which of the requirements and corresponding tests apply.

What benefits do the JITC certification offer?

- ◆ Compliance with DOD policy
- ◆ Cost savings by using an established facility and process
- ◆ Knowledgeable and experienced test personnel
- ◆ Confidence that the application is interoperable with the DOD PKI
- ◆ Confidence that the application is properly and securely using the infrastructure

It is JITC policy to “Test for Success.” If problems occur during the test execution, JITC immediately contacts the application owner in an effort to work through the problem.