GSA U.S. General Services Administration

**PACS Head-End
Test Procedures**
VERSION 0.1.0

DRAFT

GSA FIPS 201 APPROVED

FIPS 201 EVALUATION PROGRAM

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Document History

Status	Version	Date	Comment	Audience
Draft	0.0.1	1/4/13	Document creation.	Limited
Draft	0.0.2	1/11/13	Edit based on full team review	Limited
Draft	0.0.3	1/13/13	Initial basic QA	Limited
Draft	0.0.4	1/17/13	QA fixes	Limited
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1   Overview

The Federal Information Processing Standard (FIPS) 201 Evaluation Program (EP) is a U.S. Government entity administered by the Office of Government-wide Policy (OGP), within the General Services Administration (GSA) agency. The goal of the FIPS 201 EP is to evaluate products and services against the requirements outlined in FIPS 201 and its supporting documents. The FIPS 201 EP is also charged with evaluation of products and services according to requirements from the Federal Identity, Credentialing and Access Management (FICAM) Program. The FICAM Testing Program encompasses both sets of requirements. The goal of the FICAM Testing Program is to provide the best known information on the conformance to standards, interoperability and security of products and services for implementation of FICAM-conformant systems and services throughout the federal government.

This document provides the detailed test procedures that need to be executed by the ICAM Test Lab in order to evaluate a PACS Head-End (henceforth referred to as "Product") against the subset of applicable requirements that need to be electronically tested for this category.

2   Testing Process

The Product must undergo an evaluation using all the evaluation criteria listed for this category prior to being deemed compliant. Only Products that have successfully completed the entire Approval Process and Testing Procedures will be designated as conformant to the FICAM Testing Program. This document provides details for the evaluation using the ICAM Lab Test Data Report approval mechanism.

A Lab Engineer follows the steps outlined below in order to test those requirements that have been identified to be electronically tested. The end result is a compilation of the observed behavior of the Product in the ICAM Lab Test Data Report.

For this category, the ICAM Test Lab will perform end-to-end system testing of the Product for compliance to *PACS Head-End Approval Procedure* R-HE-1 through R-HE-51. Testing will be done in accordance with the *FICAM PACS Master Test Procedures*.

3   Test Procedures for PACS Head-End

3.1   Requirements

PACS Head-End Approval Procedure Section 3.1 provides the requirements for the test procedures identified in this document.

3.2 *Test Components*

The following are the required test components to evaluate the Product:

1. Live PIV and PIV-I cards from various issuers.
2. ICAM Test Cards (detailed in *FICAM PACS Master Test Procedures* Section 1.3).
3. ICAM PKI infrastructure (detailed in *FICAM PACS Master Test Procedures* Section 1.4)
4. NIST PIV Test Cards.
5. DoD JITC CAC Test Cards.
6. Full system under test, encompassing:
   a. FICAM Reader;
   b. Validation System; and
   c. The Product.

3.3 *Installation and Set-up for Testing*

The Supplier shall provide installation and configuration support as appropriate to make their Product operational at the ICAM Test Lab. A Head-End cannot be tested independently. It must be tested as connected to a Reader and Validation System. The Supplier must coordinate all components necessary to support testing of the Product. The Supplier may leverage existing Validation Systems and associated Readers previously installed and operational at the ICAM Test Lab. The Supplier will be provided with an eight foot (8') table and four (4) 120 volt AC outlets. The Supplier shall be given one (1) Lab workday to demonstrate the Product's ability to meet the category's requirements.

3.4 *Test Cases*

The FICAM Testing Program performs end-to-end system testing in accordance with *FICAM PACS Master Test Procedures*. There are two possible test scenarios for a Product:

1. The Product is being tested with a previously-approved Validation System and Reader solution; or
2. The Product is being tested with an all new Validation System and Reader solution.

For scenario (1), the ICAM Test Lab will run all tests identified in *FICAM PACS Master Test Procedures* marked with an "H in the 'Components' column".

For scenario (2), the ICAM Test Lab will run all tests identified in *FICAM PACS Master Test Procedures*.