# **Validation System Test Procedures**

VERSION 0.1.0



DRAFT

## **FIPS 201 EVALUATION PROGRAM**

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Office of Government wide Policy Office of Technology Strategy Identity Management Division Washington, DC 20405

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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
Draft	0.0.5	1/20/13	QA	Limited
Draft	0.0.6	1/22/13	Added cryptographic requirements	Limited
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# **Document History**

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### 1 **1 Overview**

2 The Federal Information Processing Standard (FIPS) 201 Evaluation Program (EP) is a

3 U.S. Government entity administered by the Office of Government-wide Policy (OGP),

4 within the General Services Administration (GSA) agency. The goal of the FIPS 201 EP

5 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

8 Management (FICAM) Program. The FICAM Testing Program encompasses both sets of

9 requirements. The goal of the FICAM Testing Program is to provide the best known

10 information on the conformance to standards, interoperability and security of products

- 11 and services for implementation of FICAM-conformant systems and services throughout
- 12 the federal government.
- 13

14 This document provides the detailed test procedures that need to be executed by the

15 ICAM Test Lab in order to evaluate a Validation System (henceforth referred to as

- 16 "Product") against the subset of applicable requirements that need to be electronically
- 17 tested for this category.

## 18 2 Testing Process

19 The Product must undergo an evaluation using all the evaluation criteria listed for this

20 category prior to being deemed compliant. Only Products that have successfully

21 completed the entire Approval Process and Testing Procedures will be designated as

22 conformant to the FICAM Testing Program. To this effect, this document only provides

23 details for the evaluation using the ICAM Lab Test Data Report approval mechanism.

24

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.

28

29 For this category, the ICAM Test Lab will perform end-to-end system testing of the

30 Product for compliance to PACS Validation System Approval Procedure R-VS-1 through

- 31 R-VS-152. Testing will be done in accordance with the FICAM PACS Master Test
- 32 Procedures.
- 33

### **34 3 Test Procedures for Validation System**

#### 35 3.1 Requirements

PACS Validation System Approval Procedure Section 3.1 provides the requirements for
the test procedures identified in this document.

### 38 3.2 Test Components

- 39 The following are the required test components to evaluate the Product:
- 40
- 41 1. Live PIV and PIV-I cards from various issuers.
- 42 2. ICAM Test Cards (detailed in *FICAM PACS Master Test Procedures* Section 1.3).
- 43 3. ICAM PKI infrastructure (detailed in *FICAM PACS Master Test Procedures* Section 1.4).
- 45 4. NIST PIV Test Cards.
- 46 5. DoD JITC CAC Test Cards.
- 47 6. Full system under test, encompassing
- 48 a. FICAM Reader;
- 49 b. The Product; and
- 50 c. PACS Head-End

### 51 3.3 Installation and Set-up for Testing

- 52 The Supplier shall provide installation and configuration support as appropriate to make
- 53 their Product operational at the ICAM Test Lab. The Product cannot be tested
- 54 independently. It must be tested as connected to a Reader and PACS Head-End. The
- 55 Supplier must coordinate all components necessary to support testing of the Product. The
- 56 Supplier may leverage existing PACS head-ends previously installed and operational at
- 57 the ICAM Test Lab. The Supplier will be provided with an eight foot (8') table and four
- 58 (4) 120 volt AC outlets. The Supplier shall be given one (1) Lab workday to demonstrate
- 59 the Product's ability to meet the category's requirements.

### 60 3.4 Test Cases

- 61 The FICAM Testing Program performs end-to-end system testing in accordance with
- 62 FICAM PACS Master Test Procedures. For this category, the ICAM Test Lab will
- 63 perform end-to-end system testing of the Product for compliance to *PACS Validation*
- 64 System Approval Procedure R-VS-1 through R-VS-152. In addition, all tests identified
- 65 in FICAM PACS Master Test Procedures labeled with a "V" in the 'Components' column
- 66 will be used to validate compliance to the requirements.