Template Generator Test Procedure VERSION 2.0.0

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1 Overview

Homeland Security Presidential Directive-12 (HSPD-12) - "Policy for a Common Identification Standard for Federal Employees and Contractors" directed the promulgation of a new Federal standard for a secure and reliable form of identification issued by all Federal Agencies to their employees and contractors.

In addition to derived test requirements developed to test conformance to the NIST standard, GSA has established interoperability and performance metrics to further determine product suitability. Vendors whose products and services are deemed to be conformant with NIST standards and the GSA interoperability and performance criteria will be eligible to sell their products and services to the Federal Government.

1.1 Identification

This document provides the detailed test procedure that needs to be executed by the Lab in order to evaluate the Template Generator (henceforth referred to as the Product) against the subset of applicable requirements that need to be electronically tested for this category.

2 Testing Process

As previously mentioned, this document prescribes detailed test steps that need to be executed in order to test the requirements applicable for this category. Please note that conformance to the tests specified in this document will not result in the Product being compliant to the applicable requirements of FIPS 201. The Product must undergo an evaluation using all the evaluation criteria listed for that category prior to being deemed as compliant. Only products that have successfully completed the entire Approval Process will be designated as conformant to the Standard. To this effect, this document only provides details for the evaluation using the 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 Lab Test Data Report.

Section 3 provides the test procedures that need to be executed for evaluating the Product as conformant to the requirements of FIPS 201.

3 Test Procedure for Template Generator

3.1 Requirements

The following table provides a reference to the requirements that need to be electronically tested within the Lab as outlined in the Approval Procedures document for the Product. The test cases that are used to check compliance to the requirements are cross-referenced in the table below.

Identifier #	Requirement Description	Source	Test Case #
T-GEN.7	The fingerprint template created by the Product passes the SP 800-85B data conformance tool tests for fingerprint biometric data conformance ¹ .	Derived	T-GEN-TP.1

Table 1 - Applicable Requirements

3.2 Test Components

Table 2 provides the details of all the components required by the Lab to execute this test procedure. Based on the different test cases, different components may be required to execute different test cases.

#	Component	Component Details	Identifier
1	Host System	Includes a Workstation with the SP 800-	HOST
		85B data conformance tool installed and	
		operational	

Table 2 - Test Procedure: Components

3.3 Test Cases

This section discusses the various test cases that are needed to test the Template Generator against the requirements mentioned above.

3.3.1 Test Case T-GEN-TP.1

3.3.1.1 Purpose

The purpose of this test is to verify whether the biometric fingerprint template (INCITS 378) is conformant to Table 3 of SP 800-76.

3.3.1.2 Test Setup

Equipment:	The following components are necessary for executing this test
	case:

¹ CBEFF header and signature requirements are considered to be out of scope for Template Generators.

	• HOST
Preparation:	■ Save the template file provided by the Supplier as part of the application package. Make sure the file is named CARD_HOLDER_FINGERPRINTS. The file should be put into the directory that is specified in Test Settings → Output Locations → Configuration Main Path in the 800-85B data conformance tool.

3.3.1.3 Test Process

Test Steps:	1.	Click on the Test Manager tab and under the	
	2. 3.	CHECK_biometric_data_conformance tests, execute Tests 27 to Test 48 in the SP 800-85B conformance tool Verify that the test has completed by viewing the result log area on the dialog box on the screen. Print and save a copy of the report for the Product evaluation.	
Expected Result(s):	1.	The test completes successfully showing that the biometric fingerprint template is conformant to the requirements of Table 3 of SP 800-76.	