**CTK v1.2.0 Testing Report**

The scope of testing revolved around verifying the compliance of the product as per the specifications published by MOSIP using the below devices:

* The windows compliance tool kit was tested with the below specifications:

1. **ABIS (Automated Biometric Identification System)** Specifications was tested with Fingerprint, Iris and Face modalities as per MOSIP - ABIS API specifications.
2. **Secure Biometric Interface (SBI)**

* Registration devices for Iris, Face and Fingerprint
* Authentication devices for Iris, Face and Fingerprint

1. **Biometric SDK**
   * Quality Check
   * Match
   * Extraction
   * Conversion

* The Android compliance tool kit app v1.1.0 was tested with the below specifications:

1. Secure Biometric Interface (SBI)

* Registration devices for Iris, Face and Fingerprint
* Authentication devices for Iris, Face and Fingerprint

***Test Execution Statistics***

**ABIS Testing**

MOSIP interfaces with an Automated Biometric Identification System (ABIS) to perform de-duplication of a resident's biometric data. A country may use multiple ABISs for the same biometric data and evaluate the best ABIS based on de-duplication quality. ABIS is used for 1:N de-duplication. For 1:1 authentication Biometric SDK is used. MOSIP does not recommend using an ABIS for 1:1 authentication.

Test cases have been tested with MOSIP mock ABIS for compliance with the MOSIP specifications across 29 test cases.

|  |  |
| --- | --- |
| ***Scenarios*** | ***Mock ABIS*** |
| *Total* | 28 |
| *Passed* | 27 |
| *Pending* | 0 |
| *Failed* | 0 |
| *NA* | 1 |
| *Test Rate (%)* | 100% |
| *Pass Rate (%)* | 100% |

**Out of scope:** Real ABIS testing in CTK v1.2.0

**SBI Testing**

The Secure Biometric Interface (SBI) is used to interface with biometric devices. The compliance tool kit was tested to ensure that the interface built by the device provider is following the specs and security rules defined in the SBI spec. The device hardware security features are not tested as part of compliance tool kit.

**For Android Authentication Devices using MOSIP's Android mock SBI**

The ‘Android CTK app v1.1.0’ with ‘MOSIP Android Mock SBI’ has been tested for compliance with the specifications across 55 test cases. Test cases specific to quality and user interactions have been tested with MOSIP Android mock SBI.

|  |  |  |  |
| --- | --- | --- | --- |
| ***Scenarios*** | ***FP*** | ***Iris*** | ***Face*** |
| *Total* | 19 | 21 | 15 |
| *Passed* | 19 | 19 | 15 |
| *Pending* | 0 | 0 | 0 |
| *Failed* | 0 | 2 | 0 |
| *Test Rate (%)* | 100% | 100% | 100% |
| *Pass Rate (%)* | 100% | 90% | 100% |

**For Android Registration Devices using MOSIP's Android mock SBI**

The ‘Android CTK app v1.1.0’ with ‘MOSIP Android Mock SBI’ has been tested for compliance with the specifications across 64 test cases Test cases specific to quality and user interactions have been tested with MOSIP Android mock SBI and real registration face SBI.

..

|  |  |  |  |
| --- | --- | --- | --- |
| ***Scenarios*** | ***FP*** | ***Iris*** | ***Face*** |
| *Total* | 29 | 18 | 17 |
| *Passed* | 29 | 18 | 17 |
| *Pending* | 0 | 0 | 0 |
| *Failed* | 0 | 0 | 0 |
| *Test Rate (%)* | 100% | 100% | 100% |
| *Pass Rate (%)* | 100% | 100% | 100% |

**For Windows Authentication Devices using MOSIP's windows mock SBI**

The windows CTK v1.1.0 with ‘MOSIP windows Mock SBI’ has been tested for compliance with the specifications across 55 authentication spec test cases.

.

|  |  |  |  |
| --- | --- | --- | --- |
| ***Scenarios*** | ***FP*** | ***Iris*** | ***Face*** |
| *Total* | 19 | 21 | 15 |
| *Passed* | 19 | 21 | 15 |
| *Pending* | 0 | 0 | 0 |
| *Failed* | 0 | 0 | 0 |
| *Test Rate (%)* | 100% | 100% | 100% |
| *Pass Rate (%)* | 100% | 100% | 100% |

**For Windows Registration Devices using MOSIP's windows mock SBI**

The windows CTK v1.1.0 with ‘MOSIP windows Mock SBI’ has been tested for compliance with the specifications across 76 registration spec test cases.

|  |  |  |  |
| --- | --- | --- | --- |
| ***Scenarios*** | ***FP*** | ***Iris*** | ***Face*** |
| *Total* | 35 | 21 | 20 |
| *Passed* | 35 | 21 | 20 |
| *Pending* | 0 | 0 | 0 |
| *Failed* | 0 | 0 | 0 |
| *Test Rate (%)* | 100% | 100% | 100% |
| *Pass Rate (%)* | 100% | 100% | 100% |

**Out of scope:** Real devices testing on windows and android CTK.

**SDK Testing**

The SDK implementation has been tested to support quality check, match, extraction, and conversion of biometrics. Test cases have been tested with MOSIP mock SDK.

|  |  |
| --- | --- |
| ***Scenarios*** | ***With Mock SDK*** |
| *Total* | 65 |
| *Passed* | 65 |
| *Pending* | 0 |
| *Failed* | 0 |
| *N/A* | 0 |
| *Test Rate (%)* | 100% |
| *Pass Rate (%)* | 100% |

**Out of scope:** Segmentation testing and Real SDK testing

**Known Issues:**

* After login to CTK android app, the previous browser tab is not killed
* Newly registered user not landing in to CTK android home page (intermittent issue)
* In CTK Android app UI elements are overlapping with each other (Observed this issue on Samsung A03 and Oneplus nord AC2001 mobiles because of the size of the screen.)
* Add project/collection takes empty spaces as name. (Validation is missing)
* In Android CTK -'Encryption Key' button is not appearing for Auth projects (Workaround: Partners can download 'Encryption Key' from web application)
* Test cases SBI1067 & SBI1068 Auth Iris ISO validation failing with Android mock MDS

**Docker version (required for Compliance Test Kit):**

mosipqa/compliance-toolkit-service:1.2.0

mosipqa/compliance-toolkit-ui:1.2.0

mosipqa/postgres-init:1.2.0.1

mosipid/postgres-init:1.2.0.1-B2

mosipid/config-server:1.1.2

mosipid/kernel-auditmanager-service:1.2.0.1-B1

mosipid/kernel-auth-service:1.2.0.1-B2

mosipqa/authentication-service:1.2.0.1

mosipid/kernel-keymanager-service:1.2.0.1-B2

mosipid/keycloak-init:1.2.0.1-B2

mosipqa/partner-management-service:1.2.0.1

mosipqa/partner-onboarder:develop

mosipid/kernel-notification-service:1.2.0.1-B1

mosipid/mosip-keycloak:16.1.1-debian-10-r85