**Testing Scope**

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

Registration devices for iris, face and fingerprint

Authentication devices for iris, face and fingerprint

Compliance tool kit were tested with the below biometric specifications:

1. SBI – Registration and Authentication

2. SDK : Verified for quality check, 1:N match, extraction, and conversion of biometrics.

**Test Execution Statistics**

**SBI Testing**

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.

**For Authentication Devices using MOSIP's Mock SBI**

The MOSIP’s Mock SBI has been tested for compliance to the specification across 37 test cases. Test cases specific to quality and user interactions have been tested with real devices rather than mock.

|\*\*Scenarios\*\*| \*\*Finger\*\* | \*\*Iris\*\* | \*\*Face\*\* |

|-------------|------------|----------|----------|

| Total | 14 | 13 | 10 |

| Passed | 14 | 13 | 10 |

| Pending | 0 | 0 | 0 |

| Failed | 0 | 0 | 0 |

| \*\*Test Rate (%)\*\* | 100% | 100% | 100% |

| \*\*Pass Rate (%)\*\* | 100% | 100% | 100% |

**For Registration Devices using MOSIP's Mock SBI**

The MOSIP’s Mock SBI has been tested for compliance to the specification across 49 test cases. Test cases specific to quality and user interactions have been tested with real devices rather than mock.

|\*\*Scenarios\*\*| \*\*Finger\*\* | \*\*Iris\*\* | \*\*Face\*\* |

|-------------|------------|----------|----------|

| Total | 22 | 14 | 13 |

| Passed | 22 | 14 | 13 |

| Pending | 0 | 0 | 0 |

| Failed | 0 | 0 | 0 |

| \*\*Test Rate (%)\*\* | 100% | 100% | 100% |

| \*\*Pass Rate (%)\*\* | 100% | 100% | 100% |

**For Authentication Devices using MOSIP's Real SBI (Only Finger)**

The MOSIP’s real SBI has been tested for compliance to the specification only for fingerprint devices.

|\*\*Scenarios\*\*| \*\*Finger\*\* | \*\*Iris\*\* | \*\*Face\*\* |

|-------------|------------|----------|----------|

| Total | 14 | 13 | 10 |

| Passed | 9 | 0 | 0 |

| Pending | 0 | 13 | 10 |

| Failed | 5 | 0 | 0 |

| \*\*Test Rate (%)\*\* | 100% | 0% | 0% |

| \*\*Pass Rate (%)\*\* | 64% | 0% | 0% |

**For Registration Devices using MOSIP's Real SBI**

The MOSIP’s real SBI has been tested for compliance to the specification for iris, face and fingerprint devices.

|\*\*Scenarios\*\*| \*\*Finger\*\* | \*\*Iris\*\* | \*\*Face\*\* |

|-------------|------------|----------|----------|

| Total | 22 | 14 | 13 |

| Passed | 22 | 14 | 13 |

| Pending | 0 | 0 | 0 |

| Failed | 0 | 0 | 0 |

| \*\*Test Rate (%)\*\* | 100% | 100% | 100% |

| \*\*Pass Rate (%)\*\* | 100% | 100% | 100% |

**SDK Testing**

The SDK implementation has been tested to supports quality check, 1:N match, extraction, and conversion of biometrics.

Out of scope: Segmentation testing

|\*\*Scenarios\*\*. | \*\*With Mock SDK\*\* | \*\*With Real SDK\*\* |

|----------------|-------------------|-------------------|

| Total | 76 | 76 |

| Passed | 36 | 27 |

| Pending | 9 | 0 |

| Failed | 31 | 11 |

| Not Applicable | 0 | 28 |

| \*\*Test Rate (%)\*\* | 88% | 50% |

| \*\*Pass Rate (%)\*\* | 47% | 36% |

**Sonar Report**

