16 November 2023

To whom it may concern,

iBeta Quality Assurance conducted Presentation Attack Detection (PAD) testing in accordance with ISO/IEC 30107-3. iBeta is accredited by NIST/NVLAP (NVLAP Lab Code: 200962) to test and provide results to this PAD standard (certificate and scope may be downloaded from the NVLAndP website).

This testing was conducted with Persona Identities, Inc's Persona Selfie Liveness v2.0 application, used with backend cloud component Selfie Face Liveness 2.03. Testing of the active liveness detection solution was conducted from 2 November to 16 November 2023, on two devices: a Samsung Galaxy S23 running Android 13 and an Apple iPhone 14 Pro Max running iOS 16.6.

Testing was conducted in accordance with the contract for a level of spoofing technique that only utilized mid-level methods to create an artefact of the genuine biometric for use in the presentation attack. The subjects for the test effort were cooperative – meaning that they were willing and able to provide any and all biometric samples, including high quality biometric facial samples. The test time for each PAD test per Presentation Attack Insturment (PAI) was limited to 24 hours. This is considered a Level 2 PAD test effort (second of three levels).

The test method was to apply 1 bona fide subject presentation that alternated with 3 artefact presentations such that the presentation of each species consisted of 150 Presentation Attacks (PAs) and 50 bona fide presentations, or until 8 hours had passed. The results were displayed for the tester on the device as "Congratulations you're done! Thanks for verifying your identity" for a successful attempt or "Couldn't verify" for an unsuccessful attempt.

iBeta was not able to gain a liveness classification with the presentation attacks (PAs) on either the Samsung Galaxy S23 or the Apple iPhone 14 Pro Max. With 150 PAs for each of 5 species per device, the total number of attacks was 1500, and the Attack Presentation Classification Error Rate (APCER) was 0%. The Bona Fide Presentation Classification Error Rate (BPCER) was also calculated and may be found in the final report.

Persona Identities, Inc's Persona Selfie Liveness v2.0 application and backend component Selfie Face Liveness 2.03, tested on both the Samsung Galaxy S23 running Android 13 and Apple iPhone 14 Pro Max running iOS 16.6, was tested by iBeta to the ISO 30107-3 Biometric Presentation Attack Detection Standard and was found to be in compliance with Level 2.

Best regards,

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