10 October 2022

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 NVLAP website).

This testing was conducted with the VisionLabs LUNA PLATFORM (Face recognition system VisionLabs LUNA) v5.28.0, mobile application v1.0 and the associated luna-api server. Testing of the passive liveness detection solution was conducted from the 29th of September to 10th October 2022 on two smartphones (Samsung Galaxy A50 running Android 9, and Apple iPhone 11 running iOS 14.7.1).

Testing was conducted in accordance with the contract for a level of spoofing technique that only utilized simple, readily available methods to create artefacts 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 photos and videos of their likeness. The test time for each PAD test per Presentation Attack Insturment (PAI) was limited to eight hours. This is considered a Level 1 PAD test effort (first of three levels).

The test method was to apply 1 bona fide subject presentation that alternated with 3 artefact presentations such that each species consisted of 150 Presentation Attacks (PAs) and 50 bona fide presentations. The application would then show "Liveness Check Passed" for a successful attempt, or "Liveness Check Failed" for an unsuccessful attempt.

On both Galaxy A50 and iPhone 11, iBeta was not able to gain a liveness classification with the presentation attacks (PAs). With over 150 PAs for each of 6 species per device, the total number of attacks was 1800, 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.

The VisionLabs LUNA PLATFORM (Face recognition system VisionLabs LUNA) v5.28.0, mobile application v1.0 and the associated luna-api server was tested by iBeta to the ISO 30107-3 Biometric Presentation Attack Detection Standard and was found to be in compliance with Level 1.

Best regards,

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