



10 February 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 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 10th of January to the 10th of February 2023 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 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 Instrument (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 each species consisted of 150 Presentation Attacks (PAs) and 50 bona fide presentations. The results were displayed for the tester on the device as “Liveness check passed” for a successful attempt or “Liveness check failed. Presentation attack detected” for an unsuccessful attempt.

On both the 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 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.

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 2.

Best regards,

A handwritten signature in black ink, appearing to read "Ryan Borgstrom".

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