



15 August 2024

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 Testing 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 Olimpia IT's Olimpia-Liveness v0.0.16 (Android) application on a Google Pixel 4 running Android 12, and Olimpia-Liveness v1.0.2 (iOS) application on an Apple iPhone 11 running iOS 17.6.1. iBeta conducted active liveness detection testing on these applications and their backend cloud components from 31 July to 15 August 2024.

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 facial images. The test time for each PAD test per 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 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 "Your face is real" for a successful attempt or "Processing error – The image does not correspond to a real person" for an unsuccessful attempt.

iBeta was not able to gain a liveness classification with the presentation attacks (PAs) on either the Pixel 4 or iPhone 11 over a total of 1800 attacks (900 per device), resulting in an Attack Presentation Classification Error Rate (APCER) of 0%. The Bona Fide Presentation Classification Error Rate (BPCER) was also calculated and may be found in the final report.

Olimpia IT's Olimpia-Liveness v0.0.16 application (Android), installed on a Pixel 4 running Android 12 and Olimpia-Liveness v1.0.2 (iOS) application, installed on an iPhone 11 running iOS 17.6.1, were tested with their backend cloud components by iBeta to the ISO 30107-3 Biometric Presentation Attack Detection Standard and was found to be in compliance with Level 1.

Best regards,

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

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