



6 April 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 Sefie-Alive Pro v2.4(3) which included Photo Selfie SDK (4.4.0) active liveness detection application and associated das-Face server v3.6.0 provided by Veridas. Testing was conducted from 17 March to 6 April 2022 on an iPhone 11 running iOS 15.0.

The test method was designed to simulate user enrollment into a biometric authentication system. This test did not perform matching and was purely a test of liveness detection effectiveness. Testing was conducted in accordance with the contract for a level of spoofing technique that utilized materials available for under \$300 (USD), and in which artefacts of the genuine biometric could be created in less than 24 hours, 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. The test time for each PAD test per subject was limited to 24 hours and the artefacts consisted of latex masks, resin masks, inexpensive silicone masks, 3D animation software, and handmade masks from 2D photos. This is considered a Level 2 PAD test effort (second of three levels).

The test method was to apply 1 bona fide subject presentation alternated with 3 presentations of each species resulting in 150 Presentation Attacks (PAs) and 50 bona fide presentations per artefact per device. The application displayed a successful message that stated "Your identity was verified" for the bona fide, and a "Your identity could not be verified" message for the artefact.

iBeta was not able to gain unauthorized access with the PAs yielding an overall Presentation Attack (PA) success rate of 0% on the iPhone 11. With 150 PAs for each species of attack, the total number of attacks was 750 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 Selfie-Alive Pro v.2.4(3) with Photo Selfie SDK (4.4.0) and associated das-Face server v3.6.0 active liveness anti-spoofing capability provided by Veridas was tested by iBeta to the ISO 30107-3 Biometric Presentation Attack Detection Standard and was found to be in compliance with Level 2 on the iPhone 11.

Best regards,

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

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