5 August 2021

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 the Imageware® Biointellic™ Intelligent Liveness Assurance product which is used in Imageware Authenticate, Imageware Proof and the Imageware Identity Platform. The tested solution consisted of passive liveness detection using the Imageware Authenticator app on Android (client version 9.0.3.0 and SDK version 9.0.3) and on iOS (client version 1.12 and SDK version 1.4.1). Testing was conducted from the 16th of July to the 3rd of August 2021 on two smartphones (Galaxy S20 with Android 10.0.0 and iPhone XR with iOS 12.3.1).

Testing was conducted in accordance with the contract for a level of spoofing technique that utilized materials available for under $300 (USD) and 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. 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 "Enrollment complete" for the bona fide as well as a "Try Again" message for the artefact.

On both the iPhone XR and Galaxy S20 used in the test, iBeta was unable to gain a liveness classification (simulated enrollment) with a presentation attack of 150 times with each species of attack per device. With 150 transaction attempts for each species per device, the total number of attacks for both devices were 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 passive liveness anti-spoofing capability provided by Imageware Biotellic 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 XR and Galaxy S20.

Best regards,

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