22 October 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 Cyberlink FaceMe version 6.0.0 application. The tested solution consisted of active liveness detection on both an Android and iOS device. Testing was conducted on the Apple iPhone XS Max running iOS 12.3.1 from 20 July to 27 July 2021 and the Xiaomi Mi11 running Android 11 from 10 October through 19 October 2021.

Testing was conducted in accordance with the contract for a level of spoofing technique that utilized materials available for under $30 (USD) and which artefacts of the genuine biometric could be created in less than 8 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 8 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 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 "Hi, Guest" for the bona fide as well as an "Oops! Please try again" message for the artefact.

On both the Xiaomi Mi11 and the iPhone XS Max used in the test, iBeta was unable to gain a liveness classification with a presentation attack of 150 times per species per device. With 150 transaction attempts for each species per device, the total number of attacks for both devices 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 active liveness anti-spoofing capability provided by Cyberlink's FaceMe version 6.0.0 application was tested by iBeta to the ISO 30107-3 Biometric Presentation Attack Detection Standard and was found to be in compliance with Level 1 on both the Xiaomi Mi11 and iPhone XS Max.

Best regards,

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