06 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 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 Advance AI Liveness Detection v5.7 application and the associated server v0.9.2. The tested solution consisted of active liveness detection on two Android devices. iBeta conducted testing on a Vivo 1812 running Android 8.1.0 and an Redmi 7A running Android 9. iBeta conducted testing from 15 March 2022 to 5 April 2022.

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 results were displayed for the tester on the device as "Liveness detection success" for a successful attempt or "Liveness detection failed, please try again" for an unsuccessful attempt.

On both the Vivo 1812 and the Redmi 7A 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 Liveness Detection v5.7 application and associated server v0.9.2 provided by Advance AI 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 Vivo 1812 and Redmi 7A.

Best regards,

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