05 January 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 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 DactyID20 Demo version 2200 fingerprint biometric system. The application uses liveness detection and the fingerprint reader uses an optical sensor. Testing was conducted from 17 December through 30 December 2020 on the DactyID20 Fingerprint Reader capture device.

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 that alternated with 3 presentations of each species resulting in 150 Presentation Attacks (PAs) and 50 bona fide presentations per artefact. The application displayed a successful message that stated "Finger OK" for the bona fide, as well as a “Fake Finger Detected” message for the non-live person and live person.

iBeta was unable to gain a liveness classification (simulated enrollment) with a presentation attack of 150 times with each species of attack. With 150 transaction attempts, the total number of attacks were 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 DactyID20 Demo liveness capability provided by Thales Group in their DactyID20 Demo application was tested by iBeta to the ISO 30107-3 Biometric Presentation Attack Detection Standard and was found to be in compliance with Level 2.

Best regards,

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