



19 July 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 DaonFace, consisting of iOS and Android version 6.0.8, with the associated DaonFace server version 6.0. Testing was conducted from 1 July 2022 through 18 July 2022 on two smartphones (iPhone 6S Plus with iOS 12.1.2 and a Samsung Galaxy S8 with Android 8.0).

Testing was conducted in accordance with the contract for a level of spoofing technique that only utilized mid-level methods to create an artefact of the genuine biometric 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, including high quality biometric facial samples. The test time for each PAD test per Presentation Attack Instrument (PAI) 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 artefact presentations such that each species consisted of 150 Presentation Attacks (PAs) and 50 bona fide presentations per device. The application would then state that “Liveness Failed” for the artefact presentations and “Liveness Passed” for bona fide presentations.

On both the iPhone 6S Plus and the Galaxy S8, iBeta was not able to gain a liveness classification with the presentation attacks (PAs). With 150 PAs for each of 5 species per device, the total number of attacks was 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 DaonFace passive liveness detection provided by Daon was tested by iBeta to the ISO 30107-3 Biometric Presentation Attack Detection Standards and was found to be in compliance with Level 2 on both the iPhone 6S Plus and Galaxy S8.

Best regards,

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

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