



23 August 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 VNG Software Development Company Limited (VNGS) trueID v1.4 application with the associated liveness_version 7.1.5 server. Testing of the passive liveness detection solution was conducted from the 4th of August to the 23rd of August 2022 on a single smartphone (Google Pixel 4 running Android 12).

Testing was conducted in accordance with the contract for a level of spoofing technique that only utilized simple, readily available methods to create artefacts 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 photos and videos of their likeness. The test time for each PAD test per Presentation Attack Instrument (PAI) was limited to eight 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 that alternated with 3 artefact presentations such that each species consisted of 150 Presentation Attacks (PAs) and 50 bona fide presentations. The application would then show “Liveness Passed” in green for a successful attempt, or “Liveness Failed” in red for an unsuccessful attempt.

On the Google Pixel 4, iBeta was not able to gain a liveness classification with the presentation attacks (PAs). With over 150 PAs for each of 6 species per device, the total number of attacks was 900, 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 VNGS trueID v1.4 application and the associated liveness_version 7.1.5 server was tested by iBeta to the ISO 30107-3 Biometric Presentation Attack Detection Standard and was found to be in compliance with Level 1.

Best regards,

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

Ryan Borgstrom
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