



5 January 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 Orbis Systems' BioLiveness 0.6.0 liveness detection biometric system on the Samsung Galaxy S20 device with the Checklivelbeta version 1.0 application to access the cloud based liveness service from December 15, 2021 through January 3, 2022. The passive liveness detection testing was on a single smartphone (Galaxy S20 with Android 10).

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 during 8 hours of testing per species. The process was to present the live face or artefact to the screen and tap a circle on the bottom of the screen. The results were displayed for the tester on the Android device as either 'Live' for a successful attempt or a 'Fake' for an unsuccessful attempt.

On the Galaxy S20, iBeta was not able to gain a liveness classification with the presentation attacks (PAs). With 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 Orbis Systems' BioLiveness version 0.6.0 and associated Android application Checklivelbeta version 1.0 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 blue ink that reads "Gail Audette".

Gail Audette

iBeta Quality Assurance Director of Biometrics  
(303) 627-1110 ext. 182  
GAudette@ibeta.com