



11 February 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 V-Series fingerprint biometric systems developed by HID Global. The tested solution consisted of two V-Series (V210) Fingerprint Sensors with LumiDvcSvc Win_v8.0.37723 driver and a liveness detection app iBetaV210 (HID Global V31X/V21X PAD Evaluation v0.92) for fingerprints from 1 February through 9 February 2021.

The test method was designed to simulate liveness authentication system. This test did not perform matching and was purely a test of liveness detection effectiveness. 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 alternated with 3 presentations of each species resulting in 150 Presentation Attacks (PAs) and 50 bona fide presentations per artefact per device. The application displayed a successful message that stated "GENUINE" for the bona fide as well as a "PRESENCE ATTACK DETECTED" message for the artefact.

On V-Series used in the testing, iBeta was unable to gain a liveness classification (simulated enrollment) with a presentation attack of 150 times with each species of attack per device. With 150 transaction attempts for each species, 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 liveness anti-spoofing capability provided by HID Global in their V-Series Fingerprint Sensor 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,

A handwritten signature in blue ink that reads "Gail Audette".

Gail Audette
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