Evaluation statement

FaceTec 3D FaceScan

Level 2 IAD (CEN High) evaluation 20 November 2025

Ingenium Biometric Laboratories (Ingenium) is an independent ISO/IEC 17025 accredited test laboratory, helping organisations test and trust identity and biometric technology, driven by research and innovation. Ingenium is the UK's official independent biometrics laboratory for the National Protective Security Authority (NPSA) / critical national infrastructure and a FIDO-accredited test laboratory.

Target of evaluation

The TOE consists of the FaceTec 3D FaceScan application running on an Android OS-based device, specifically a Samsung Ultra S23 running the SDK v9.7.92 product. The test infrastructure is accessed through an app, which is used to interface with the user and capture biometric data which is processed remotely.

The boundary of the TOE is formed by the app running on the Android device, the communication links between the device and the biometric processing system running on the remote server under FaceTec control. The evaluation type was an enrolment evaluation as defined in section 3.4 of CEN TS 18099.

Evaluation method

The FaceTec system was evaluated against Ingenium's Level 2 IAD requirements which is equivalent to CEN TS 18099 Level High.

Level	No. of IAMs in scope	No of IAIs in scope	CEN IAI level coverage	IBL IAI level coverage	Attack weighting	FTE (days)
2	≥ 3 IAMs	≥ 15 IAI species	Basic to high	IBL IAI 1-3	> 40	30

Biometric data injection attacks comprise two main components: the injection attack method (IAM) and the injection attack instrument (IAI). The IAM is the means by which the injection attack is delivered, the IAI is the specific attack that is delivered into the system, such as an image or video sequence. CEN TS 18099 specifies a number of IAMs and IAI species for each level of evaluation (Basic, Substantial, High). These form the

basis for the number of different IAMs and IAIs included in the evaluation. For the IBL Level 2 evaluation (corresponding to CEN High) a minimum of 3 IAMs and 15 IAI species must be included in the evaluation.

The app manages the biometric capture process, namely capturing face data and transmitting it to the remote server. The user holds their face in front of the screen and follows a series of instructions to capture the biometric data. The app manages the capture of face biometric information which is transmitted to the remote server for processing.

Evaluation results

The evaluation took place during November 2025. The FaceTec 3D FaceScan solution was evaluated against Ingenium's Level 2 IAD requirements which are consistent with the requirements outlined in CEN 18099 for level High. There are 3 performance requirements, all of which were met by the TOE:

Test parameter	Requirement	Description	Status
No. of IAMs	≥ 3 IAMs	IAM 1: Emulators IAM 2: Function hooking IAM 3: Rooted phone w/ dynamic function hooking IAM 4: Emulators w/ function hooking	Requirement met
No of IAIs	≥ 15 IAI species	15 different IAI species were delivered but none were successful in subverting the FaceTec system	Requirement met
CEN IAI level coverage	Basic to high	Basic attack type count: 7 Enhanced basic attack type count: 6 Moderate substantial attack type count: 5 High attack type count: 2	Requirement met
IBL IAI level coverage	1–3	IAI level 1 attack coverage count: 7 IAI level 2 attack coverage count: 11 IAI level 3 attack coverage count: 2	Requirement met
Attack weighting	> 40	No. of attack types > 40:	Requirement met
FTE days	30	Drafting of security target: 3 IAI prep: 4 Active test days: 20	Requirement met

Overall evaluation requirement	FaceTec evaluation result	Status
To have a bona fide presentation rate (BPCER for IAD sub-system evaluation and FNMR for full system evaluation) corresponding to the one indicated in the security target, with a maximum of 15 %. At least 300 legitimate transactions shall be performed by the laboratory during the evaluation process	BPCER requirement met	PASS
To be resilient to all attacks reaching the level corresponding to the evaluation's level. If there is an existing vulnerability (i.e. the attack has been identified and exploited), rated with a level under or equal to the evaluation's level (see Clause 8.6), it means that the TOE is not resilient for such attack, and thus that the evaluation's result is FAIL.	No attack type successfully compromised the FaceTec 3D FaceScan system	PASS

FaceTec 3D FaceScan Level 2 IAD (CEN High) evaluation result: **Pass**

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