ISS

SecurOS®
FaceX

Face as a Credential for Access Control

Making access frictionless

Technology Overview

Security and operations teams strive to create a safe and productive environment for building guests and tenants. The SecurOS® FaceX as a Credential (FaaC) module seamlessly integrates with a variety of access control systems (ACS) to turn a person's face into their credential, creating a frictionless and secure access solution.

SecurOS® FaaC can be used as either a standalone solution or with other credentials for applications that require multi-factor authentication. The module also does not require proprietary cameras and can operate with a variety of manufacturers to create a visually appealing installation.

Typical access control systems utilize physical credentials like proximity cards, keyfobs, Bluetooth-enabled phones, or biometric readers. In each case, these methods take time as authorized personnel try to locate their credential or utilize inherently slow technologies. Additionally, the loss of physical entry devices, due to carelessness or theft, is a constant problem that poses a security risk and adds hassle and an increased management load.

Applications

Enterprise Schools and Campuses Government Multi-tenant Buildings

Key Features

MULTI-FACTOR AUTHENTICATION
Special mode to manage access control for both single-factor and multi-factor authentication.

SEAMLESS INTEGRATION WITH ACS
Existing integration with all major access control systems.

DATA SECURITY
All personal data is encrypted in transit and at rest.

SPEED OF ENTRY
No need to stop or slow down; the entire identification process and opening the door/turnstile is done in less than 500 ms.

ANTI-SPOOFING
System checks for face liveness, and ensures that printed photos or images from mobile devices will be flagged as spoofing alarms.

SINGLE ENROLLMENT INTERFACE
Synchronize ACS Person DB with SecurOS® FaceX Person DB to provide a single enrollment interface.

SecurOS® FaceX FaaC at Work

One important part of the SecurOS® FaaC solution is the SecurOS® ProxCom 211 ACS Metadata Controller. This device enables hardware-based integration of SecurOS® FaceX with virtually any access control system to support single-factor or multi-factor authentication with minimal or no upgrade of existing infrastructure.
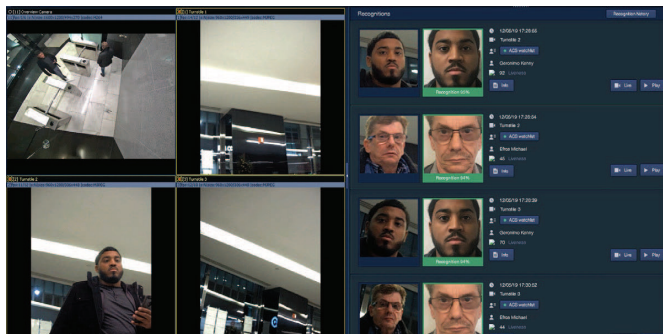
Here is the whole authorization process at work:

- Locate person's face – SecurOS® FaceX uses neural networks to find a person's face among all the elements of a video image.

- Create biometric template – Module takes measurements of the face to create a virtually unique numeric descriptor, called a biometric template, for each face in each video image.

- Match against watchlist – all biometric templates are matched real-time against an existing database of enrolled people.

- SecurOS® ProxCom in action – if a match occurs against a watchlist, the SecurOS ProxCom device, sends the person's credentials as a Wiegand/OSDP output to the access control system, which then determines whether to open the door/turnstile.

Specifications

ISS Platform Support

Operating System	Windows 10/11 Pro Windows Server 2016/2019/2022
SecurOS® Edition	SecurOS® Premium, Enterprise, MCC

Recognition Engine Specifications

Photos	ISO / IEC 19794-5 standard visa compliant photos social network photographs (and mug shots) face recognition by video stream. 99.5% True Positive Rate @ 0.05% False Match Rate 97.8% True Positive Rate @ 0.05% False Match Rate Up to 98% True Positive Rate @ 0.05% False Match Rate *(if camera installation procedure and reference photo quality meet the technical requirements)*
Number of people in watchlist	Unlimited
Biometric template size	Approximately 2Kb
Biometric template extraction speed	4 templates per second per 1 physical CPU core (2.5 GHz)

Camera / ACS Specifications

Camera type	FullHD (1920x1080) resolution or higher
Camera vendor	All vendors supported
ACS communication protocol	Wiegand, OSDP
Supported card formats	All card formats up to 100 bits

Resolution Requirements

Recommended distance between eyes	60 pixels
Minimum distance between eyes	40 pixels

INTELLIGENT VIDEO. DEFINED.®