

AEOS and biometric systems

Integration Insights

AEOS integrates with various biometric systems, such as Touchless Biometric Systems (TBS) and IDEMIA/Morpho, to identify carriers or verify carriers, as an alternative to the PIN verification solution.

Integrations

The AEOS integration with biometric management systems (BMS) applies to two levels of communication:

- Server level
HTTPS connection from the AEOS server to the BMS server, to push carrier information on real-time basis
- Device level
Wiegand, OSDP, or IP connection between the AEOS controller and the biometric readers.

Software requirements

Integration with TBS

- TBS BioManager R8.2 or higher.
- TBS firmware version 1.09.0 (1.10.x for BSP20xx based devices) or higher versions, for DIP without TLS.
- TBS firmware version 1.09.12.1 (2.03.3 for 2D eyes) or higher versions, for DIP with TLS.
- WEC client version WEC2.13.

Integration with IDEMIA/Morpho

- MorphoManager version 10.4.3 or higher versions (+ BioBridge).
- Microsoft SQL Server. The Morpho adapter needs an empty database and a user for this database.

Supported devices

- TBS: 3D, 2D+, 2D TERMINALS (not including 2D PORTABLE), 2D eyes.
- IDEMIA/Morpho: MA Sigma, MASL, MA Sigma Extreme, MA VP, MorphoWave, Morpho 3D Face Reader.

Please check with the biometric vendors for the latest biometric technology they offer.

Functionality

Integrating a biometric system with AEOS enables the following functionality:

- Synchronising carrier information via the AEOS HTML page to the biometric system.
- Triggering biometric enrollment client from the AEOS HTML page.
- Using AEOS to control the verification process (if Device Integration Protocol (DIP) over IP has been implemented in the reader)
- Using biometric data to identify or verify persons.

Functionality overview

	TBS	IDEMIA/Morpho
Create, modify, delete carrier information	✓	✓
Trigger biometric enrollment client	✓	✓
Secure communication via HTTPS (server side)	✓	✓
Biometrics as identification	✓	✓
Biometrics as verification (DIP implementation on reader)		
• card reader and biometric verification in one TBS device	✓	
• a third party card reader with a TBS device for biometric verification	✓	
Biometrics as verification (always active by terminal)	✓	✓
Biometric enrollment at terminals near doors	✓	✓
PIN verification (DIP implementation on reader)	✓	
Usage of a duress finger		
Write templates on card		✓
Display of access control result (DIP implementation on reader)	✓	
Wiegand	✓	✓
OSDP (not secured)	✓	✓
DIP	✓	
DIP via TLS	✓	

Considerations & limitations

- The AEOS HTML interface does not write biometric templates on cards. If biometric templates must be written on cards, this must be done by other applications.
- Carrier pictures are not synchronised between AEOS and the biometric system.
- Beeper control for biometric readers is not supported.
- The biometric integration can be used for either identification or verification with Wiegand or OSDP connections. Only with DIP can it be used for both purposes at the same time.
- The in/out buttons on the TBS 2D STATION (normally used for time attendance purposes) are not supported.
- The TBS zone manager is not supported.