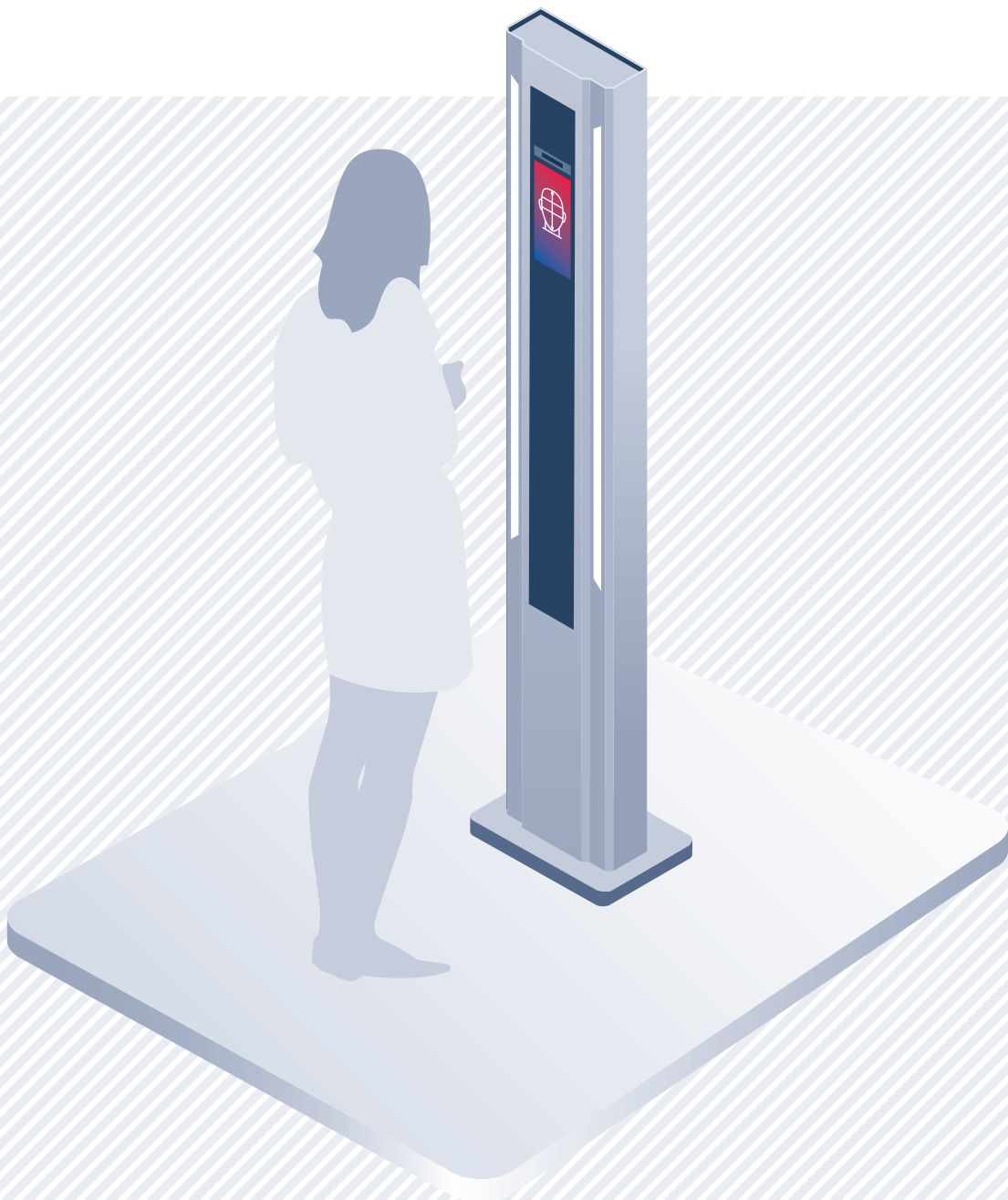# Facial Image Acquisition

Accelerate border control with the highest biometric data quality

secunet easytower ensures fast and high-quality facial image acquisition thanks to automated camera height adjustment and diffused illumination.

As part of the Smart Borders Initiative, the European Parliament decided to establish the common biometric Entry/Exit System (EES) in order to register all travellers from third countries. Therefore, as of 2022, Third Country Nationals (TCN) will have to register with four fingerprints and a facial image when entering the Schengen area through land, sea and air borders. The EES database will contain an unprecedented amount of data with estimated 300 million entries from TCN. The reliable and efficient identification at border control against data of this scale starts with a high-quality biometric capture. To ensure the enrolment of high-quality biometric data in all member states solutions that comply with the relevant standards are required.

secunet easytower ensures highest biometric data quality in accordance with the EU regulation 2017/2226. Automatic height adjustment of the camera system and additional diffused lighting for proper illumination ensure frontal facial image quality according to ISO 19794-5:2011. Thus all EES quality requirements are fulfilled. In addition, it adapts flexibly to the various border control booths at any time.

Intuitive, fast and easy to use

Thanks to the intuitive user guidance, the easytower can be easily operated by both travellers and border guards. An integrated feedback screen – a digital mirror – provides live video feedback of the facial image capture as well as multilingual instructions. Depending on requirements, a fully automatic capture or manual capture mode is selected.

The intuitive data acquisition process of the easytower ensures short capture times optimising the overall passenger flow and accelerating the border control process.

How secunet easytower works

First, the border control process is initiated by the border guard by verifying the travel document and performing an identity search in background systems at the booth. For the facial image capture, the passenger turns towards the easytower and follows the additional instructions on the screen.

While the traveller correctly positions in front of the easytower, the camera automatically adjusts to the height of the traveller, sets proper lighting and captures high-quality facial image.

The automatic height adjustment of the camera unit as well as diffused illumination and feedback screen, ensure a fast facial image capture.

The integrated diffused lighting provides high-quality, properly illuminated images, ensuring homogeneous exposure of the face even under unfavourable lighting conditions. Once the facial image has been successfully captured, the border guard can proceed with the verification procedure. The unique design of the easytower camera solution allows for an easy and swift facial image acquisition. Border control officials are thus ideally supported during the complex biometric enrolment process.

Flexible installation

While border control booths come in various sizes and shapes as well as with different additionally installed security measures, i.e. protective glass windows, the basic environmental conditions are always the same: The available space inside the border control booth for equipment that supports the border control officers is very limited at any location. In addition, the officer's view of what is happening in front of the border control counter must not be obstructed.

Benefits

- Fast, efficient, frontal and illuminated facial image capture

- Short capture time thanks to intuitive user guidance

- Flexible installation in existing border control infrastructures

Therefore, when developing the easytower, special emphasis was given to create a flexible solution with a design that allows an easy installation. secunet easytower is suitable as an individual system for a booth with up to two workstations. The system is mounted on the floor either as stand-alone unit on the right or left side of the booth or as a double unit centrally between the inspection lanes. The easytower can be arranged back-to-back, slanted or at any angle. This eliminates unnecessary modifications to border control booths and allows for maximum roll-out flexibility. Various installation options allow the easytower to adapt flexibly to the respective requirement and purpose. Its timeless and modern design ensures seamless integration into existing border control infrastructures.
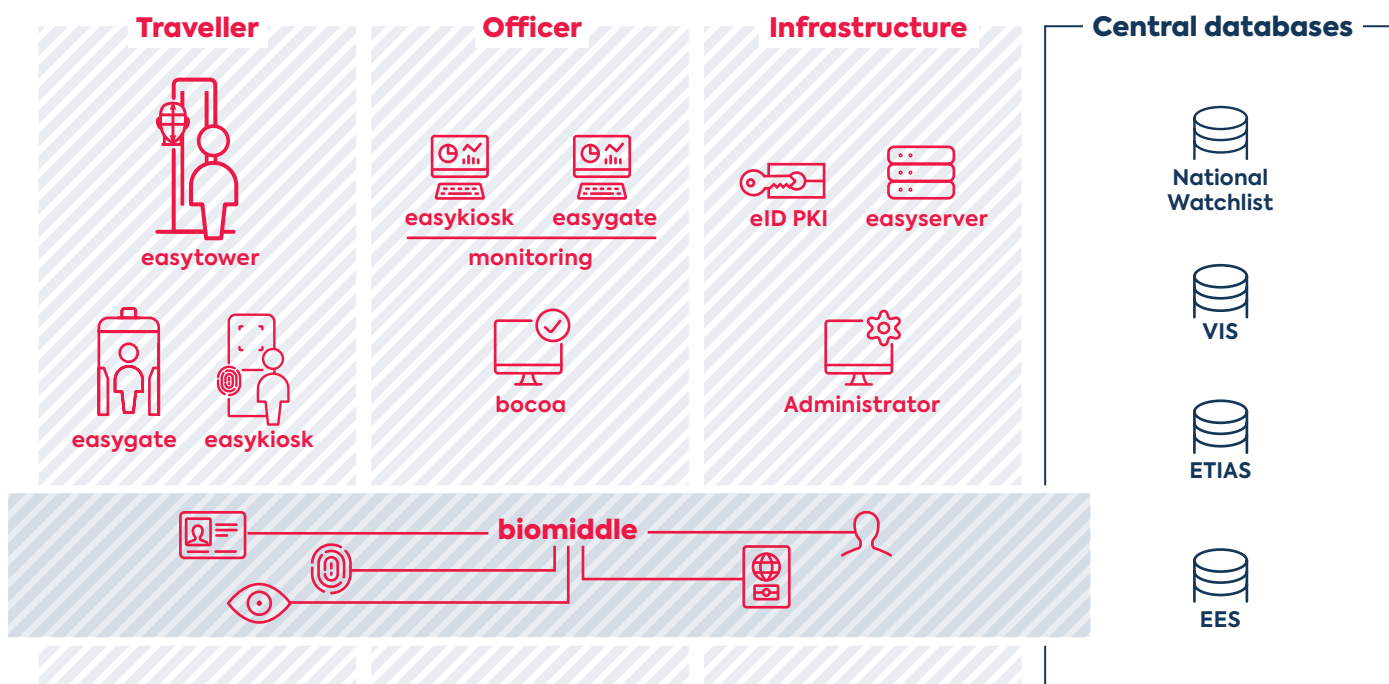
Supported user groups

secunet easytower enables simple, intuitive and frontal facial image acquisition of individuals with a body height of 115 to 200 cm as per EES requirements in accordance with ISO 19794-5:2011. The high-end camera solution is easily accessible for tall people and accompanied children ages 6 and up, as well as for wheelchair users.

Optional add-ons

A fingerprint reader can be attached to the right or left side of the easytower; the system thus becomes a single, central access point for biometric data collection. In addition to cost and space savings, the entire data acquisition process at border crossings is simplified.

Furthermore, the easytower is also able to scan 2D barcodes in order to transmit information, such as previously answered questions on mobile phones, which can be displayed to the border control officer in the border control application.

secunet easytower is part of secunet's border gears product family – a complete product portfolio for enhanced border security:

Traveller
easytower
easygate   easykiosk

Officer
easykiosk   easygate
monitoring
bocoa

Infrastructure
eID PKI   easyserver
Administrator

Central databases
National Watchlist
VIS
ETIAS
EES

biomiddle

More information:
secunet.com/en/easytower