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Building a future we can all trust



# Thales Gemalto Border Kiosk

Providing a smart, swift and secure border
crossing experience at external Schengen borders

# Gemalto Border Kiosk: **EES-compliant**

## A smart, swift and secure border crossing experience at external Schengen borders

**Identity & Biometric Solutions**

The Entry-Exit System (EES) scheme was adopted by the European Union in 2017, and will modernize and automate external EU border crossings for third-country nationals (TCNs). It will be implemented in 2022, when all TCNs, or non-EU nationals, arriving at or exiting the Schengen border – whether by air, sea or land – will be registered by the EES. Entry and exit data, travel documents, and biometric data (traveller's photograph and fingerprints) will be automatically collected.
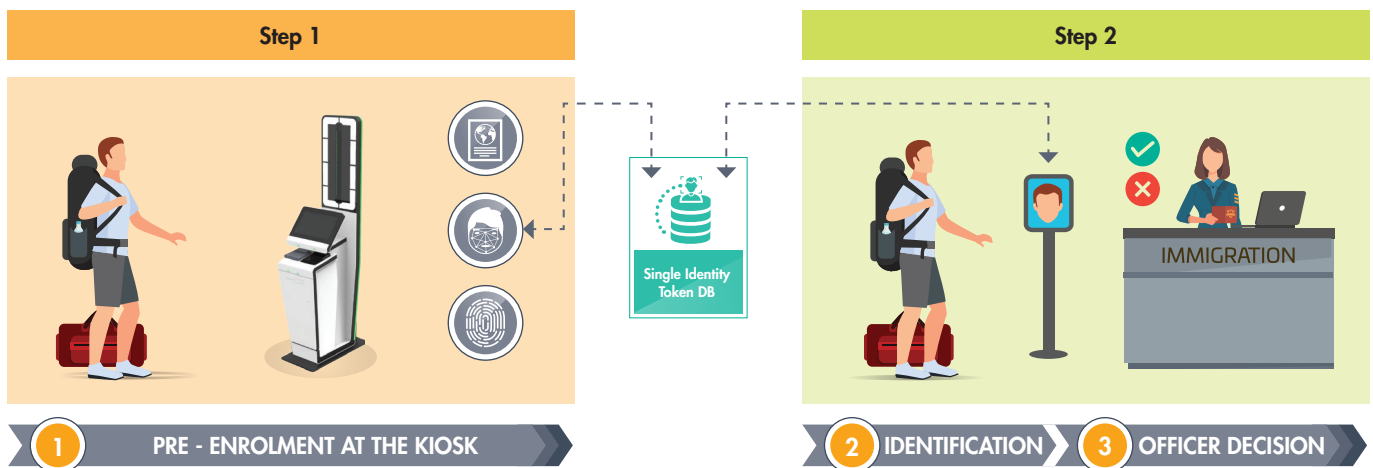
The EU is introducing the EES scheme with the aim of strengthening and better protecting the external borders of the Schengen area to improve security for its citizens. However for border control authorities in member states, the EES scheme presents a challenge to collect additional biometric data without impacting speed and efficiency.

## Border control made quick and easy with the Gemalto Border Kiosk

Our Border Kiosk is a brand-new, EES-compliant, self-service solution to ensure fast and efficient traveller registration. It leverages our expertise in border management solutions and biometric recognition software.

The two-step process first involves self-registration by the traveller at the kiosk, followed by a final border clearance stage performed either through manual border primary inspection or automated e-gates. This will improve passenger throughput and absorb the additional data-gathering requirements of the EES scheme.

**Step 1**

1. PRE - ENROLMENT AT THE KIOSK

Single Identity Token DB

**Step 2**

IMMIGRATION

2. IDENTIFICATION  3. OFFICER DECISION

Our new EES-compliant Border Kiosk and Border Management System are particularly adapted to controlled environments with a large number of passengers to process.
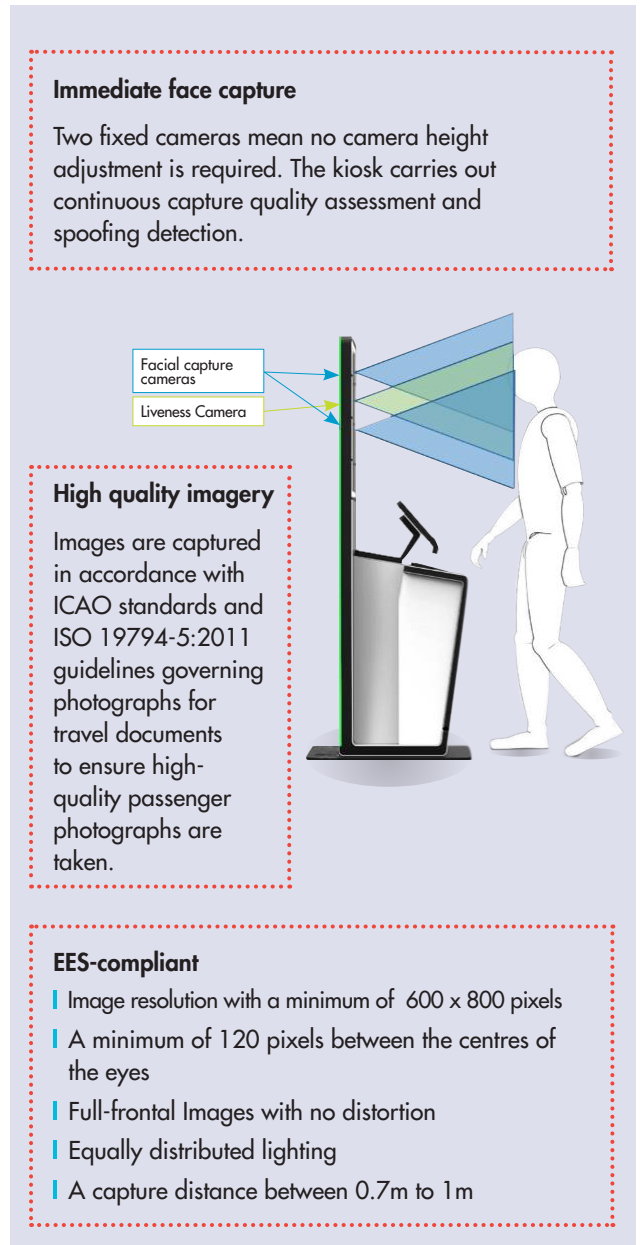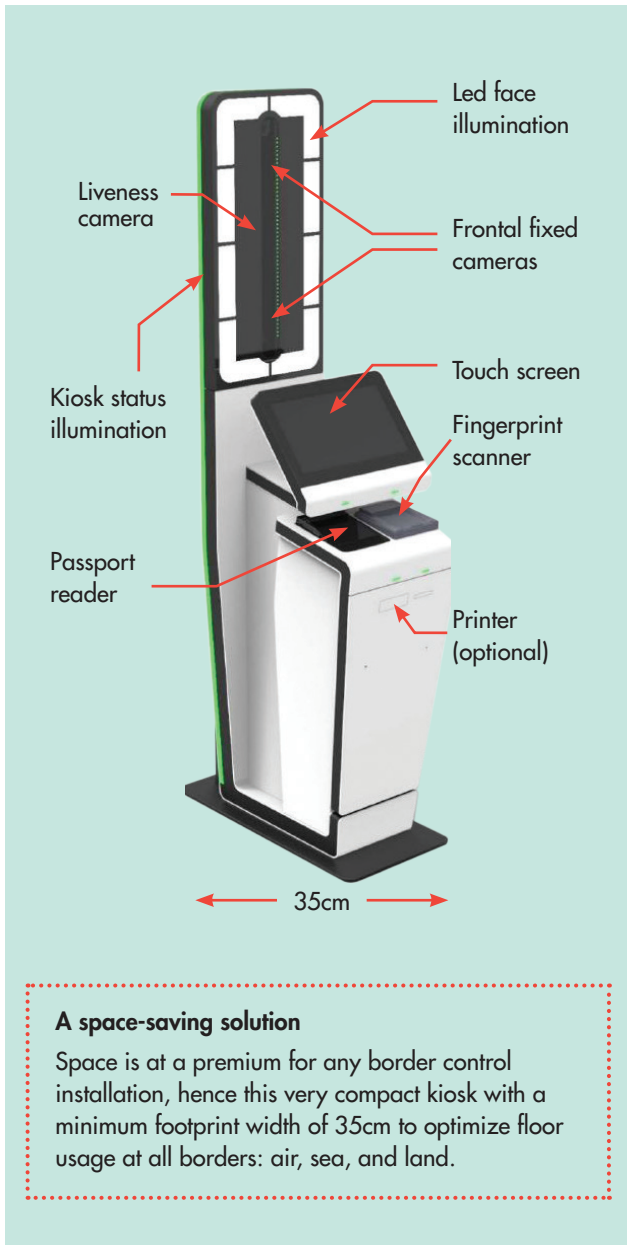
## Smart self-service registration for travellers

**One of the most efficient technologies on the market**

In less than a minute, travel documents are verified, face and fingerprint data is captured, and the required questionnaire is completed thanks to an intuitive UI.

**Secure Borders**

The Kiosk integrates Liveness Detection features to increase border security.

**Biometric quality**

The smart kiosk design features high resolution cameras, direct lighting and in-house fingerprint scanners.

## Top-class Thales technology inside

**Integrating our field-proven, cutting-edge solutions**

- Field-Proven Thales Gemalto Document Verification
- Thales Gemalto Document Reader
- Face capture and recognition powered by Thales Cogent Face Recognition Platform
- Thales Cogent Fingerprint Scanner

**Integrated face liveness detection**

Spoofing detection ensures a valid, live image is captured, and prevents mask attacks.

**Integrated fingerprint fraud detection**

The SDK features with fake finger detection, to ensure fingerprints are real.

Led face illumination

Liveness camera

Frontal fixed cameras

Touch screen

Kiosk status illumination

Fingerprint scanner

Passport reader

Printer (optional)

35cm

### A space-saving solution

Space is at a premium for any border control installation, hence this very compact kiosk with a minimum footprint width of 35cm to optimize floor usage at all borders: air, sea, and land.

### Immediate face capture

Two fixed cameras mean no camera height adjustment is required. The kiosk carries out continuous capture quality assessment and spoofing detection.

Facial capture cameras

Liveness Camera

### High quality imagery

Images are captured in accordance with ICAO standards and ISO 19794-5:2011 guidelines governing photographs for travel documents to ensure high-quality passenger photographs are taken.

### EES-compliant

▌ Image resolution with a minimum of 600 x 800 pixels

▌ A minimum of 120 pixels between the centres of the eyes

▌ Full-frontal Images with no distortion

▌ Equally distributed lighting

▌ A capture distance between 0.7m to 1m

## Supports efficient border clearance

### A single Identity Token for fast border clearance

This solution uses an ID token to capture the traveller's face on the move. The Border Clearance application automatically identifies the traveller using live face capture through an integrated camera and brings up the traveller's profile. The border officer is then invited to select the traveller to be processed.

### Border Officer Web application

Once the traveller has been correctly identified, the application immediately highlights the main information and any alerts, while displaying all the data captured and all verifications performed during pre-enrolment and background inspection checks. Upon verification, the border officer decides to either clear the TCN or to send them for a secondary inspection.

BORDER

IMMIGRATION

## Interacts with Thales Gemalto Border Management System

Our kiosk is part of a complete system from Thales that includes manual border equipment, eGates, biometric scanning solutions, and mobile devices, all supported by our EES-compliant Border Management System. This enables:

▌ Secure real-time data communication between EES Kiosk(s), Border Clearance application(s) and external systems.

▌ Business Logic and EU EES workflow management thanks to the Decision Service.

▌ Traveller Identity Management during the border crossing with the Single Identity Token.

▌ Interfaces to external systems including national border management infrastructure, watch lists and the EES central database.

▌ Automatic recommendations to the Border Clearance Application according to pre-defined rules with Decision Service

## EES Border Management System

**External systems**

| | | |
|---|---|---|
| Single Identity Token DB | Connection to National Border System | Connectors Control List |

BMS · EES · Interpol · ETIAS VIS,... · Other Systems · Decision Service

**Inspection Platform**

| Passport Reader | Face Capture | Fingerprint Scanner | Kiosk | | Face Identification | Workstation GUI |

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