TADI

Fast Track Control

Passenger flow control and
management system

TAD
INDUSTRIES

Fast Track
Control

Our Achievements

TAD Industries is a leading global provider of video analytics systems based on neural networks.

TOP

RANKED IN INTERNATIONAL RATINGS.

High performance in competitions and testing

110+

QUALIFIED SPECIALISTS

Are developing an AI-based platform.

7

COUNTRIES WORLDWIDE

Projects with international partners

40K+

CAMERAS

Clients have already integrated TAD Industries' solutions.

World recognition

TAD Industries machine learning algorithms are annually recognized as the best by international professional competitions and tests

2019

- II place in action recognition on video

ActEV CVPR

2020

- III place in deepfake recognition

kaggle

2022

- Best algorithm in 7 independent tests
- The algorithm set record in 3 tests, surpassing any previous results in testing history

NIST

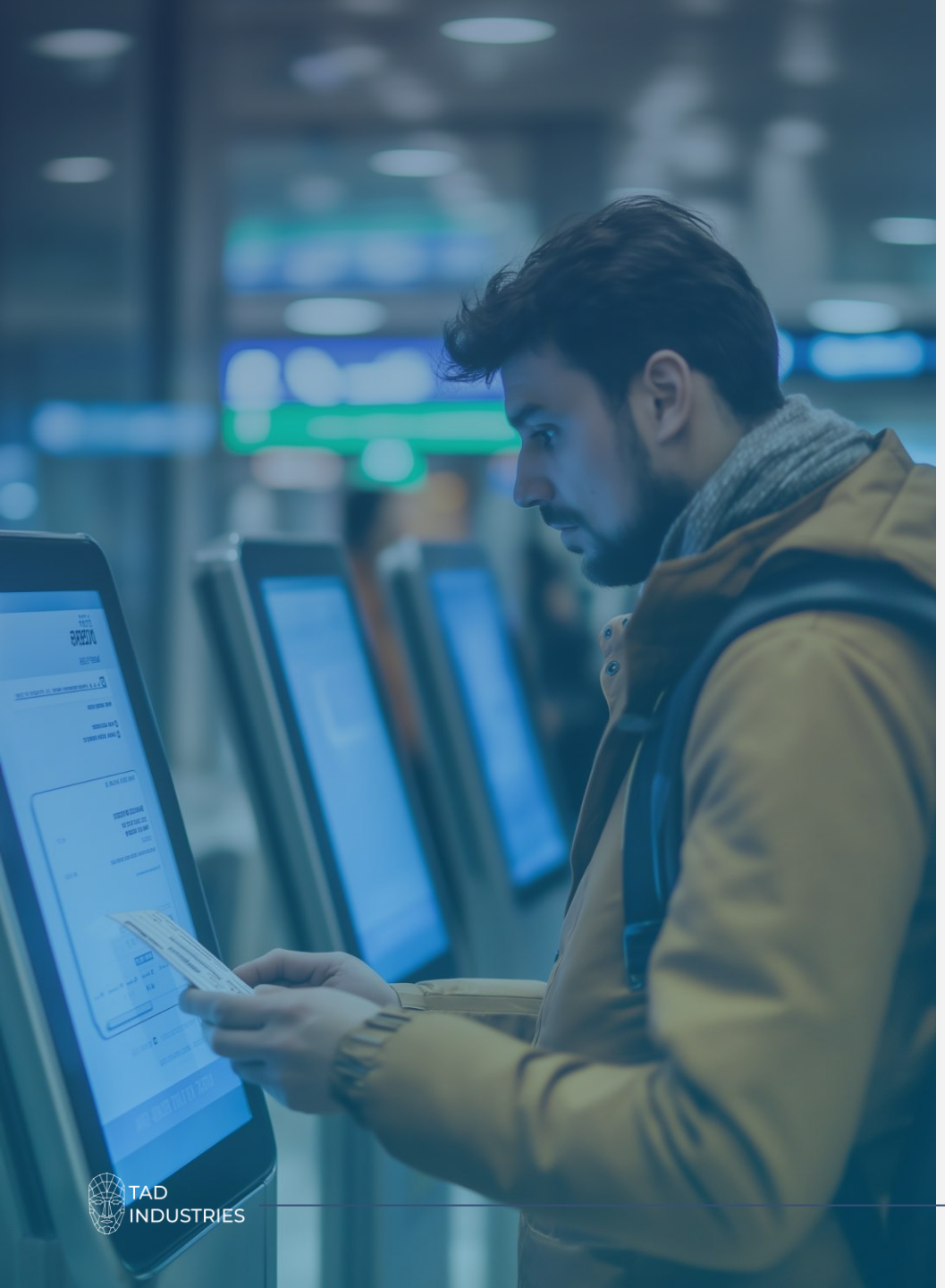
2023

- Presentation Attack Detection Level 2 confirmed that Liveness algorithm meets the requirements of ISO/IEC 30107-3

iBeta

G20 ITALIA 2·0·2·1

Best AI startup among G20 countries



Fast Track Control

automates key airport processes to enhance passenger flow, including access control and movement tracking.

Objectives:

Enhancing airport operational efficiency - automating key processes to optimize operations.

Quick passenger service - minimizing the time required for control and check-in procedures both online and offline.

Data privacy - ensuring the protection of passengers' personal information via advanced encryption technologies and compliance with all security standards.

Reducing staff workload - minimizing manual operations by implementing automated passenger flow solutions.

Fast Track Control Advantages

High precision and speed of algorithms:

- Neural network-based algorithms ensure facial recognition with an accuracy rate of up to 99.9%.
- Minimal data processing time enables instant passenger identification.
- The entire process takes no more than 5 seconds.
- Global leadership in recognition precision and processing speed.

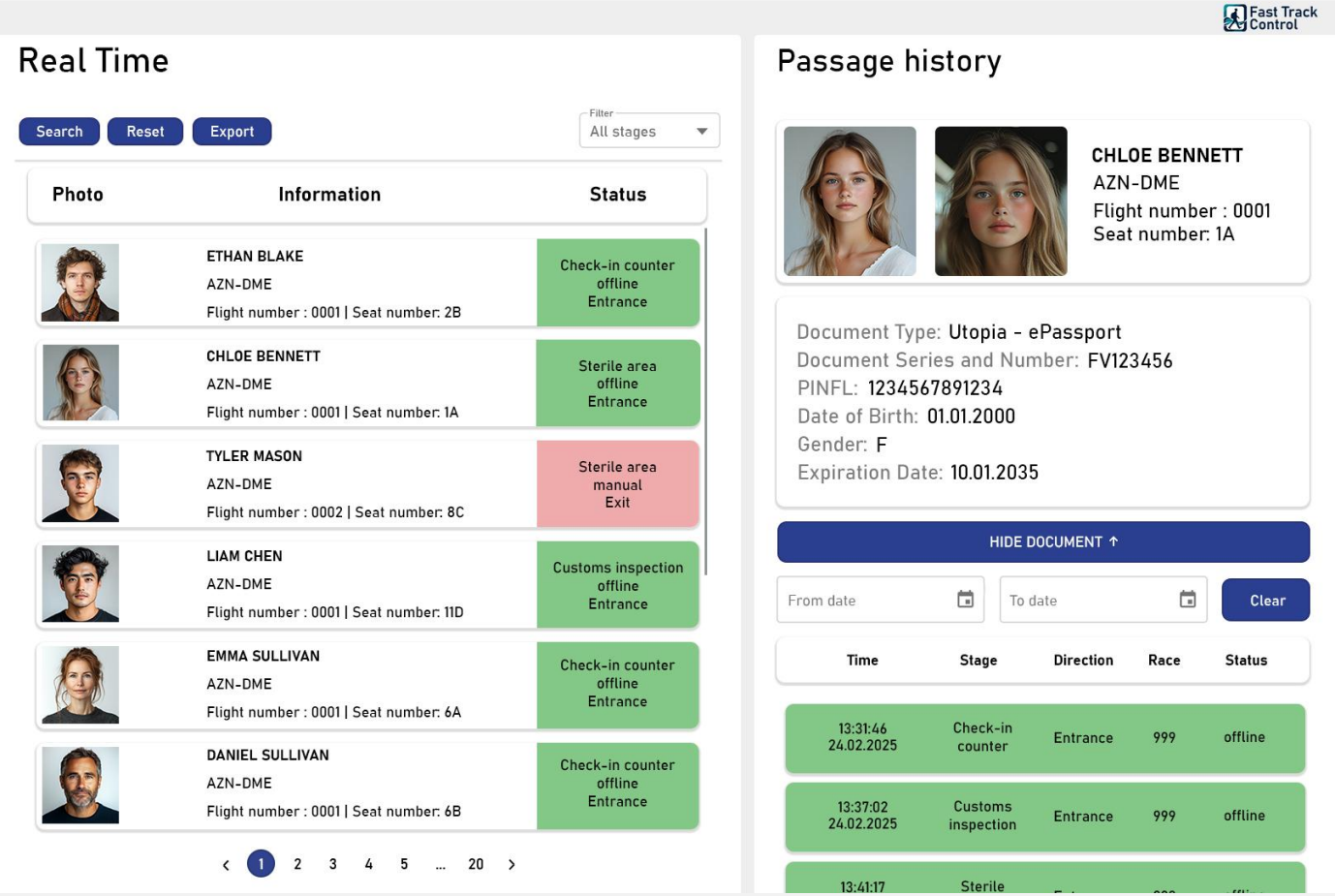
Real-time data for operational management:

- Monitoring key stages of passenger movement with the ability for quick analysis.
- The system generates alerts when wait times exceed thresholds, allowing prompt response to disruptions.
- Statistics and reports are available at any time, simplifying management and planning.

Reliability and security of the system:

- Compliance with global security standards: TADI Fast Track Control algorithms undergo regular testing and certification, including ISO/IEC 30107-3.
- Passenger data protection: high-level encryption of information during transmission and storage, in accordance with GDPR requirements.

Access control and passenger tracking



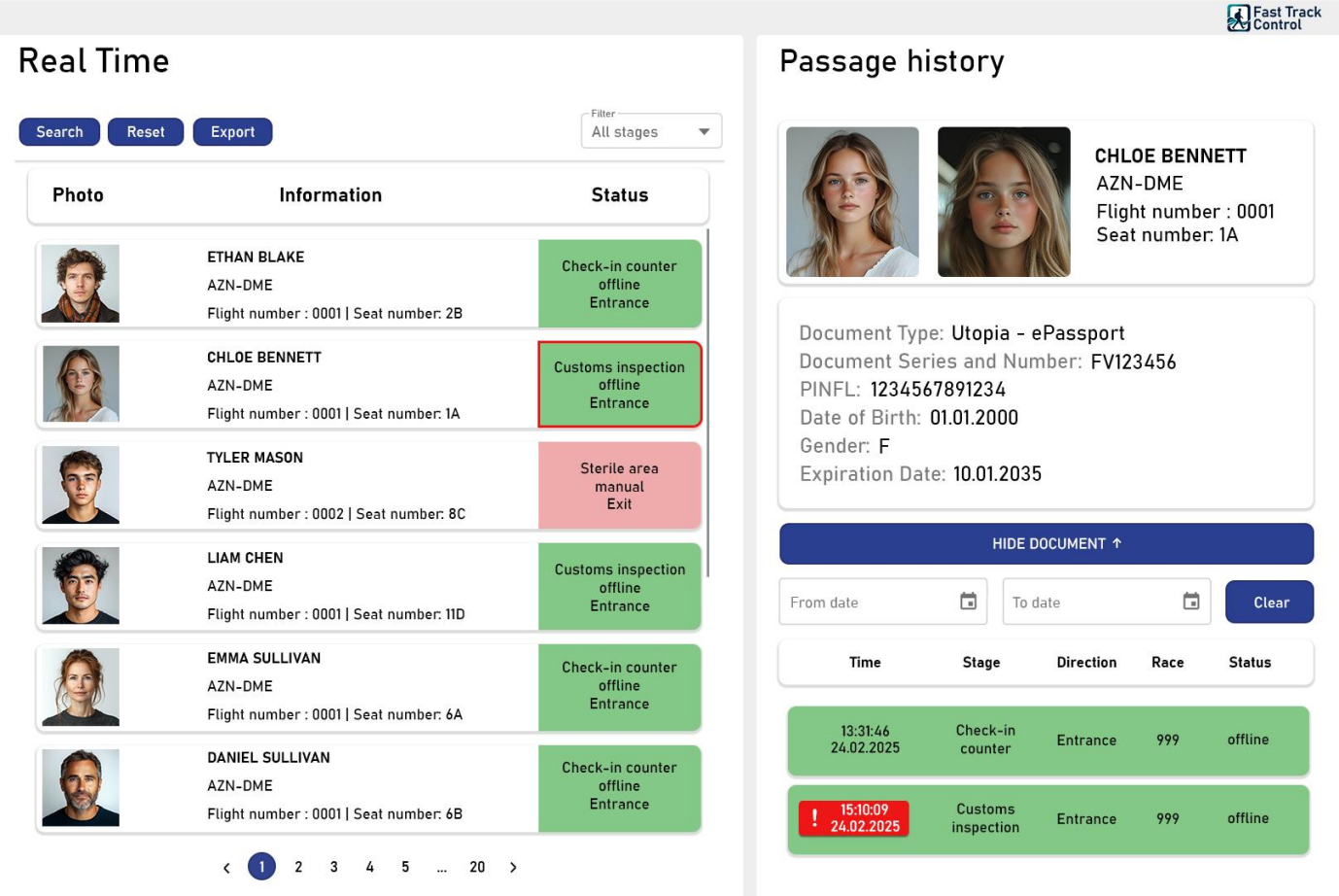
Real-time passenger tracking

The Fast Track Control platform enables real-time tracking of passengers' movements within the airport, from check-in to boarding. This allows for effective monitoring of the entire passenger journey and minimizes potential delays.

Data is collected from various devices: handheld scanners for agents, self-service kiosks for passengers, and automatic eGates (electronic gates).

Compliance with international standards: CUPPS (Common Use Passenger Processing System) and IATA.

Alerts and notifications



Notifications of delays

If there are less than 30 minutes remaining before the boarding process ends and the passenger has not yet reached the sterile area, the system automatically sends a notification to the airport administrator.

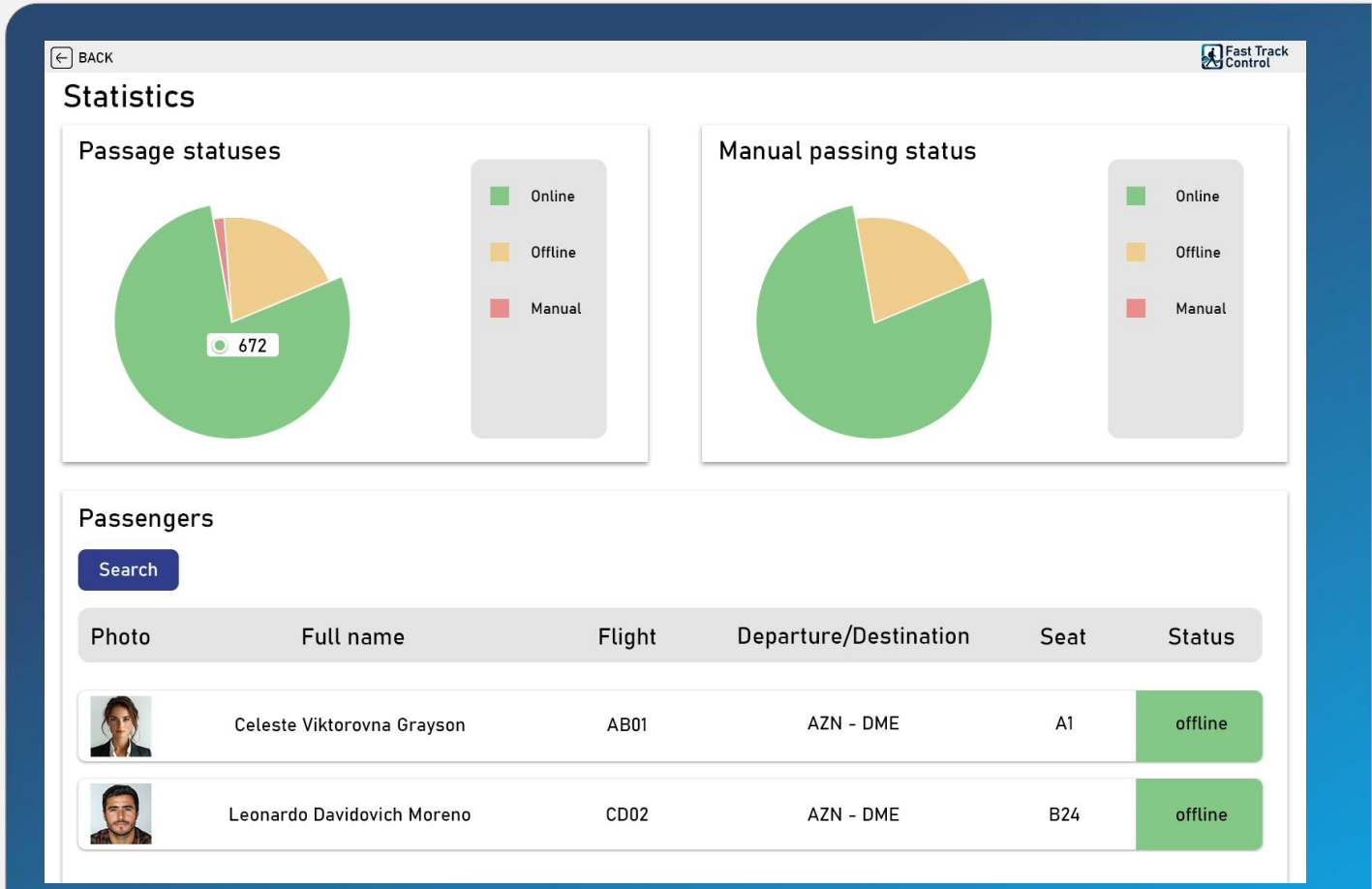
Prompt passenger assistance

Airport staff promptly respond to such notifications, helping the passenger reach the sterile area more quickly. This prevents passengers from missing their flights and reduces the risk of departure delays.

Data analysis and reporting

Statistics generation:
The system enables the automatic generation of statistical data on key metrics, such as number of passengers at various stages of the journey. This helps manage passenger flow more efficiently and assess airport load.

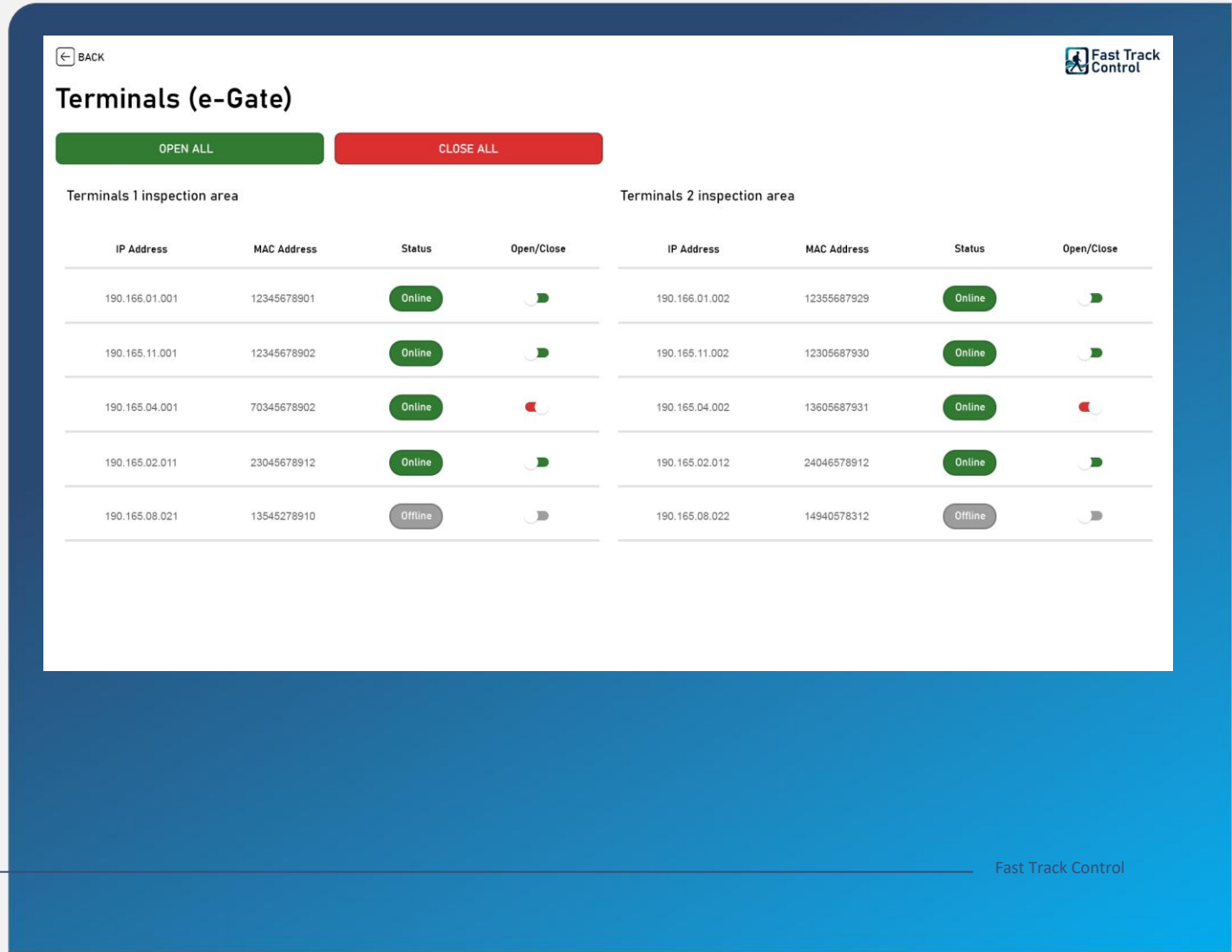
Configuring time filters:
Users can configure filters to analyze data for specific time periods: day, week, month, quarter, or year. This allows for detailed information and analysis at various levels..

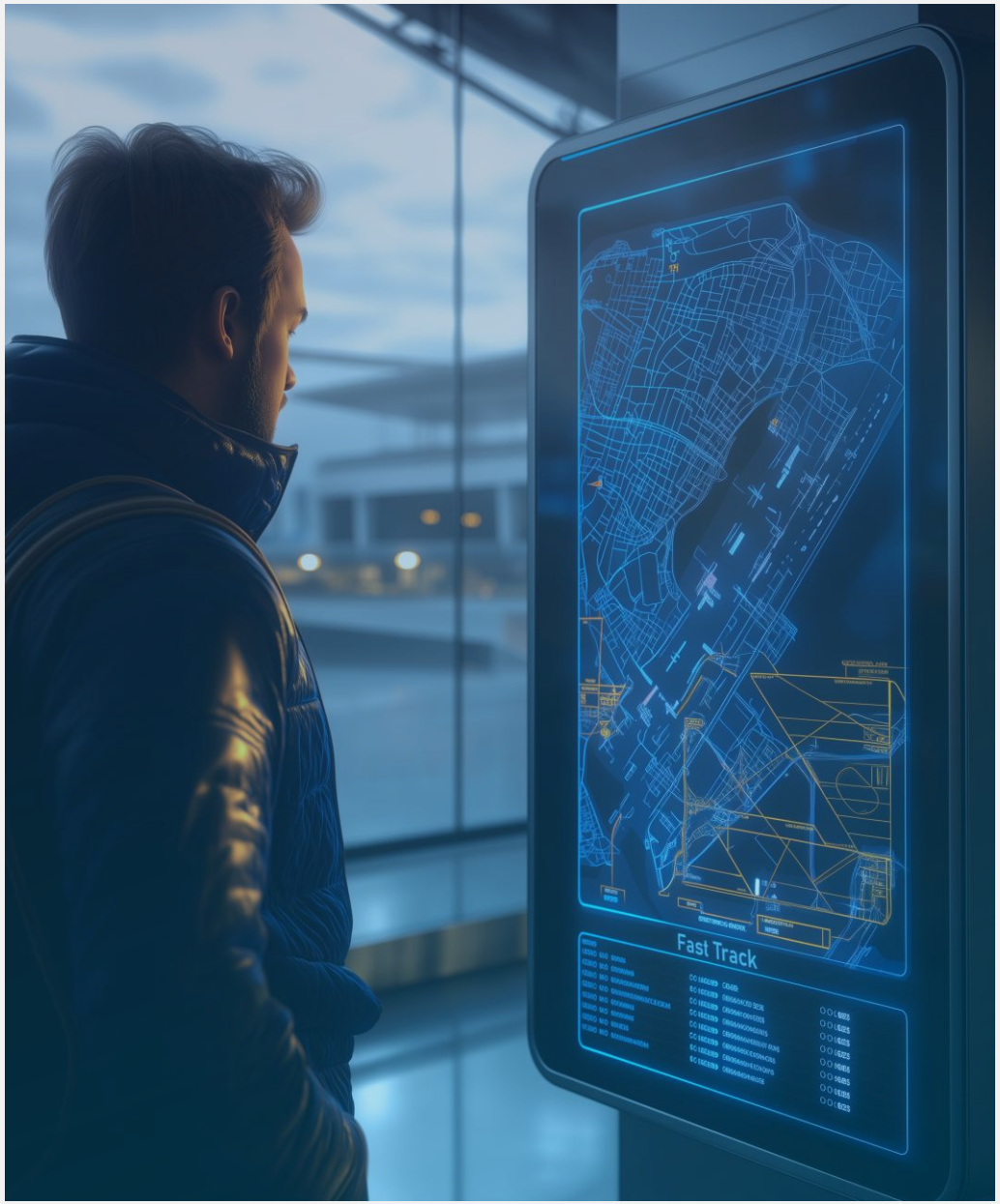


Analysis of device and equipment data

Real-time equipment monitoring:
The system provides continuous monitoring of the status of all devices and equipment, including scanners, terminals, and sensors. This allows quick responses to any technical issues or malfunctions..

Remote management and error logs:
The system allows remote control of equipment, as well as viewing and analyzing error logs. This facilitates maintenance and enables quick resolution of any issues that arise.





Next generation navigation kiosk

Fast Track Control makes navigation intuitive and accessible, providing quick and accurate orientation for passengers at every stage of their journey through the airport.

Navigation for online-registered passengers:
Passengers who have completed online check-in can approach the entrance counter, where their status will be automatically determined through face recognition (Face IDS). The system will then display a 3D route on the screen, directing them to the appropriate check-in counter. This allows online registrants to quickly navigate to the right location.

Navigation in the sterile zone:
Once in the sterile zone, passengers can approach a counter that will display a 3D route on the screen, guiding them to the nearest boarding gate. This solution is available to all passengers, regardless of whether they have completed online check-in.

Passenger flow control and distribution

Fast Track Control ensures precise passenger flow management, minimizing queues and enhancing service quality.

Real-time queue monitoring
The system tracks the number of passengers at each eGate and analyzes gate congestion.

Smart redirection
When overloaded eGates are detected, the system automatically redirects passengers to less crowded gates, reducing waiting times.

Passenger flow improvement
Streamlining the flow helps avoid congestion and speeds up the screening process for all passengers.

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