



ID-GUARD



**BIOMETRIC SOFTWARE PRODUCT
FOR IDENTIFICATION IN THE VIDEO STREAM**



Id-Guard

a software product for biometric identification based on a face image in a video stream aimed at improving the security level

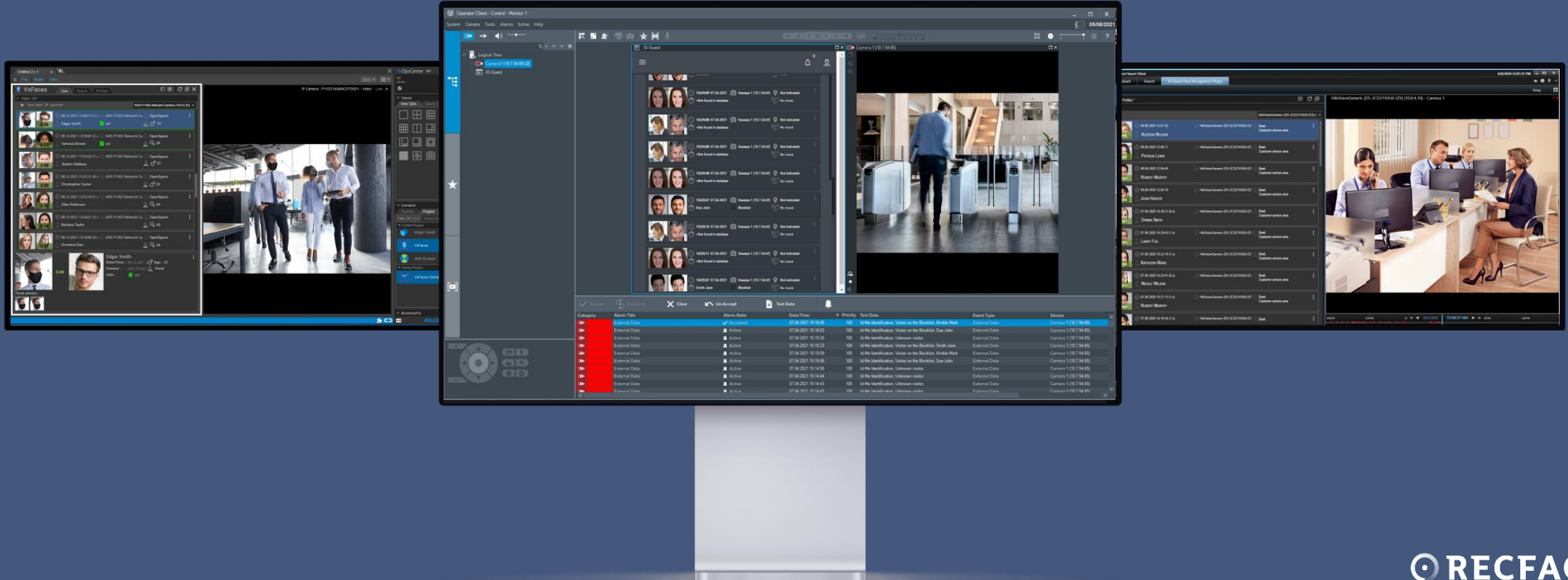
Enriches any **VMS** with biometric functions, providing a tool for rapid response and search

- Identify a person automatically by the face image on the security cameras
- Get prompt notifications when an unauthorized person is detected from a given list
- Provide a quick search for a person in a long-term archive for investigating incidents
- Build the trajectories of the person's movement on the graphical maps



Ready-made software modules for VMS developed by the market leaders

Id-Guard has received international certification from **Milestone**, **Pelco** and **Bosch**, as face recognition plugins in the video stream have been developed for these VMS



Problems of our customers

CCTV system

1 Loss of concentration

Solution

Biometrics helps to be on the lookout and draw employee's attention



Problems of our customers

CCTV system

2 It's impossible to remember everyone

Solution

Biometrics helps to create lists and categories, add access levels and send alerts in case of violations



Problems of our customers

CCTV system

3 The time-consuming process of investigating incidents

Solution

The event size in the archive is 20Kb, so the search takes only 10 seconds



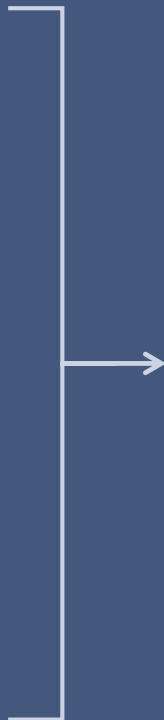
How can biometrics solve common VMS problems?

BIOMETRICS

Instant notifications upon identification of a person from the list (VIP, stop list, without a mask)

All detected faces are stored in a **long-term** archive with minimal use of disk space

Uploading people's data and **categorizing them according to the following lists**: stop list, employees list, visitors of the company list



RESULT

The video surveillance system starts to work in real-time. Automatic notifications allow you to quickly respond to incidents

A quick search for the necessary person by photo in the archive with the information about places, time, as well as building **a trajectory of movement around the site**

Setting up a notification policy for Security Service staff, depending on the person's membership to a **particular list or his/her access level**

What does the Id-Guard user get?



01

It takes **20 MINUTES** to install the Id-Guard solution

02

The identification process using biometrics takes **LESS THAN 1 SECOND**

03

Zoning and setting up policies for **EACH** camera

04

EASY setup of notification tools, messengers, signals on the screen

05

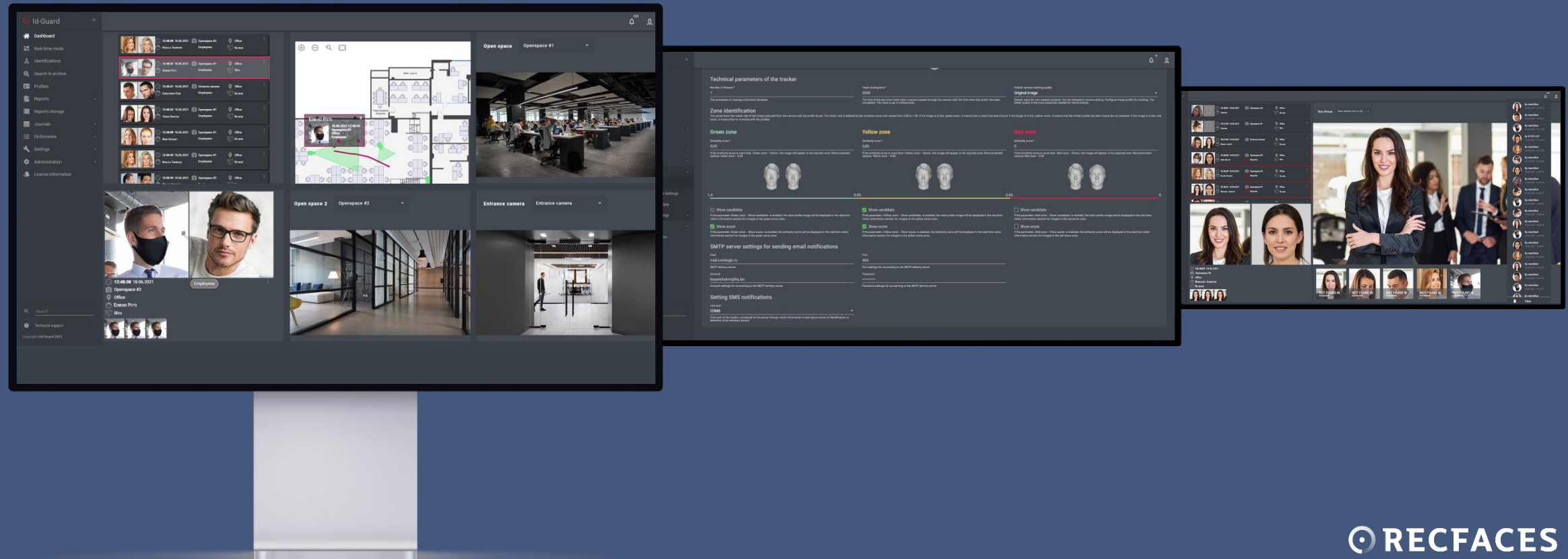
A CONVENIENT mobile application for security service employees who are not at the post

06

WELL-ESTABLISHED release policy and technical support

Full-featured interface

A well-designed interface provides quick and convenient user access to all the functions and capabilities of the solution, ensuring high efficiency of utilizing new biometric capabilities



Advantages of the solution

- **Configurable OPERATOR WORKPLACE**

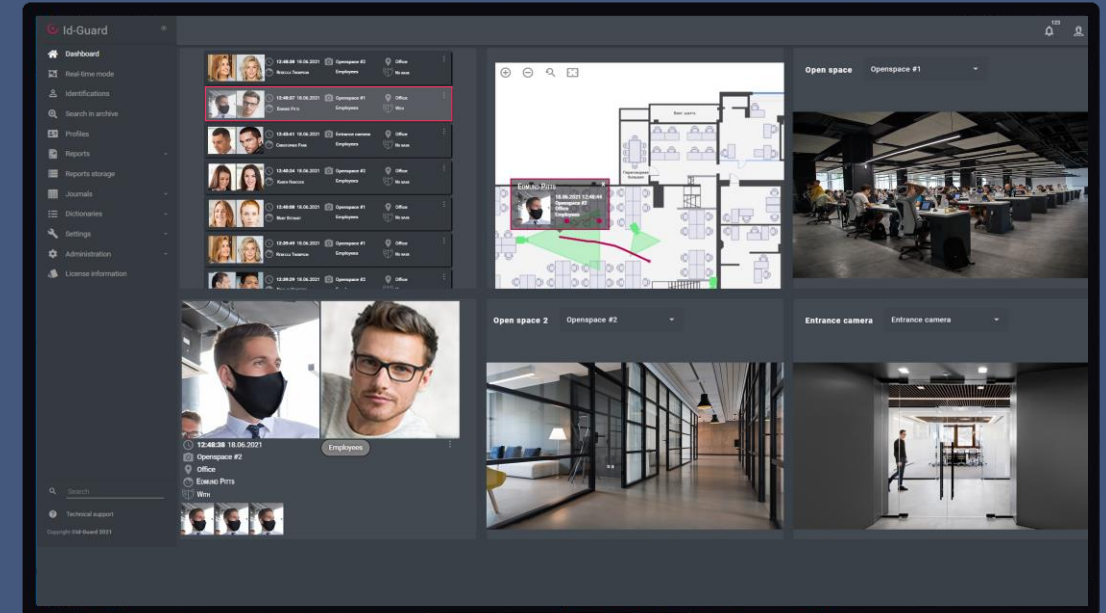
Depending on the tasks of each operator, a set of widgets is available in the solution for the individual configuration of the dashboard to increase the efficiency and convenience of data processing

- **SETTINGS**

A wide range of available parameters of the solution allows the administrator to configure the most favorable mode of its operation, taking into account the specifics of the application at a particular security facility. The visual interface of the solution with color hints allows you to minimize errors in the configuration process

- **ROLE MODEL**

The role model allows you to flexibly configure access rights to various sites and functions in the solution following existing security policies



Advantages of the solution



- **FLEXIBLE NOTIFICATION SYSTEM**

Depending on the role, notifications can be flexibly configured for the selected location, camera, list, recognized/unrecognized visitors. Notifications are sent in the interface and mobile application, via e-mail and SMS for rapid response to security incidents

- **TEMPORARY WATCH LIST**

If a certain person has drawn the attention of a security officer in the operational mode, the security officer can quickly add the person to the temporary watch list and receive notifications about the places of detection and the route of movement. After a day, the profile of this person will be automatically deactivated in the system

Advantages of the solution

- **ZONE MONITORING**

Areas with different access lists can be defined on each site. Due to the functionality to set rules for each camera on the site, it is possible to provide automatic control of access violations in the areas

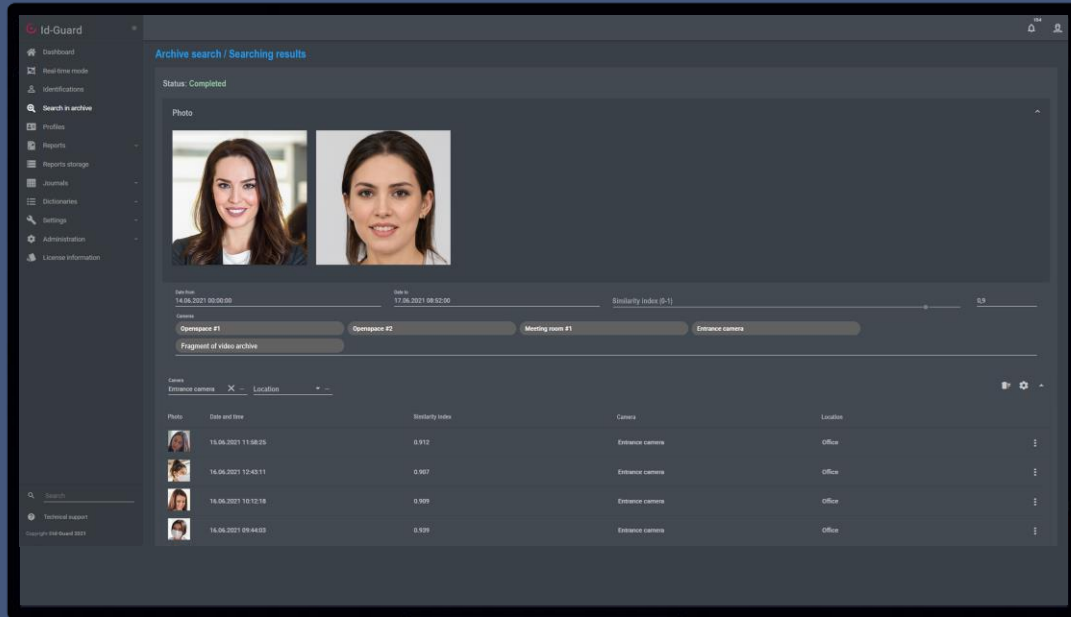
- **INTERACTIVE MAPS**

The solution allows you to upload graphic maps of locations with the possibility of placing identification cameras on them to simplify the rapid response to an incident

The solution allows you to build a route of a person's movement to speed up the investigation of incidents



Advantages of the solution



- **BIOMETRIC ARCHIVE**

When processing video streams, all detected faces are saved to the solution archive. The size of the event in the archive does not exceed 20 kb and takes up less memory than a video archive. Instead of watching the video archive for many hours, you can upload images of people of interest and get information about the date and place of their detection, which allows you to effectively investigate incidents and save security service time

- **SEARCH BY PHYSICAL DESCRIPTION**

When saving each event in the archive, the solution creates a set of external attributes of a person, such as a gender, age, the presence of glasses, the presence of a beard, hair color, the presence of a mask. This data is used for a quick initial search of a person by a physical description

Advantages of the solution

- **FACIAL RECOGNITION IN MASKS**

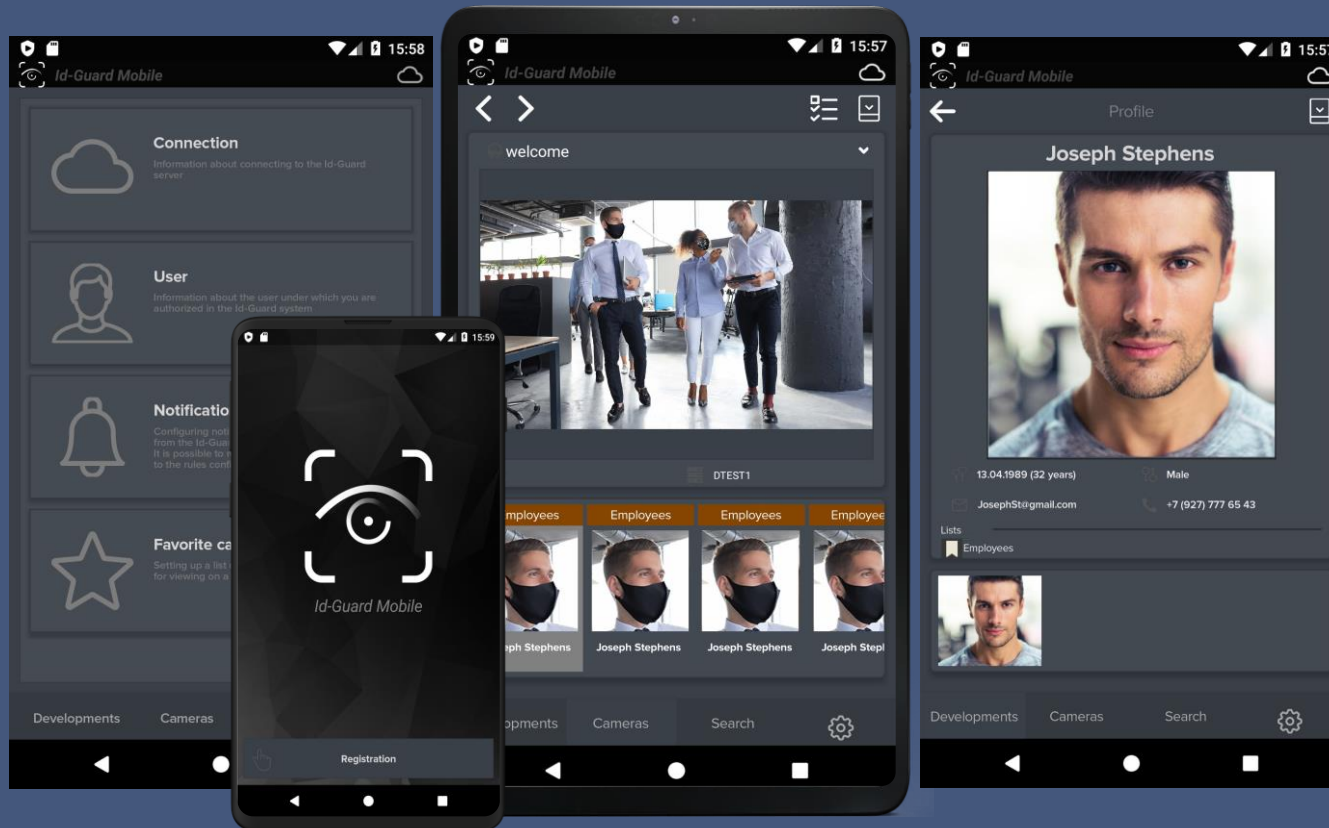
The solution is complemented by the new algorithms and analysts, which ensures rapid compliance with the current pandemic requirements. This allows you to recognize faces with high accuracy even in masks

- **CONTROL OVER WEARING A MASK**

To comply with the mask-wearing policy, the solution allows you to configure automatic notifications for designated scenarios: the mask is on, the mask is missing, the mask is not fully on. A report on detected violations is provided regarding particular people to arrange the information



Advantages of the solution



- **MOBILITY OF THE OPERATOR**

The mobile application allows you to notify and transfer information about the incident, its place, and violators to security officers who are going around the site

Advantages of the solution

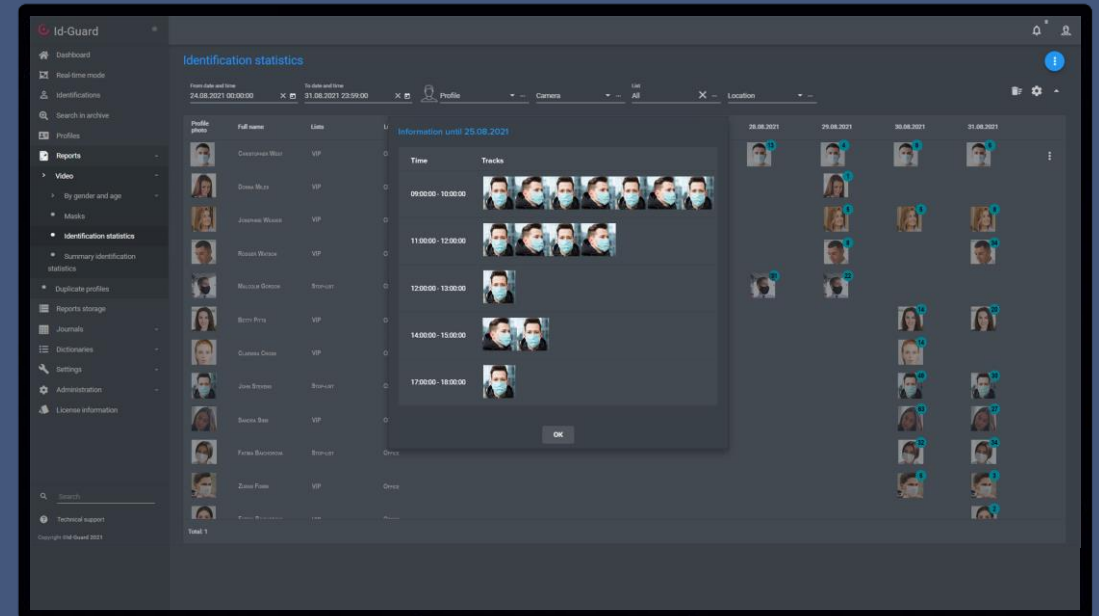
- **REPORTS**

The solution provides a set of reports for event analysis in a convenient mode:

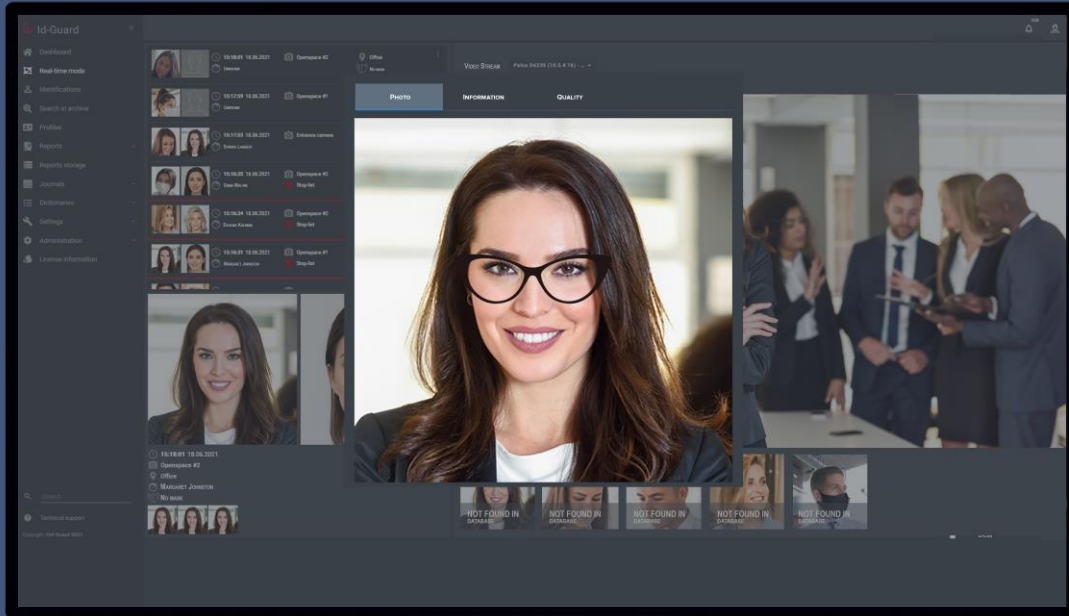
- information about a specific person by date, location, number of passes;
- summary statistics on visitors for the time of interest;
- statistics on the gender and age of visitors for the time of interest;
- statistics on passes "in a mask" and "without a mask".

- **CONVENIENT EXPORT OF REPORTS**

Reports generated by the operator can be exported in the form of xlsx or csv for the convenience of data analysis and processing. Sending reports to e-mail ensures the continuity of the operator's work with the solution. All generated reports, including reports generated automatically according to a schedule, are available in the report storage to ensure collective work



Advantages of the solution



- **EXTENDED PROFILE**

The profile of each person can be expanded with additional photos to increase the accuracy of the solution operation. This is especially true when working with low-quality original photos

- **AUTOMATIC PROFILE UPDATE**

To ensure high accuracy during the long-term operation of facial recognition systems, it is necessary to take into account changes in a person's appearance. The solution receives photos of a person, complements the profile with the best images, eliminates outdated ones, and keeps the profile up to date

Technological advantages



DATA PROTECTION



THIN client



OPEN API



MONITORING
of the system performance



CENTRALIZED MANAGEMENT
of system components



**READY-MADE VMS
INTEGRATIONS** and specific
examples



HISTORY OF SETTINGS CHANGES
of users activity



GEOGRAPHICALLY DISTRIBUTED
architecture



QUALITY CONTROL of the
parameter of processed image



**SECURITY DEVELOPMENT
LIFECYCLE**

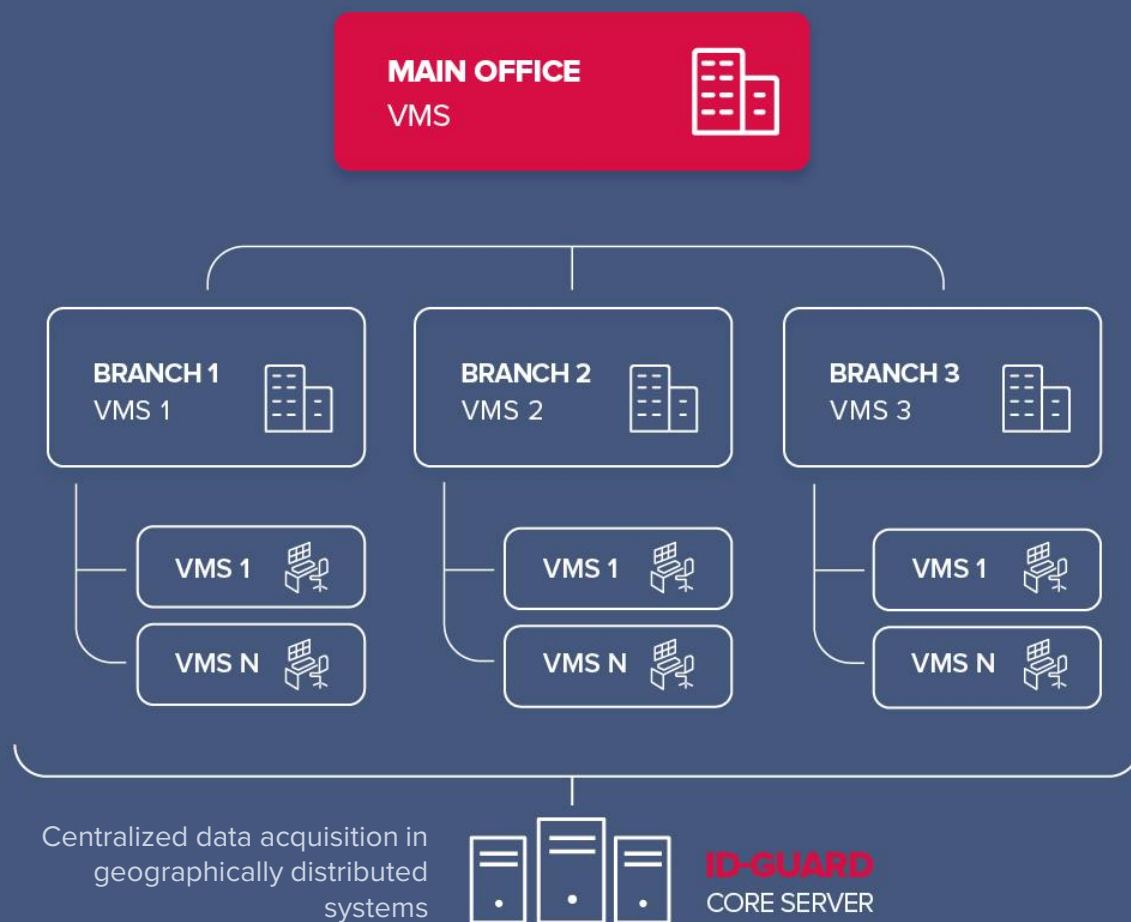


MICROSERVICE ARCHITECTURE



Increased **FAULT TOLERANCE**

Operation with any VMS

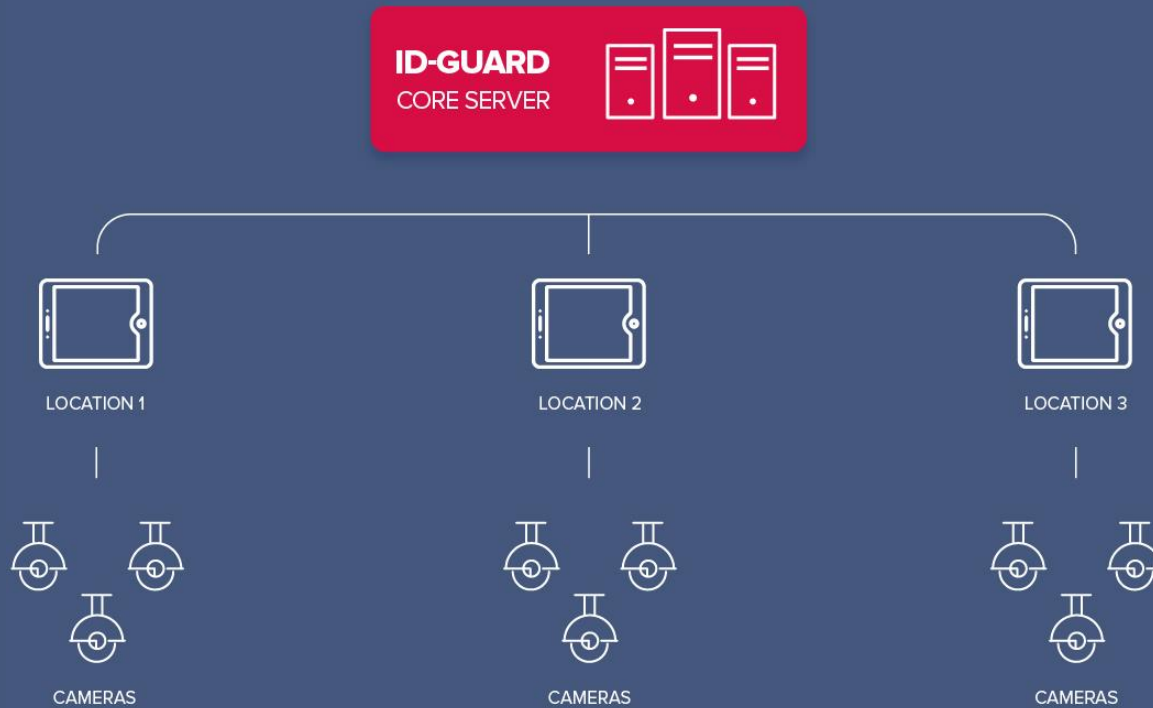


The solution enriches any video surveillance system with biometric functions, provides a tool for rapid response and search in the archive

Due to the direct connection of IP cameras, the solution allows you to work with any video surveillance systems operated at the security facility.

Access to modern facial recognition technologies makes it possible to upgrade existing VMS without extra costs

Geographically distributed architecture



Uniform distribution of the server load allows you to reduce the cost of communication channels. It is possible to install program components with video preprocessing services in the organization's branches to ensure fault tolerance

Small data packets of several kilobytes are sent to the central server. Each package contains a biometric template, an image of the detected face and metadata used for identifying a person

The cycle of a successful project



20 Id-Guard
Installation takes
minutes

Demo license



Free access



**3 cameras
and 1000 faces**

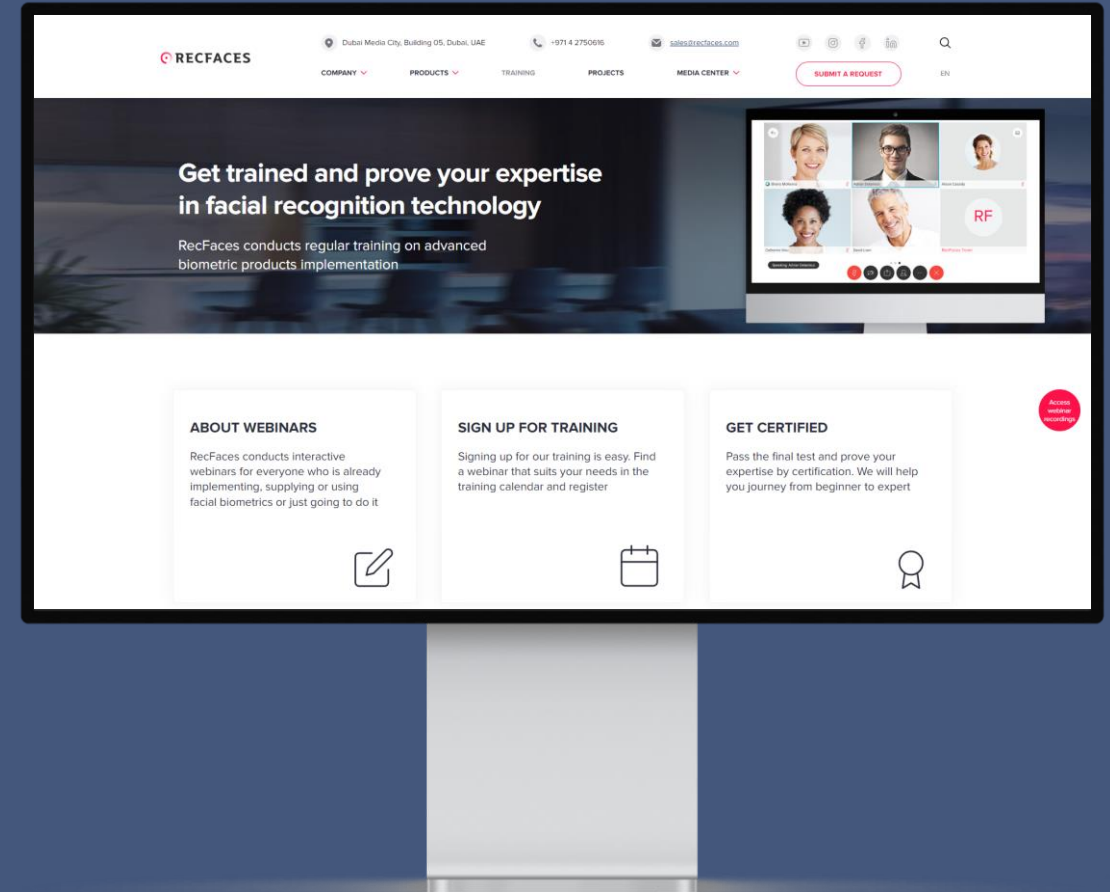


3 months

We share our experience in implementing biometric projects

The advantage of the Id-Guard webinar:

- Free participation and feedback
- Certificate upon the course completion
- Live broadcast and demonstration in real-time
- Providing the materials: recordings, presentations, tests
- Demo license



Course structure

Lecture 1. Sales.

Introduction to Biometrics

General overview of the biometric solution. The purpose of the course is to introduce the partner to the biometric product and the mode of its application

Lecture 2. Pre-sale.

Product Webinar

The webinar is the second part of the product course. It introduces the partner to the solution interface, gives a deeper understanding of the product and its advantages

Lecture 3. Technical.

Administration and fine-tuning

The final part of the product course is devoted to the technical issues of configuring the solution. The user will be able to install the product independently and maintain its operation as a result of the course

Application Areas

Financial and educational institutions, sports facilities, health care and transportation infrastructures, multifunctional centers, business centers and offices

Tasks:

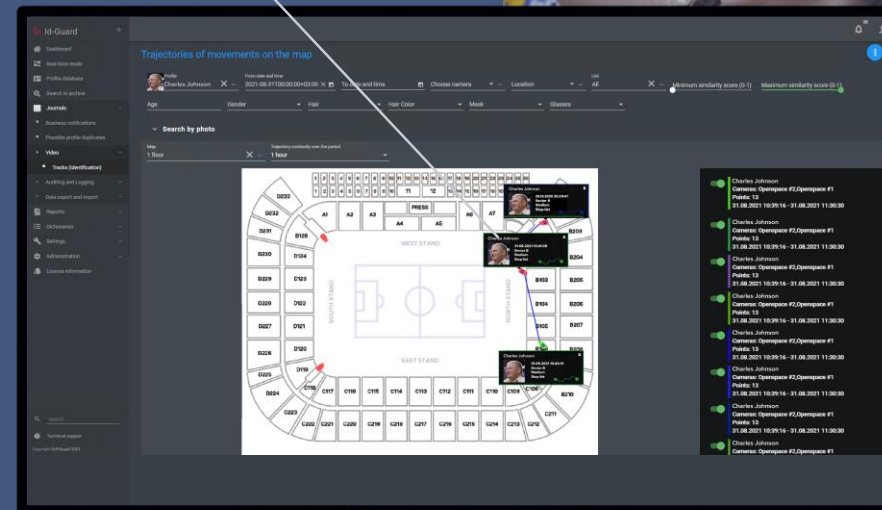
- Instant identification of visitors at the entrance to the site
- Investigate incidents promptly on the basis of accumulated archive data
- Build a trajectory of movement around the area
- Promptly receive notifications about the detection of people in restricted access areas, being at any location of the site and outside of it
- Improve the speed and accuracy of security response at the location with rapid notifications
- Generate reports and statistics on the detection of people from lists or undetected persons



Charles Johnson
Cameras: cam 1
List: guest
Time: 17:39:16

94,3%

Male 50-55



Licensing Policy



Profile database

License for the system core
with a profile database



Number of connected cameras

License for video streams received from
cameras connected to the solution



Technical support

Certificate for technical support
and updates

About RecFaces company

Pool

Of ready-made
biometric products

Among the first

Developed biometric software
products in the world

More than 200

Installations around
the world



International projects

The airport in Kenya, Shopping centers in
Brazil and Peru, Stadium in Australia, Metro
in Thailand, and many others

Team of experts




Developers, technical engineers and
analysts with more than 15 years of
experience in IT

Integration with leading vendors

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