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## ID-GUARD USE CASES

**Id-Guard is a unique software product for biometric identification based on a face image recognition that provides an additional layer of security**

Id-Guard has been developed to help security services and security managers to improve their performance, promptly respond to security incidents at the site, and quickly conduct investigations, excluding long and time-consuming viewing of the video archive.

### WHAT ARE THE KEY BENEFITS OF THE SOLUTION FOR THE USER?

- Instant identification of unwanted people or criminals at the secure facility.
- Instant notification when people appear in restricted areas or places.
- Automatic masks control with the ability to notify the operator and generate reports.
- The small size of the data in the archive allows long-term storage of recognized and unrecognized faces.
- A rapid search of people in the archive provides information on the location and the time of identification.
- A ready-made tool for rapid investigation of security incidents.
- A special tool for building the direction of the person's movement around the secure facility.
- Prompt verification of identity using the mobile app.



### INSTALLATION TAKES 20 MINUTES

**IN JUST 20 MINUTES** YOU GET A READY-TO-USE PRODUCT WITH A SET OF USEFUL AND CONVENIENT FEATURES

The Id-Guard system has to be installed in parallel with an existing or newly created video surveillance system. Id-Guard allows connecting video streams from CCTV cameras, which require biometric identification based on the face image. The solution has a separate and modern interface with a wide range of functions and features.

## Maintaining lists of individuals

The Id-Guard system allows loading information about the people while adding it to one of the following categories: stop list, employees, visitors and others. One can configure a notification policy for security personnel for each of the connected cameras, depending on the person's membership in a particular list or access level. For example, there is an option of sending a notification about an employee or visitor who is not allowed to access some area, or detection of a person from the stop list at the entrance.

## Tracking movement of a person

By loading the secure facility floor plan to Id-Guard and indicating the locations of biometric identification cameras, one can easily display events in a convenient and easy to read form. Additional features for displaying the history of the route for each person, linked to a timeline, allow one to increase the speed of response to incidents and simplify their investigation. For example, tracking the route of the violator on the building floors helps to determine their predicted location and quickly take measures to detain that person.

## Archive search

All detected faces are saved in a long-term archive. The data of the Id-Guard system takes up significantly less disk space than the archive of a video surveillance system, which allows you to save and analyze during an extended period of time. The ability to promptly search for a person of interest by photo image in the Id-Guard archive by indicating the location and time of detection significantly speeds up and simplifies the investigation of incidents, thus saving valuable resources and time.

## Mobile application

The Id-Guard mobile app helps security staff who are out of the security point to get information about events and alarms, identify a person, and confirm their identity. The app allows one to check the identity of an employee, who currently does not have a document, which is especially important for large companies with temporary employees.

## Biometric profile

The solution allows one to supplement the profile (card of a person in the system) in a manual or automated more. The system may add additional photos to keep it up-to-date, which allows one to ensure high accuracy of work in case of changes in the visual appearance over time.

## Report generation

The Id-Guard system allows one to generate reports on detected and recognized people with the following attributes: cameras, photos, full names, list membership, date/time, place of identification.

## Notification system

While using the Id-Guard system one can configure automatic notifications to be sent according to a specific set of rules. In addition, such notifications can be sent using various channels. This function allows one to notify responsible employees of the facts of detection and identification of visitors, and promptly respond to emergency situations. Notifications can be easily shown right in the interface, and can also be sent in the following formats: e-mail mailing lists, SMS, web, push, as well as to related information systems via HTTP and the API.

## Integration with Milestone XProtect

By using a specialized plug-in, Id-Guard provides deep integration with the VMS Milestone XProtect video management system. This allows the security service operator to utilize the entire set of the Id-Guard features in the XProtect application. The built-in Id-Guard plugin additionally allows you to display video information on detected events, while event transmission allows one to flexibly configure XProtect responses. These features are already included in the Id-Guard system and do not require additional payment.

## Open API

It is worth noting that an easy to use and full-featured Id-Guard integration with any video surveillance system is available using an open API for developers and integrators.

EXAMPLE OF THE ID-GUARD INTERFACE

Id-Guard track journal

Identifications (Tracks)

Filter configured

Visit	Profile	Full name	Camera	Start date and time	Date and time of the end of the check	In lists	Location	Similarity score	Mask	
		No found in database		16.02.2023 18:55:33				0.554	No mask	⋮
		No found in database		16.02.2023 18:55:28				0.552	Mask below	⋮
		No found in database		16.02.2023 18:55:23	16.02.2023 18:55:23			0.612	No mask	⋮
				16.02.2023 18:55:19	16.02.2023 18:55:20	VP		0.99252	No mask	⋮
				16.02.2023 18:55:10	16.02.2023 18:55:10	VP		0.95183	No mask	⋮
		No found in database		16.02.2023 18:54:56	16.02.2023 18:54:58			0.758	No mask	⋮
				16.02.2023 18:54:35	16.02.2023 18:54:36	VP		0.99695	No mask	⋮
				16.02.2023 18:54:33	16.02.2023 18:54:34	VP		0.99266	No mask	⋮
				16.02.2023 18:54:16	16.02.2023 18:54:18	VP		0.99417	No mask	⋮
				16.02.2023 18:54:01	16.02.2023 18:54:25	VP		0.99438	No mask	⋮

Total: 20000

Id-Guard profile database

Profile database

Profile search

Select a listBce

Portraits in profileAll

Profile activity

Creation date and time, from

Creation date and time, to

Search by photo

Full name	Gender	Age	Phone number	Email	In lists	Active	Date and time	External ID
		35			Blocklist	☑	20.09.2021 17:45:57	⋮
	M	36			VIP	☑	20.09.2021 17:45:05	⋮
	M	35			Blocklist	☑	20.09.2021 17:45:03	⋮
	F	17			Blocklist	☑	20.09.2021 17:45:01	⋮
	—	25			Blocklist VIP	☑	20.09.2021 17:44:56	⋮
	M	27			Blocklist	☑	20.09.2021 17:44:55	⋮
	F	26				☑	20.09.2021 17:38:10	⋮
	M	23			Stop-list	☑	15.09.2021 17:25:03	⋮
	M	35			To track	☑	15.09.2021 17:20:28	⋮

Total: 52

## Trajectories of movements on the map


**Trajectories of movements on the map**

Profile ... From date and time To date and time Choose camera ... Location ...

List All X ... Minimum similarity score (0-1) 0.70 Maximum similarity score (0-1)

Search by photo

Map map1 X ... Trajectory continuity over the period 1 hour



**List of trajectories**

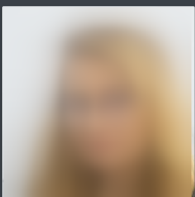
- <Not found in database>  
Cameras: welcome  
Points: 1  
26.08.2020 15:48:11 - 26.08.2020 15:48:11
- <Not found in database>  
Cameras: welcome  
Points: 1  
26.08.2020 16:18:19 - 26.08.2020 16:18:19
- <Not found in database>  
Cameras: welcome  
Points: 1  
26.08.2020 16:18:26 - 26.08.2020 16:18:26
- <Not found in database>

## Search in archive by the uploaded photo

**Search in archive / Search results**

Status: Done




Photo



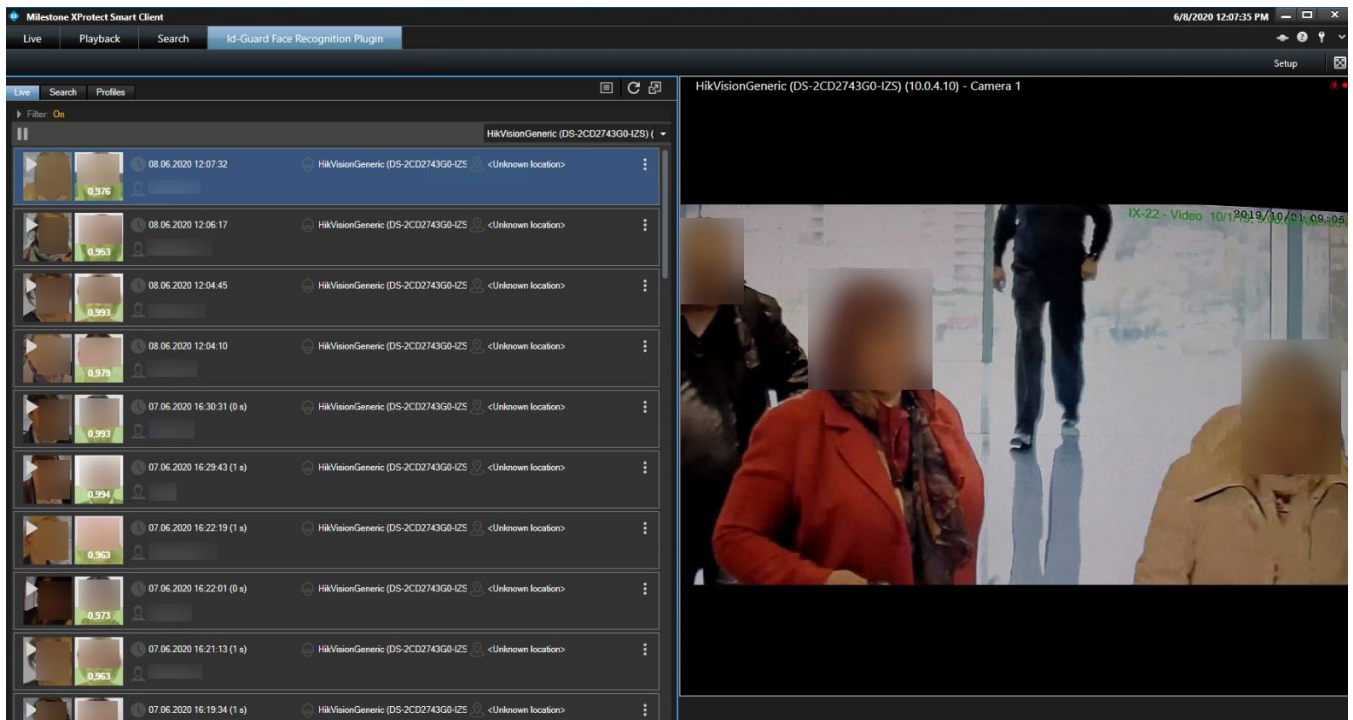
Start date 21.03.2023 00:00:00 X End date 21.03.2023 18:48:00 X Similarity score (0-1) 0.9

Camera Camera1 X

Filter is empty

Photo	Date and time	Similarity score	Camera	Location
	21.03.2023 18:40:35	0.993	Camera1	Office entrance
	21.03.2023 18:40:05	0.993	Camera1	Office entrance
	21.03.2023 17:06:54	0.990	Camera1	Office entrance

## Id-Guard plugin in the Milestone XProtect interface





## TRANSPORT INFRASTRUCTURE, GOVERNMENT, AND INDUSTRIAL FACILITIES, “SAFE CITY” PROJECTS

- Instantly identify wanted persons at the entrance or on the territory of the secure facility, while promptly responding to all security incidents.
- Receive notifications when people are detected in areas of the protected object, where they are not allowed to be. One can effectively investigate security incidents by using the files and detected events.
- Track the movement of the person of interest on the territory of the site.

### USE CASE:

Airports are strategic objects of transport infrastructure, where not only internal aviation security services but also law enforcement agencies are responsible for maintaining order. These facilities are equipped with large-scale VMS, including cameras at all entrances and exits of the airport.

- Security staff has access to databases of wanted persons and dangerous criminals. Uploading this data to the Id-Guard system allows security service instantly receive notifications that a criminal is already at the airport. This helps to prevent possible crimes, thereby increasing the safety of passengers.
- Connecting airport cameras to Id-Guard allows one to quickly respond to incidents committed inside the secured facility. One can upload a photo of a suspect to the Id-Guard system and get real-time information about the location of the suspect for the rapid actions of police officers.
- By using the Id-Guard mobile app, security service employees receive prompt notifications of events and alarms, as well as information about the location of the person of interest. The app also allows one to verify or confirm the visitors' identity.
- It is extremely important to ensure the absence of unauthorized people in the control rooms, in all areas of baggage sorting, enhanced screening zones, and other important services sectors at the airport. The Id-Guard system allows one to use cameras to organize zoning and respond to the appearance of strangers in these areas. Besides, it not only prevents crimes but also disciplines airport employees.
- In case of an incident investigation, Id-Guard allows security staff to quickly search for persons of interest in the archive database for specific cameras, without spending time on viewing hours of archived videos. The operator of the system can get easy access to the information about the frequency and the time of the chosen person visits. The operator can also check all routes of their movements.



# RETAIL FACILITIES

- One can identify users from the stop list right at the entrance of a retail facility, as well as inside of it.
- Promptly receive notifications when people are detected in restricted areas: warehouses, cash registers, technical rooms, and administrative zones.
- Investigate incidents and illegal actions based on accumulated archive data and detected events.
- Track the movement of people in the retail facilities.

## USE CASE:

Shopping centers and retail facilities are extremely crowded, so they tend to be one of the most popular places for minor crimes and thefts. In accordance with modern security principles, shopping centers are equipped with a large number of cameras, which allow controlling the current situation on the territory of the object. However, the security service operator is not always able to fully control the current situation due to the large volume of incoming information, as well as fatigue, loss of attention, and concentration.

- Connecting video surveillance cameras at the entrance of a shopping center or retail facility to Id-Guard allows one to promptly inform the security service about the detection of a person who has previously committed illegal actions. One can proactively track his/her actions, preventing incidents.
- Connecting shopping mall cameras to Id-Guard allows one to quickly respond to incidents committed inside the secure facility. One can use the Id-Guard system to upload a photo of a suspected criminal. After that, the security service receives notifications about their current location for detention until the arrival of police officers.
- The Id-Guard mobile app allows security service employees to receive prompt notifications with photos of people who have previously committed illegal actions and theft. In addition, one can easily see information about their current location.
- The Id-Guard system can be configured to monitor compliance with the rules for access to protected and service areas. At the same time, one can add lists of employees allowed to access specific premises. These Id-Guard features are important for detecting unauthorized people in warehouses, administrative areas, and cashpoints. By using the Id-Guard system with VMS and customizable rules, one can easily organize zoning and quickly respond to the appearance of unauthorized persons in security areas.
- In the case of an incident investigation, Id-Guard helps security personnel quickly search for persons of interest in the archive database for specific cameras, without spending time on viewing hours of archived videos. The operator of the system can get easy access to the information about the frequency and the time of the visits of the chosen person. The operator can also check all routes of their movements.

# SPORTS FACILITIES

- Instantly identify people from the stop list, aggressive fans and wanted persons right at the entrance and territory of sports facilities.
- Promptly receive notifications when people are detected in restricted areas: the opponents' fan section, administrative rooms, locker rooms, technical and administrative areas.
- Investigate incidents and illegal actions based on accumulated archive data and detected events.
- Form and expand the database of aggressive fans.
- Track the movement of people in sports facilities.

## USE CASE:

Football stadiums are often considered to be a high-risk area with a large number of minor crimes and fans riots during matches. This not only discourages civilized fans of the game from attending games but also leads to the permanent repairs and restoration of seats. In addition, significant disciplinary restrictions, monetary fines, and stadium disqualifications may be imposed by football associations and leagues. Therefore, security services at sports facilities, together with law enforcement agencies, have to maintain databases of aggressive fans and restrict their access to the facility.

In accordance with modern security principles, football stadiums are equipped with a large number of cameras. At the same time, the security service operator cannot always fully control the current situation due to the large volume of incoming information, as well as fatigue, loss of attention, and concentration.

- By connecting the video surveillance system cameras at the entrance of the sports facility to the Id-Guard, one can promptly inform the security service about the detection of a fan who has previously committed illegal actions and prevent possible incidents.
- Connecting cameras located on the territory of a stadium or sports arena to Id-Guard allows one to quickly respond to safety incidents. A photo of the wanted person can be easily uploaded to Id-Guard. After that, the operator receives notifications about the current location of the person for the detention until the arrival of police officers.
- The Id-Guard mobile app allows security officers to receive prompt notifications with photos of people previously seen organizing riots, as well as the information about their current location. In addition, one can verify their identity by simply taking a photo.
- The Id-Guard system can be configured to monitor compliance with the rules for access to protected and service areas. At the same time, one can add lists of employees allowed to access specific premises. These Id-Guard features are important for detecting unauthorized people in warehouses, administrative areas, and cashpoints. By using the Id-Guard system with VMS and customizable rules, one can easily organize zoning and quickly respond to the appearance of unauthorized persons in security areas.
- It is really important to control the absence of fans in the fan sectors of the opposing team. By setting up cameras and lists of fans, one can control the fans' movement.
- In the case of an incident investigation, Id-Guard helps security personnel quickly search for persons of interest in the archive database for specific cameras, without spending time on viewing hours of archived videos. The operator of the system can get easy access to the information about the frequency and the time of the visits of the chosen person. The operator can also check all routes of their movements.



# FINANCIAL INSTITUTIONS

- Instantly identify people from the stop list or those who previously committed fraud at the bank entrance, as well as on its territory.
- Promptly receive notifications when people are detected in restricted areas: warehouses, cash registers, technical rooms, and administrative areas.
- Investigate incidents and illegal actions based on accumulated archive data and detected events.
- Form and expand the database of people who committed illegal actions.
- Track the route of the specific person including all the branches of the bank.

## USE CASE:

Every year, new types of fraud appear in the banking sector, with financial losses amounting to tens of millions of dollars. Today biometric technologies are becoming an important tool in the security field. Biometrics is increasingly becoming an integral part of mobile banks, ATMs, and bank branches. Due to the ongoing work to counter fraud, banks have accumulated a large and structured database of people who have committed illegal actions.

- By connecting the Id-Guard system to the video surveillance cameras aimed at the entrances, as well as located inside, and near the ATMs allows one to promptly inform the security service about the detection of a person who has previously committed illegal actions, and prevent possible incidents.
- The Id-Guard mobile app allows security officers to receive prompt notifications with photos of people previously seen organizing riots, as well as the information about their current location. In addition, one can verify their identity by simply taking a photo.
- The Id-Guard system can be configured to monitor compliance with the rules for access to protected and service areas. At the same time, one can add lists of employees allowed to access specific premises. These Id-Guard features are important for detecting unauthorized people in warehouses, administrative areas, and cashpoints. By using the Id-Guard system with VMS and customizable rules, one can easily organize zoning and quickly respond to the appearance of unauthorized persons in security areas.
- In the case of an incident investigation, Id-Guard helps security personnel quickly search for persons of interest in the archive database for specific cameras, without spending time on viewing hours of archived videos. The operator of the system can get easy access to the information about the frequency and the time of the visits of the chosen person. The operator can also check all routes of their movements.

## LICENSING POLICY

The **Id-Guard** system is a complete software product and is distributed by transferring electronic license keys. Such keys are required for the central element of the Id-Guard system, as well as for information sources.

### Profile database



License for the Id-Guard system core element with the biometric database

### Source for obtaining biometric data



License to connect a video camera

### Support



1. Dealing with emergencies during the Id-Guard system operation
2. Timely updates and documentation
3. Consulting on configuring and changing the configuration