

TRASSIR ACCESS CONTROL SYSTEM

Access Control portion of the TRASSIR ecosystem





Access Control System
New module of TRASSIR

CONTENT

Key features

Branded product line of access control hardware

Supports equipment from other vendors

Licensing

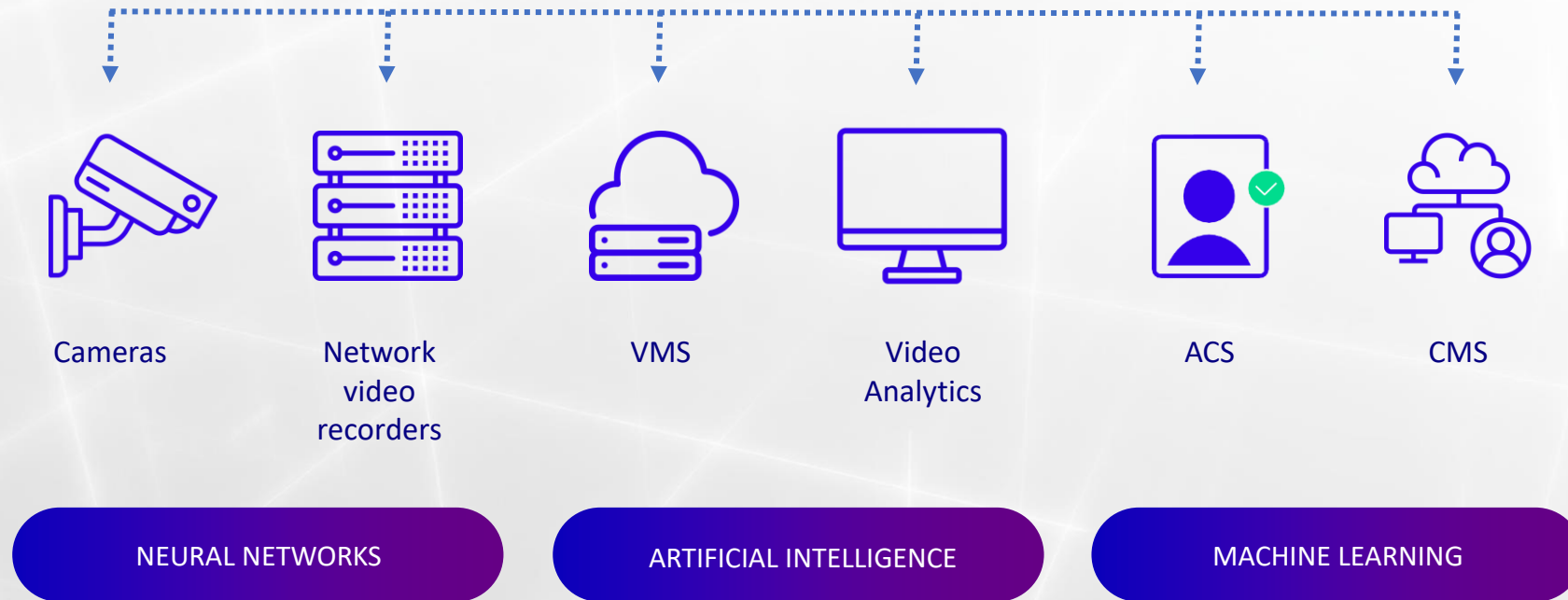
Types of IDs supported

Software features



KEY FEATURES

TRASSIR CCTV Ecosystem



Ability to integrate with other solutions and third-party vendor equipment

KEY DIFFERENCES FROM OTHER ACCESS CONTROL SYSTEMS

- **Multivendor ACS**
(Trassir, HikVision, HiWatch, ZkTeco, TrueIP)
- **Integrated security system**
(CCTV, video and event analytics, fire alarm system, ACS, intercom, cloud technologies)
- **Client customization available**
(Rules, Scripts, Open API)
- **Economy and simplicity**
(No need for an additional server or additional licenses for integration; one license for all features and a user-friendly interface)

A hand is shown using a fingerprint scanner on a door lock. The lock is mounted on a door and has a keypad and a small screen. The background is a hallway with a door and a sign. The entire image has a blue and purple gradient overlay.

TRASSIR ACCESS CONTROL HARDWARE

TRASSIR TR-C241 CONTROLLER

THREE VERSIONS:

1. TR-C241 – Controller board
2. TR-C241B – Board in case with space for UPS and battery installation
3. TR-C241F – Plug&Play version (Board, Case, UPS and battery)

- Network interface..... TCP/IP
- Storage capacity Cards: 10,000; Events: 50,000
- Number of doors 2
- Door reader interface Wiegand (W26/W34)
- Readers per door 2
- Operating temperature..... from -20 to +65 °C
- Operating voltage DC 12 V



TRASSIR TR-R1M MIFARE CARD READER

- Operating voltage..... DC 12 V
- Waterproof level..... Ip64
- Operating temperature From -40 to +70 °C
- Connection interface Wiegand / RS-485
- Indication method Beeper and LED-indicator
- Size 129x76x14.7 mm

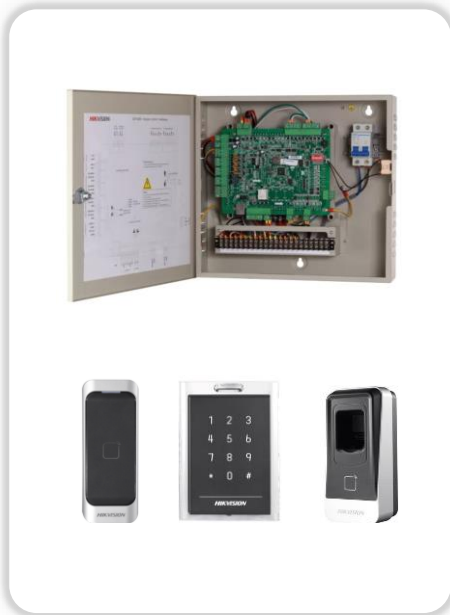


A hand is shown using a fingerprint scanner on a door lock. The background is a blurred office hallway with a person in a white lab coat. The entire image has a blue-to-purple gradient overlay.

SUPPORT FOR EQUIPMENT FROM OTHER VENDORS

HARDWARE. ALL HIKVISION ACCESS CONTROL PRODUCTS

HIKVISION



Controllers



Access terminals with fingerprint recognition



Access terminals with facial recognition



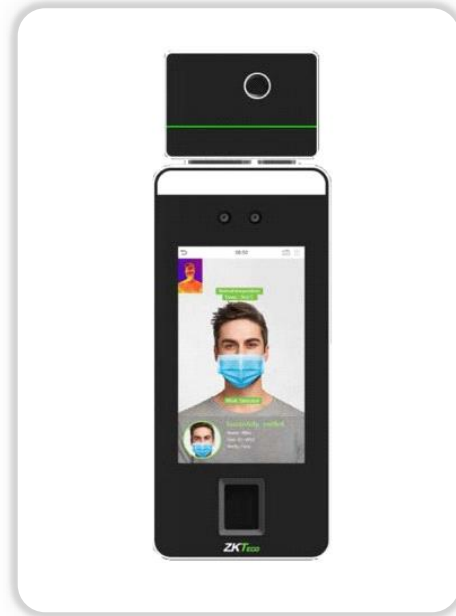
Access terminals with temperature measurement

HARDWARE. ZKTECO

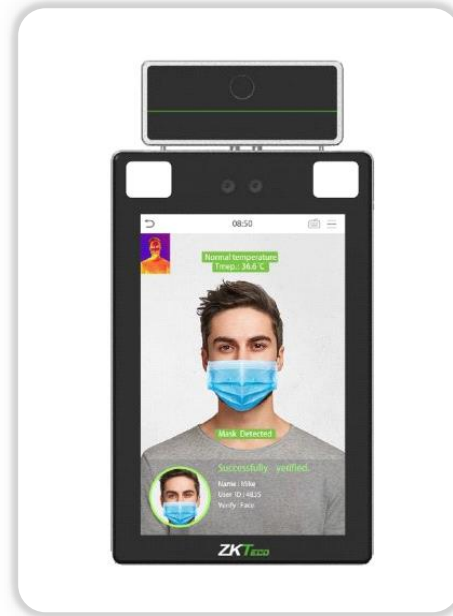
ZKTeco



SpeedFace-V4L



SpeedFace-V5L



ProFaceX



HARDWARE. HIWATCH

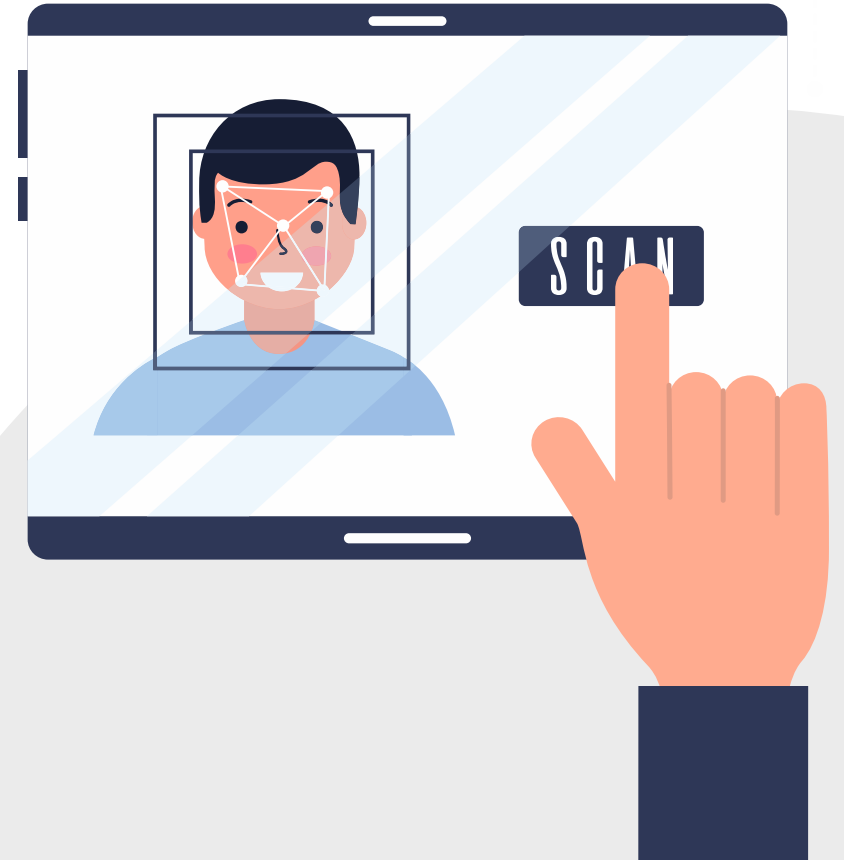
HiWatch



ACT-T1331 / w



ACT-T1341M / MF



INTERCOM. TRUEIP



The following features will soon be available:

Access management on intercom panels

Event, call and alarm notifications

Performance status monitoring

Manual door opener control

They allow:

Get a unified security system at the site

No need to install additional equipment to organize site access

Panels supported in the first release:

TI-2600C • TI-2220WD • TI-2400CM • TI-2308M • TI-4300

LICENSING



LICENSING

Basic license

Extension licenses



“TRASSIR ACS” Module

The license includes the connection of ANY single device

“TRASSIR ACS+1 TRASSIR” Extension

Connection of one additional TRASSIR controller (without face detection)

Extension “TRASSIR ACS +1 HikVision

Allows connection of one additional device (without facial recognition) from Hikvision

“TRASSIR ACS +1 HikVision Face” Extension

Connection of one additional device (with facial recognition) from Hikvision

“TRASSIR ACS +1 ZkTeco Face” Extension

Connection of one additional device (with facial recognition) from ZKTeco

“TRASSIR ACS +1 HiWatch Face” Extension

Connection of one additional device (with facial recognition) from HiWatch

“TRASSIR ACS +1 TrueIP” Extension

Connection of one additional TrueIP device

Ability to connect additional solutions

ADDITIONAL MODULES FOR CONTROLLING CHECKPOINTS



AutoTRASSIR (30)

Neuroanalytic licence plate recognition module



Facial Recognition 2.0

Neuroanalytic module with facial recognition



Neuro Detector

Neuroanalytic module with detection of people, cars and animals



Crowd Detector

Neuroanalytic module with crowd detection



Hard Hat Detector

Neuroanalytic module for detecting the presence or absence of a protective helmet on an individual's head



Wear Detector

Neuroanalytic module for detecting the presence or absence of protective clothing or uniforms (by color)



Face Mask Detector

Neuroanalytic module for determining the presence or absence of a protective mask on an individual's face

LICENSING EXAMPLE

"TRASSIR ACS" Module



Included in the price of the
basic TRASSIR ACS license



"TRASSIR ACS+1 HikVision
Face" Extension



"TRASSIR ACS+1 HikVision"
Extension

A man in a dark suit and tie is standing in profile, interacting with a self-service kiosk. The kiosk has a touchscreen display and a card reader. In the background, there are other kiosk units and a large window with a view of a city. The entire image is overlaid with a semi-transparent purple and blue gradient. The text "TYPES OF CREDENTIALS" is centered in white, bold, uppercase letters.

TYPES OF CREDENTIALS

TYPES OF IDS



Cards



Fingerprints



PIN-codes



Faces



Temperature



License plate numbers





FEATURES

FEATURES

Managing personnel

Access management

Setting up and managing equipment

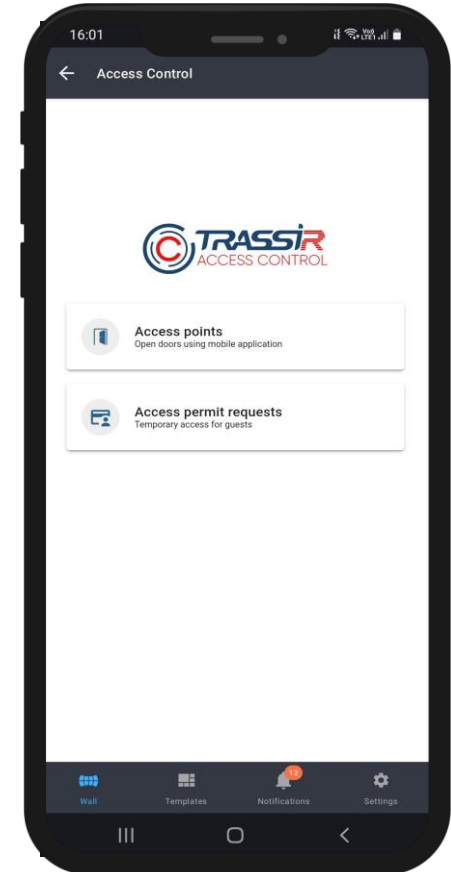
Accounting for working periods

Managing guest credentials

Configuring flexible reactions to events in the system

Working from browser and mobile app

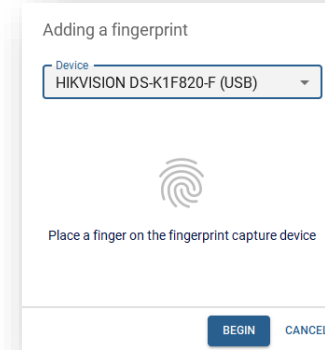
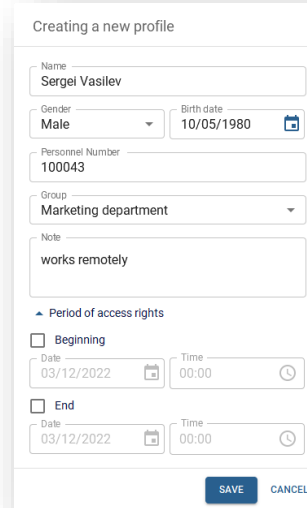
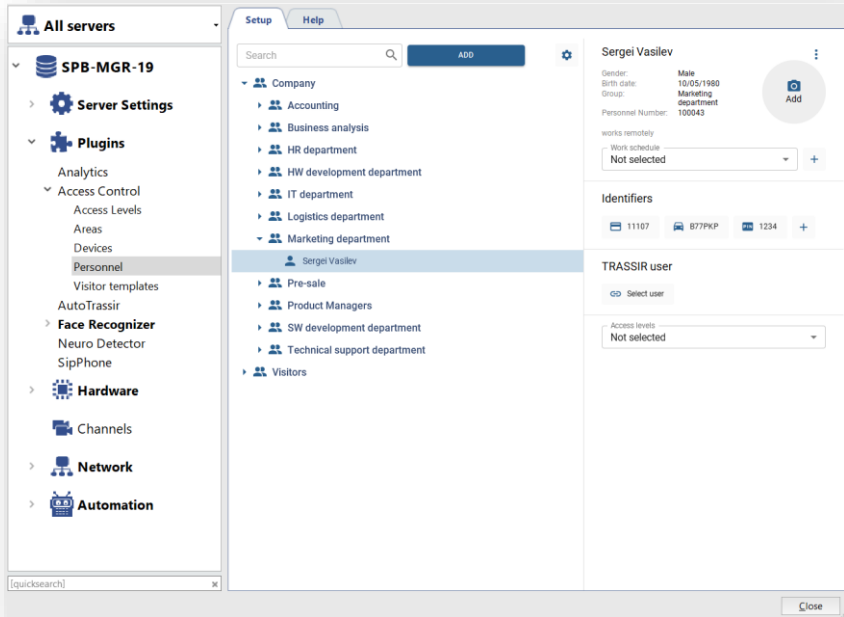
Open API



A man in a dark suit and tie is standing in profile, interacting with a self-service kiosk. The kiosk has a touchscreen display and a card reader. In the background, there are other kiosks and a large window with a grid pattern. The entire image has a blue-to-purple gradient overlay.

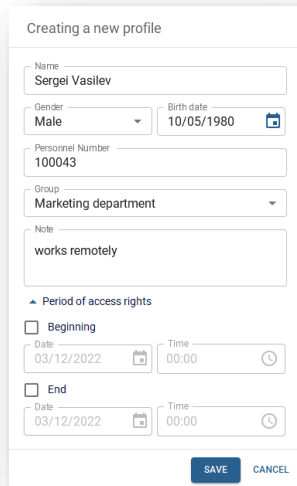
MANAGING PERSONNEL

CREATING AND EDITING PROFILES



You can create new employee profiles, or import them into the system from a preexisting file if you already have a list with identifiers, positions, etc. Employee profiles can be arranged by group, folder, or department. It is also possible to set access levels for which areas certain employees may enter at specific times, and add employee identifiers: fingerprints, license plates, faces, etc. Additionally, there is a function to assign shift schedules and add additional data (name, date of birth, etc.) for employees. Biometric data can be loaded from the terminal.

ADDING OPTIONAL FIELDS FOR INDIVIDUALS



Creating a new profile

Name: Sergei Vasilev

Gender: Male | Birth date: 10/05/1980

Personnel Number: 100043

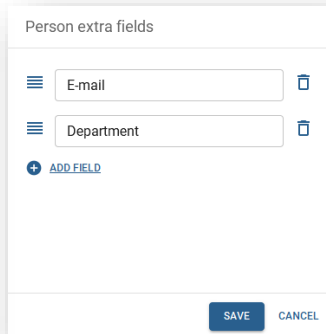
Group: Marketing department

Note: works remotely

Period of access rights

- Beginning
Date: 03/12/2022 | Time: 00:00
- End
Date: 03/12/2022 | Time: 00:00

SAVE CANCEL

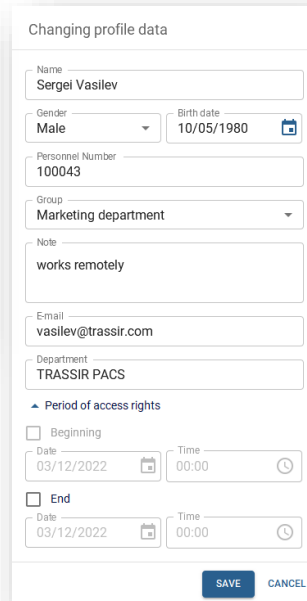


Person extra fields

- E-mail
- Department

+ ADD FIELD

SAVE CANCEL



Changing profile data

Name: Sergei Vasilev

Gender: Male | Birth date: 10/05/1980

Personnel Number: 100043

Group: Marketing department

Note: works remotely

E-mail: vasiliev@trassir.com

Department: TRASSIR PACS

Period of access rights

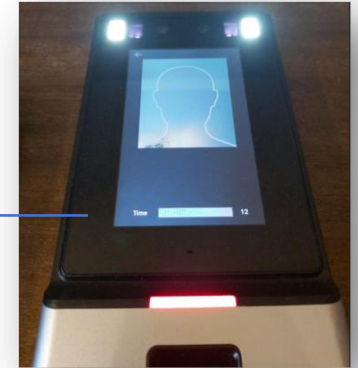
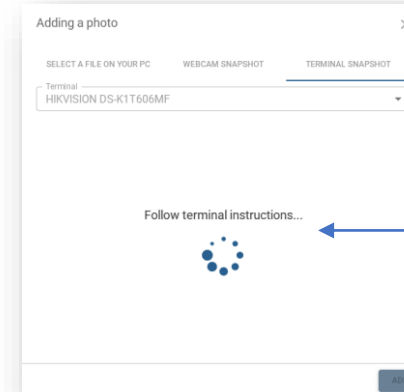
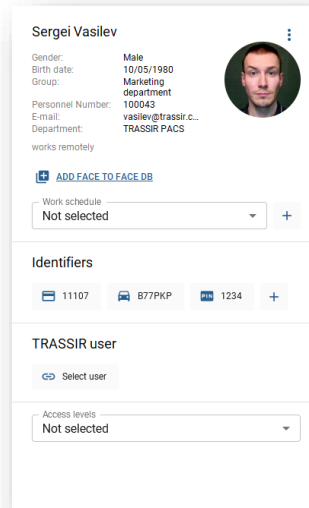
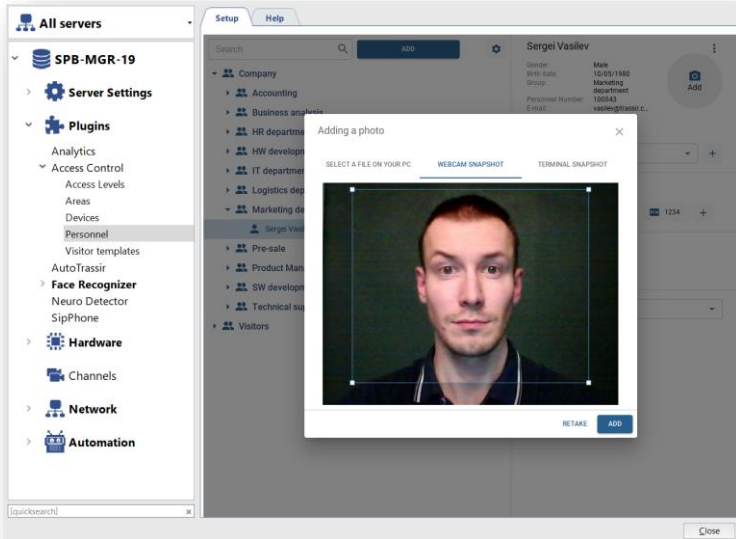
- Beginning
Date: 03/12/2022 | Time: 00:00
- End
Date: 03/12/2022 | Time: 00:00

SAVE CANCEL

The system allows creation of custom fields. To add additional information to an individual's profile, create field, label it (organization, position, contacts for communication, etc.), and this field will be applied to all persons.



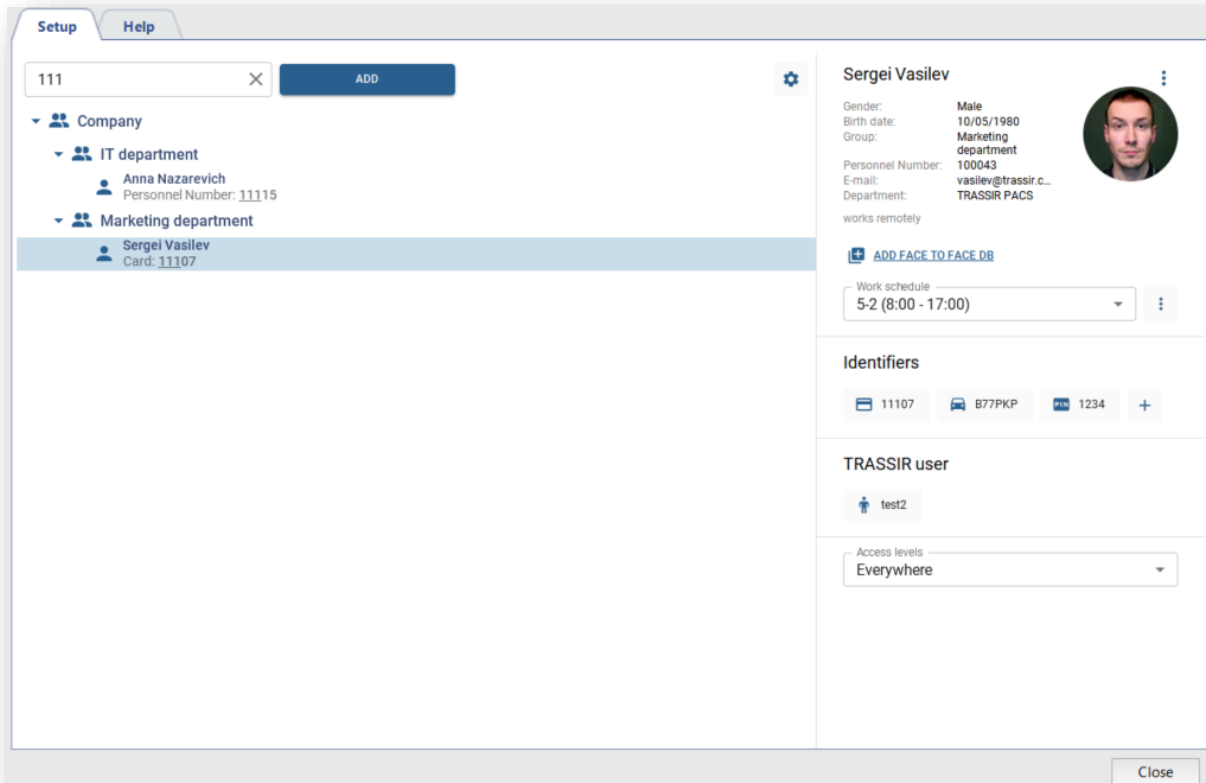
ADDING PHOTOS TO A PROFILE



A profile picture may be added for each person. It can be imported from an existing file or from an access terminal with facial recognition function.



CONVENIENT SEARCHING



Individuals can be found using a quick and easy contextual search of people using any details.



TEMPORARY PERSONS

Creating a new profile

Name: Ivan Dolgov

Gender: Male Birth date: 05/05/1990

Personnel Number:

Group: Persons

Note:

E-mail:

Department:

Period of access rights

Beginning
Date: 03/20/2022 Time: 10:00

End
Date: 03/20/2023 Time: 00:00

SAVE CANCEL

The person is blocked. Identifiers and access levels are suspended until 10:00, 03/20/2022. **UNBLOCK**

Ivan Dolgov

Gender: Male
Birth date: 05/05/1990
Group: Persons
Personnel Number:
E-mail:
Department:

Work schedule: Not selected

Add

Sergei Vasilev

Gender: Male
Birth date: 10/05/1980
Group: Marketing department
Personnel Number: 100043
E-mail: vasilev@trassir.c...
Department: TRASSIR PACS

works remotely

Change
Block
Remove

ADD FACE TO FACE DB

Work schedule: Not selected

Identifiers

11107 B77PKP PIN 1234

The person is blocked. Identifiers and access levels are suspended until unblocked. **UNBLOCK**

Sergei Vasilev

Gender: Male
Birth date: 10/05/1980
Group: Marketing department
Personnel Number: 100043
E-mail: vasilev@trassir.c...
Department: TRASSIR PACS

works remotely

ADD FACE TO FACE DB

Work schedule: Not selected

Identifiers

11107 B77PKP PIN 1234

In TRASSIR ACS, you can integrate temporary persons, i.e. those employees who need to be given access for a limited period. In addition to granting temporary access, temporary blocking is also available.

A man in a dark suit and tie is standing in profile, interacting with a self-service kiosk. The kiosk has a touchscreen display and a card reader. In the background, there are other kiosk units and a large window. The entire image is overlaid with a semi-transparent blue and purple gradient. The text "ACCESS MANAGEMENT" is centered in white, bold, uppercase letters.

ACCESS MANAGEMENT

ACCESS LEVELS

Who? Where? When?

Edit access level

Name

Comment

Access points

- Entrance at office from the parking
- Parking entrance

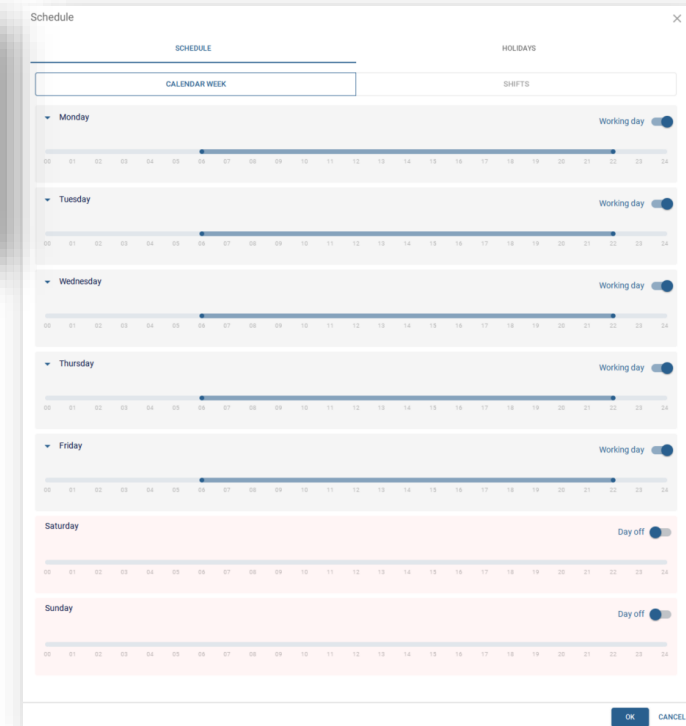
Persons and groups

- Ivan Dolgov
- Petr Romanov
- Sergei Vasilev

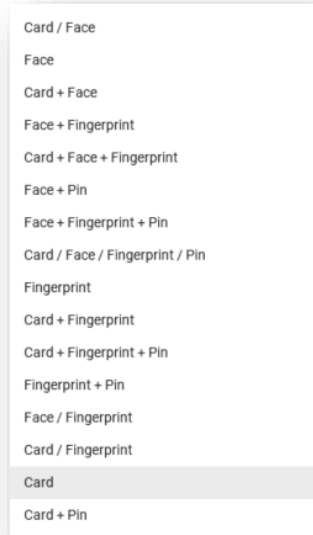
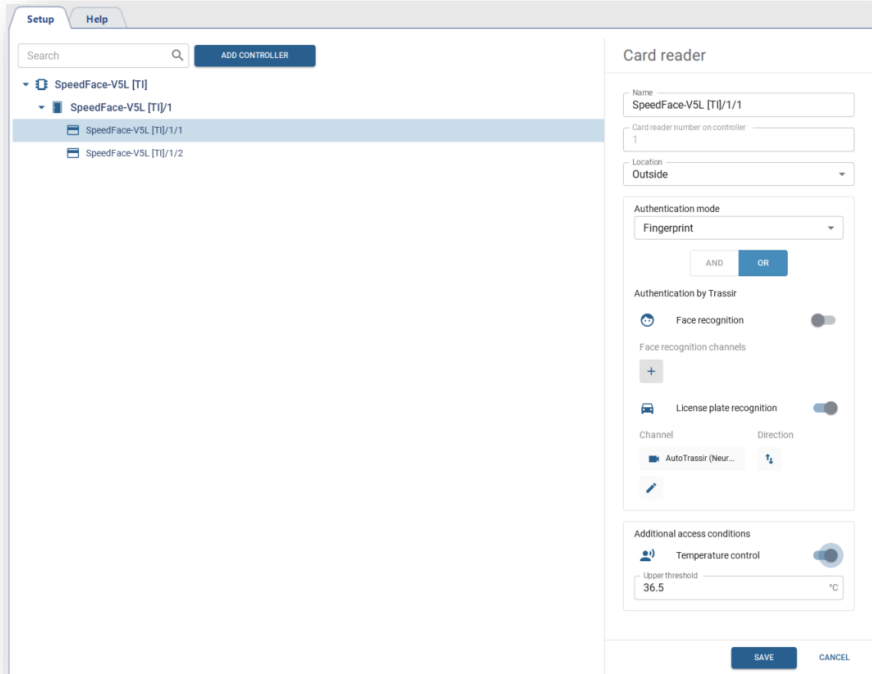
SETUP SCHEDULE

Search	ADD ACCESS LEVEL
Access to the 5th floor	Assigned to: Ignat Kochin, Irina Lee, Ivan Dolgov, Oleg Vasilev
Access to the 6th floor	Assigned to: Anna Nazarevich, Ivan Fedorov, Olga Veselova, Yrii Dolgorukii
Everywhere	Assigned to: Sergei Vasilev
Parking	Assigned to: Petr Romanov

Access levels or access patterns allow you to assign the times when an employee has permission to enter and access specific points. Access levels can be assigned to a specific user or group of users.



MULTI-FACTOR IDENTIFICATION

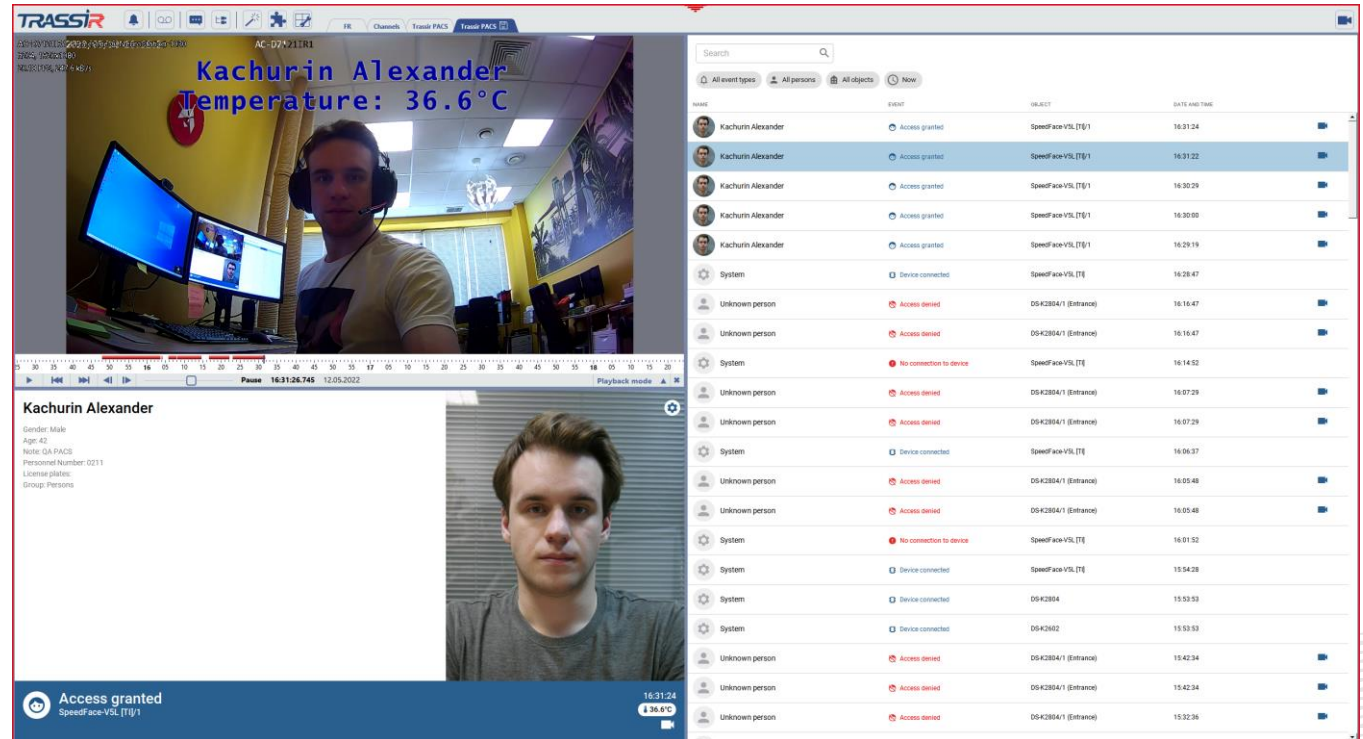


TRASSIR ACS allows for any combination of multi-factor identification



BODY TEMPERATURE ACCESS

The system operator has access to the employee's card, which indicates whether the employee has a heightened temperature when entering. This function makes it possible to track employees who arrived to work with a high body temperature.



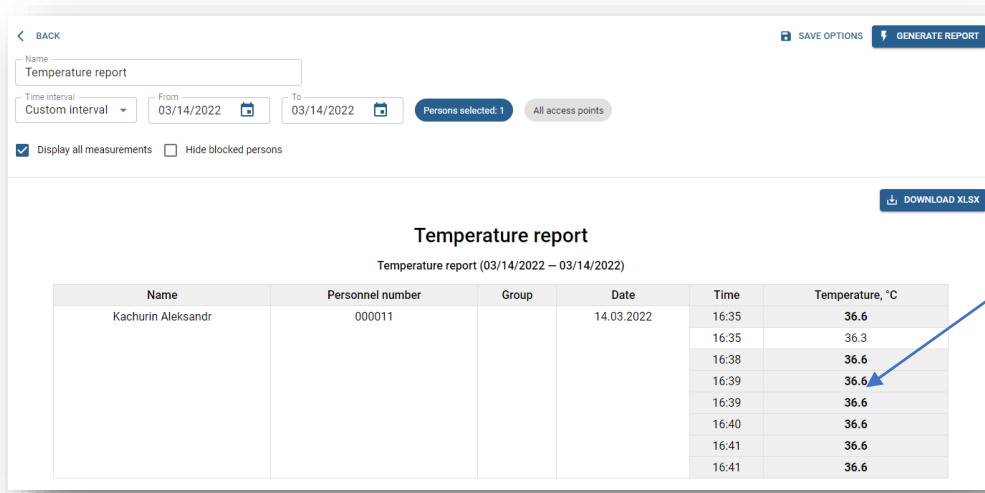
The screenshot displays the TRASSIR software interface. On the left, a video feed shows an employee, Kachurin Alexander, with a temperature overlay of 36.6°C. Below the video, a card displays the employee's details:

- Kachurin Alexander**
- Gender: Male
- Age: 42
- Role: QA PACS
- Personnel Number: 0211
- License plates:
- Group: Persons

At the bottom left of the interface, a status bar indicates "Access granted" and "SpeedFace-VSL [TU] 1" with a temperature of 36.6°C. On the right side, a list of events is shown, including access grants and denials for Kachurin Alexander and unknown persons, along with system messages like "Device connected" and "No connection to device".

Event	Device	Date and Time
Access granted	SpeedFace-VSL [TU] 1	16:31:24
Access granted	SpeedFace-VSL [TU] 1	16:31:22
Access granted	SpeedFace-VSL [TU] 1	16:30:29
Access granted	SpeedFace-VSL [TU] 1	16:30:00
Access granted	SpeedFace-VSL [TU] 1	16:29:19
Device connected	SpeedFace-VSL [TU] 1	16:28:47
Access denied	DS-K2384/1 (Entrance)	16:16:47
Access denied	DS-K2384/1 (Entrance)	16:16:47
No connection to device	SpeedFace-VSL [TU] 1	16:14:52
Access denied	DS-K2384/1 (Entrance)	16:07:29
Access denied	DS-K2384/1 (Entrance)	16:07:29
Device connected	SpeedFace-VSL [TU] 1	16:06:37
Access denied	DS-K2384/1 (Entrance)	16:05:48
Access denied	DS-K2384/1 (Entrance)	16:05:48
No connection to device	SpeedFace-VSL [TU] 1	16:01:52
Device connected	SpeedFace-VSL [TU] 1	15:54:28
Device connected	DS-K2384	15:53:53
Device connected	DS-K2382	15:53:53
Access denied	DS-K2384/1 (Entrance)	15:42:34
Access denied	DS-K2384/1 (Entrance)	15:42:34
Access denied	DS-K2384/1 (Entrance)	15:32:36

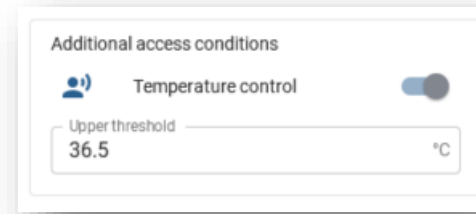
TEMPERATURE MEASUREMENT REPORT



The screenshot shows the 'Temperature report' interface. At the top, there are navigation buttons for 'BACK', 'SAVE OPTIONS', and 'GENERATE REPORT'. Below these are search and filter options: a search bar with 'Temperature report', a 'Time interval' dropdown set to 'Custom interval', and date pickers for 'From' (03/14/2022) and 'To' (03/14/2022). There are also buttons for 'Persons selected: 1' and 'All access points'. Checkboxes for 'Display all measurements' (checked) and 'Hide blocked persons' (unchecked) are present. A 'DOWNLOAD XLSX' button is on the right. The main content is a table titled 'Temperature report (03/14/2022 - 03/14/2022)' with columns: Name, Personnel number, Group, Date, Time, and Temperature, °C. The data shows a single person, Kachurin Aleksandr, with personnel number 000011, on 14.03.2022. The temperature measurements are: 16:35 (36.6), 16:35 (36.3), 16:38 (36.6), 16:39 (36.6), 16:39 (36.6), 16:40 (36.6), 16:41 (36.6), and 16:41 (36.6). A blue arrow points from the text 'Exceeding the threshold value' to the 16:39 (36.6) entry.

Name	Personnel number	Group	Date	Time	Temperature, °C
Kachurin Aleksandr	000011		14.03.2022	16:35	36.6
				16:35	36.3
				16:38	36.6
				16:39	36.6
				16:39	36.6
				16:40	36.6
				16:41	36.6
				16:41	36.6

Exceeding the threshold value

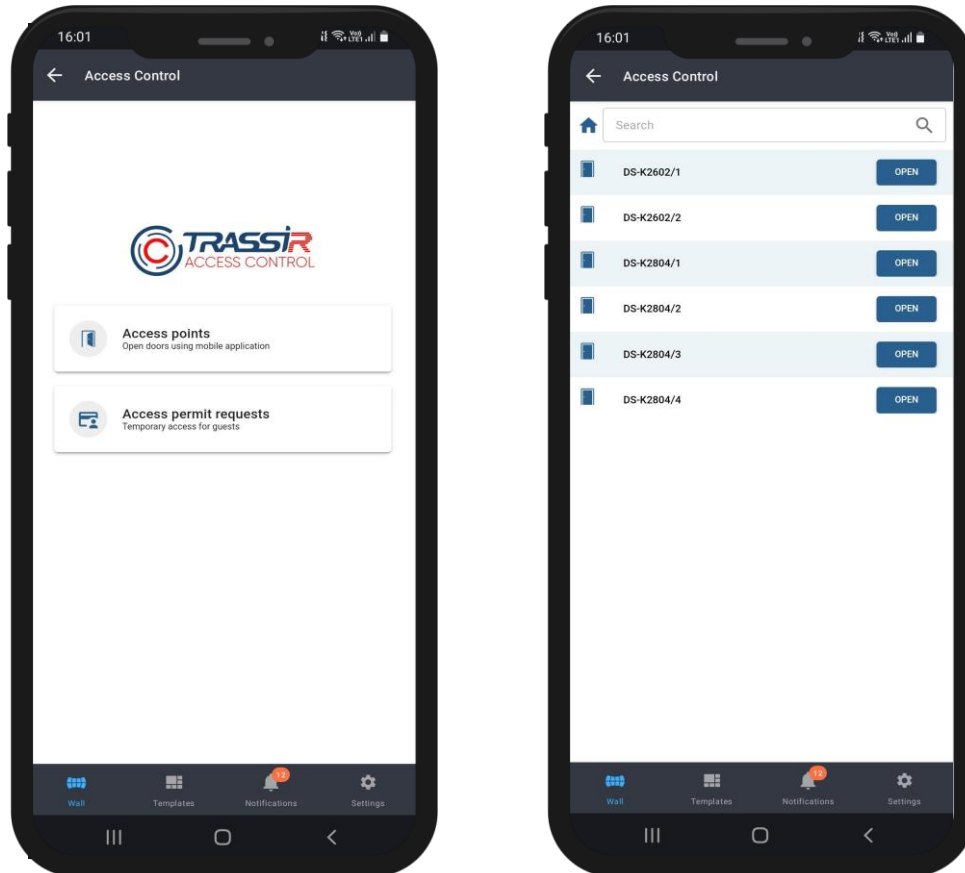


The screenshot shows the 'Additional access conditions' dialog. It has a title 'Additional access conditions' and a toggle switch for 'Temperature control' which is turned on. Below the toggle is a text input field for 'Upper threshold' with the value '36.5' and a unit indicator '°C'.

You can compile a temperature report showing all measurements or only the highest recorded on a given day for a particular employee. TRASSIR ACS highlights temperature measurements that exceed a fixed value



OPENING DOORS FROM THE MOBILE APP



Access points such as doors or barriers can be filtered in the mobile app and opened with the click of a button. TRASSIR ACS identifies who opened the access point by connecting the user with the person. You can also restrict certain employees from opening specific access points.



EVENTS LOG

The screenshot displays the TRASSIR interface. On the left, a video feed shows a person wearing a headset. Below the video, a profile card for 'Kachurin Alexander' is visible, including details like gender, age, name, personnel number, license plate, and group. The main area is dominated by an event log table with columns for user, event type, access point, and time. The table lists various events such as 'Access granted', 'Access denied', and 'Abnormal temperature' for the user 'Kachurin Alexander' at the 'SpeedFace-VIS (T1) 1 (Entrance)' access point. A bottom status bar shows 'Access granted' at 17:01:52 with a temperature of 26.3°C.

USER	EVENT	SELECT	DATE AND TIME
Kachurin Alexander	Access denied		17:00:08
Kachurin Alexander	Abnormal temperature		17:00:08
Kachurin Alexander	Access granted		17:00:26
Kachurin Alexander	Access granted		17:00:22
Kachurin Alexander	Access granted		17:00:21
Kachurin Alexander	Access granted		17:00:19
Kachurin Alexander	Access granted		17:00:00
Kachurin Alexander	Access granted		17:00:00
Kachurin Alexander	Access denied		17:00:07
Kachurin Alexander	Abnormal temperature		17:00:07
Kachurin Alexander	Access granted		17:01:02
Kachurin Alexander	Abnormal temperature		17:01:49
Kachurin Alexander	Access denied		17:01:49
Kachurin Alexander	Access granted		16:59:42
Kachurin Alexander	Access granted		16:59:39
Kachurin Alexander	Access granted		16:59:36
Kachurin Alexander	Access granted		16:59:33
Kachurin Alexander	Access granted		16:59:27
Kachurin Alexander	Access granted		16:59:25
Kachurin Alexander	Access granted		16:58:34
Kachurin Alexander	Access denied		16:58:30
Kachurin Alexander	Abnormal temperature		16:58:30

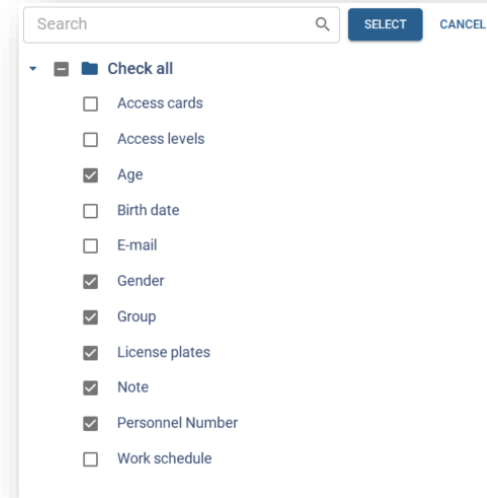
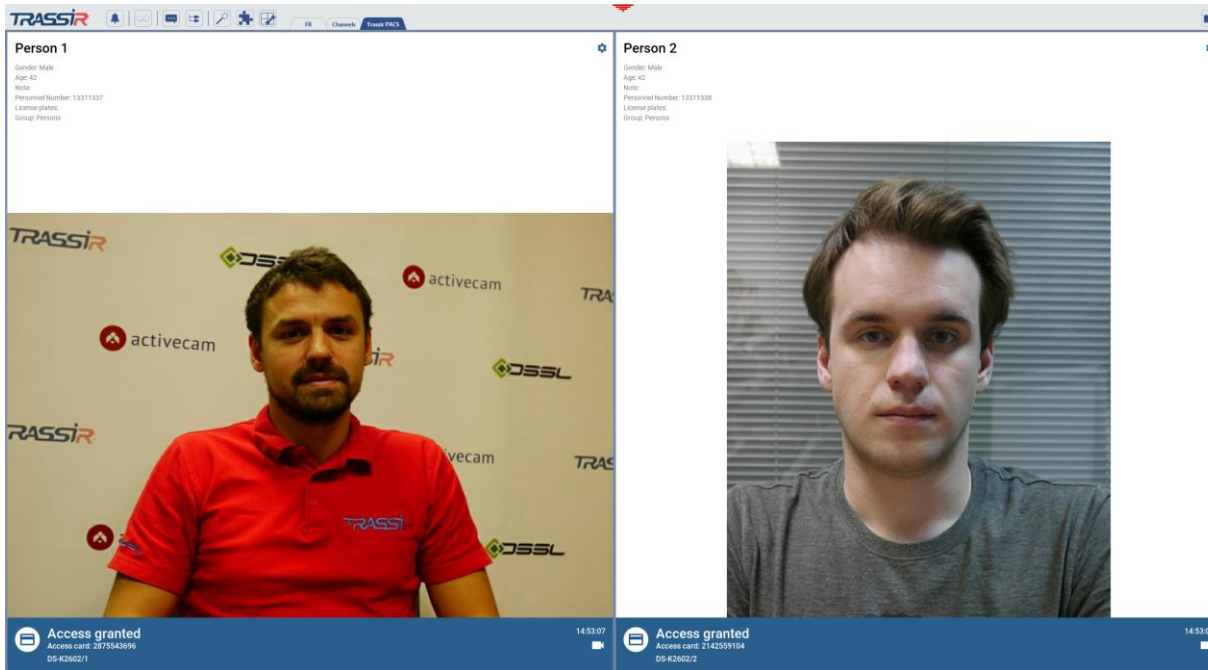
The 'Select period' dialog box allows users to filter events by time. It features buttons for 'Now', 'Today', 'This week', '7 days', 'This month', 'This year', and '12 months'. Below these, there are input fields for 'Beginning' (03/14/2022) and 'End' (03/14/2022), along with 'Time' selection (00:00 and 24:00). 'SELECT' and 'CANCEL' buttons are at the bottom.

The event filter menu shows a search bar and a 'SELECT' button. Under 'Check all', there are checkboxes for various event types: Access granted, Access denied, Pass events, Device state changes, Access point work mode changes, Alarms, Temperature measurements, Intercom events, GPIO input events, and GPIO output events.

The TRASSIR ACS event log can be filtered by event type and period. Click on these events to get camera footage associated with a particular access point.



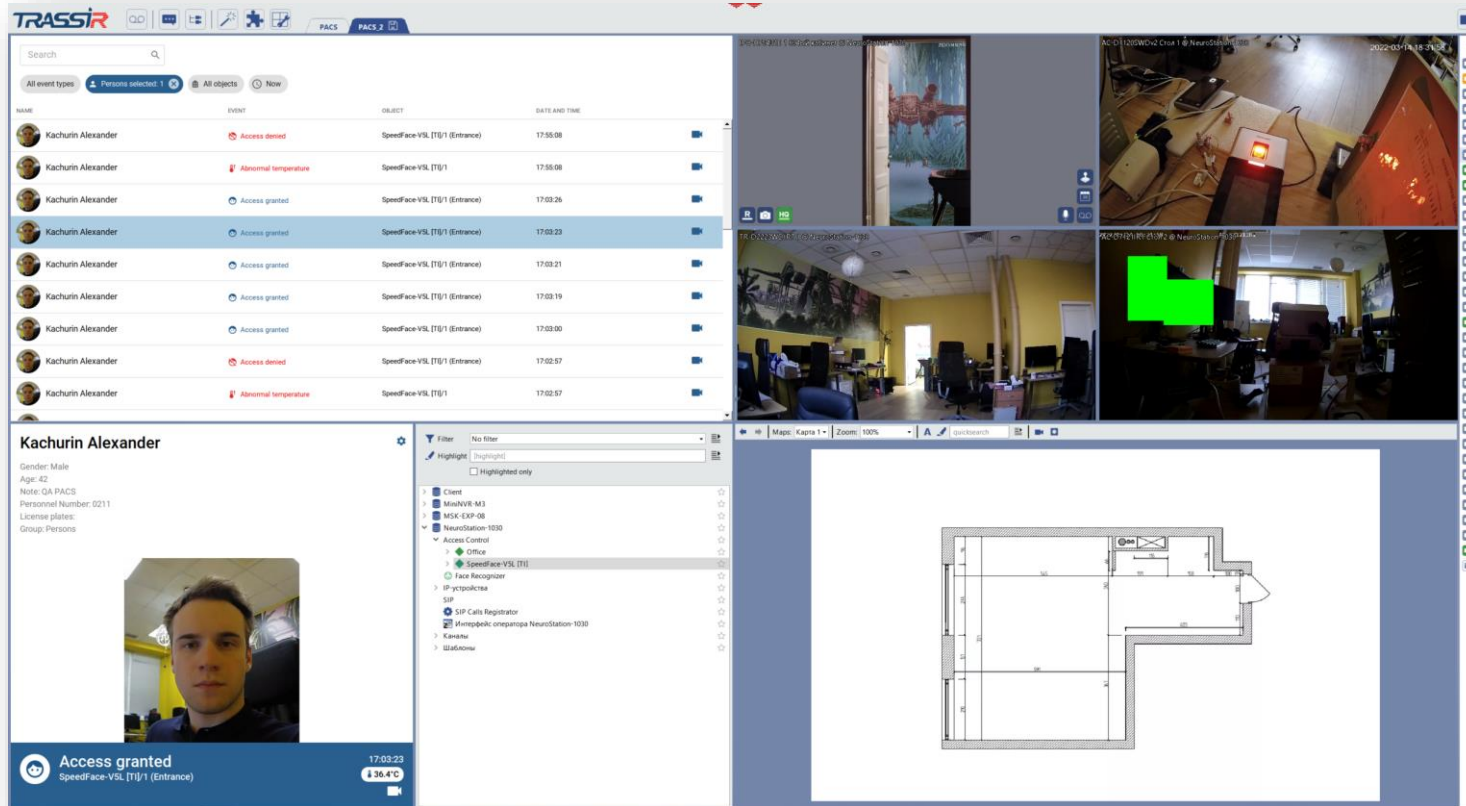
REALTIME CHECK OF ENTRANCE BY PHOTO



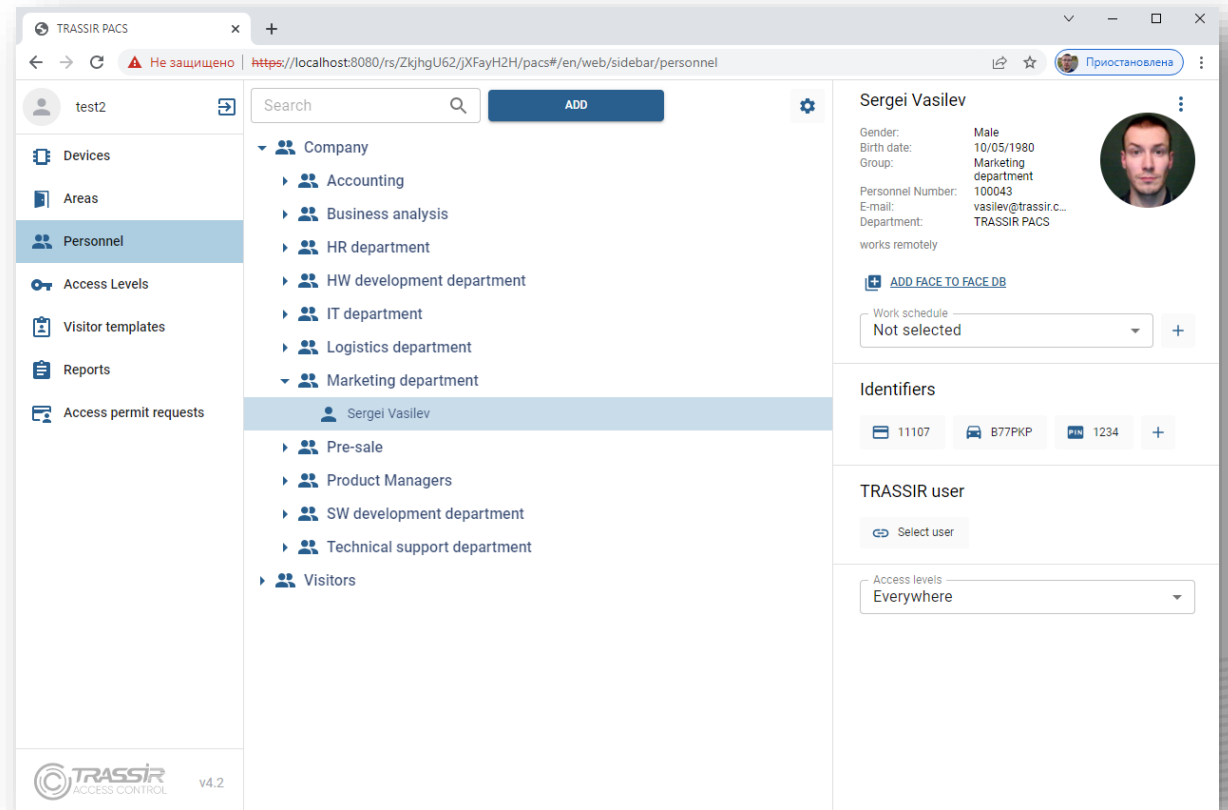
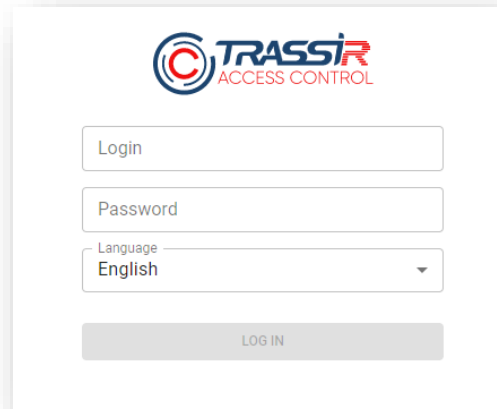
Why use a photo ID widget? One use is to put a monitor between turnstiles so that guards can see the data of card holders as well as photos for verification. The TRASSIR ACS Photo ID widget is flexible and customizable: it can hide or display name, gender, temperature, and other parameters. The widget can also be connected to the events log to show photos of persons who entered, where, and when.

OPERATOR INTERFACE

In TRASSIR and ACS in particular, any widget can be conveniently configured for the operator



ACCESS FROM WEB BROWSER

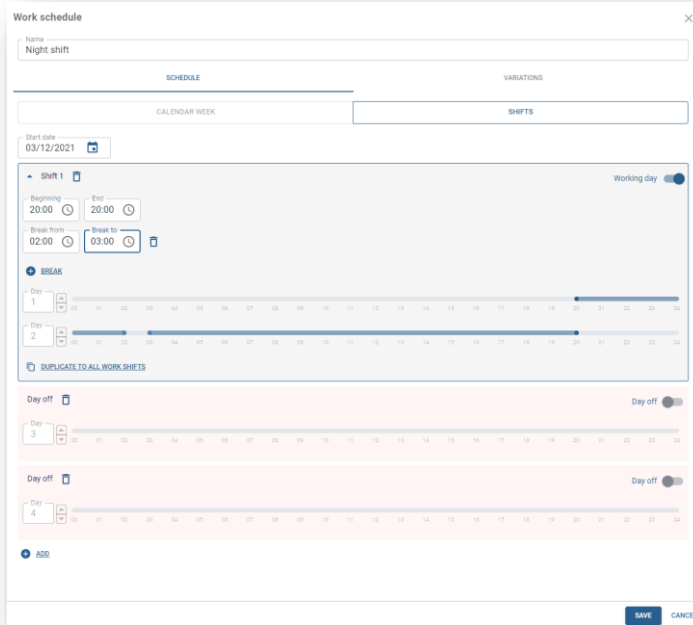


All the standard ACS functionality - adding devices, combining devices into zones, managing employees, assigning identifiers, access level schedules, working with guest passes, reporting, and much more - is available in the web browser.

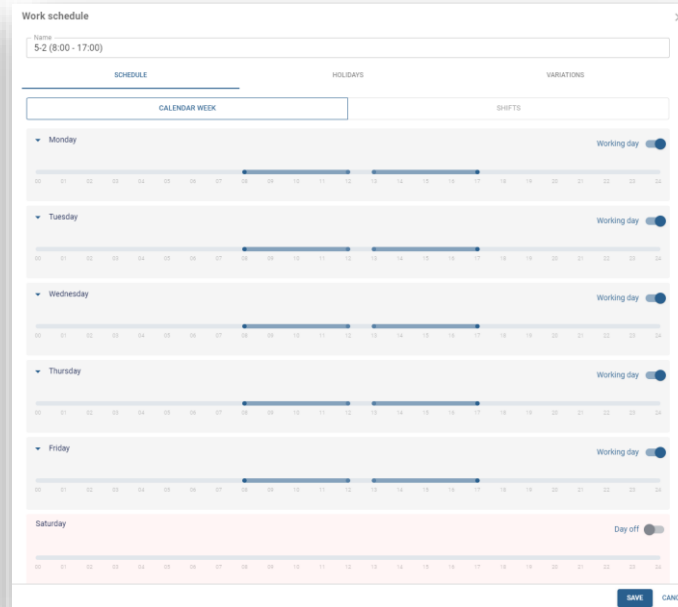
A man in a dark suit and tie is standing in profile, interacting with a self-service kiosk. The kiosk has a touchscreen display and a card reader. In the background, there are other kiosks and a large window with a grid pattern. The entire image is overlaid with a semi-transparent purple and blue gradient. The text "ACCOUNTING FOR WORKING PERIODS" is centered in white, bold, uppercase letters.

ACCOUNTING FOR WORKING PERIODS

WORK SCHEDULES



The screenshot shows the 'Work schedule' configuration window for a 'Night shift'. The window has a title bar with a close button. Below the title bar, there is a 'Name' field containing 'Night shift'. There are two tabs: 'SCHEDULE' (selected) and 'VARIATIONS'. Under the 'SCHEDULE' tab, there are two sub-tabs: 'CALENDAR WEEK' and 'SHIFTS'. The 'Start date' is set to '03/12/2021'. A section for 'SHIFT 1' is expanded, showing a 'Working day' toggle. It includes fields for 'Beginning' (20:00) and 'End' (20:00), and 'Break from' (02:00) and 'Break to' (03:00). Below this is a 'BREAK' section with two days (Day 1 and Day 2) and a 'DUPLICATE TO ALL WORK SHIFTS' button. There are also 'Day off' sections for Day 3 and Day 4, each with a 'Day off' toggle. At the bottom right, there are 'SAVE' and 'CANCEL' buttons.



The screenshot shows the 'Work schedule' configuration window for a '5-2 (8:00 - 17:00)' shift. The window has a title bar with a close button. Below the title bar, there is a 'Name' field containing '5-2 (8:00 - 17:00)'. There are two tabs: 'SCHEDULE' (selected) and 'VARIATIONS'. Under the 'SCHEDULE' tab, there are two sub-tabs: 'CALENDAR WEEK' and 'SHIFTS'. The window displays a weekly calendar view from Monday to Saturday. Each day has a 'Working day' toggle. Monday through Friday are marked as 'Working day' with blue bars indicating the shift hours (08:00 to 17:00). Saturday is marked as 'Day off' with a pink background and a 'Day off' toggle. At the bottom right, there are 'SAVE' and 'CANCEL' buttons.

TRASSIR ACS provides the ability to create flexible work schedules, including the transition of overnight shifts.



PERMISSIBLE DEVIATIONS

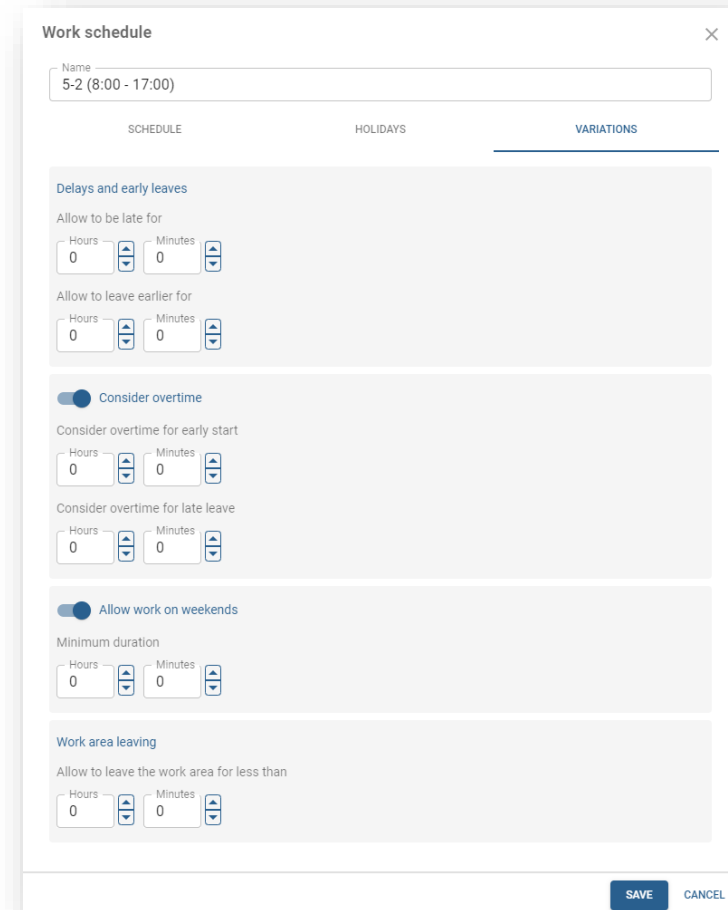
Late arrivals and early departures

Overtime

Weekend work

Leaving a work area

The deviation accounting system module allows you to set permissible parameters for tardiness, overtime, weekend work, and control over leaving the work area.

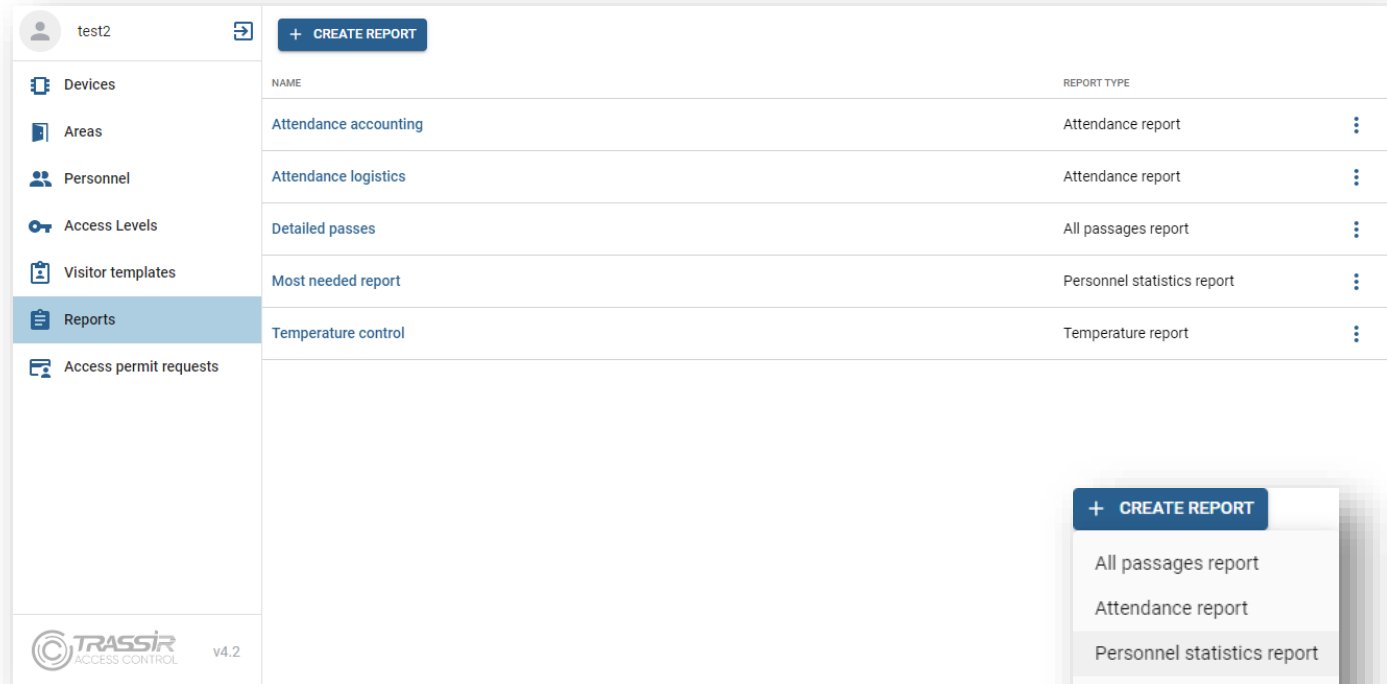


The screenshot shows a 'Work schedule' configuration window with a 'Name' field containing '5-2 (8:00 - 17:00)'. The 'VARIATIONS' tab is active, showing settings for 'Delays and early leaves', 'Consider overtime', 'Allow work on weekends', and 'Work area leaving'. Each section includes 'Hours' and 'Minutes' input fields with up/down arrows. The 'Consider overtime' and 'Allow work on weekends' sections also feature a toggle switch.

Section	Hours	Minutes	Toggle
Delays and early leaves	0	0	-
Allow to leave earlier for	0	0	-
Consider overtime	0	0	On
Consider overtime for early start	0	0	-
Consider overtime for late leave	0	0	-
Allow work on weekends	0	0	On
Minimum duration	0	0	-
Work area leaving	0	0	-

REPORT TEMPLATES

Report templates can be saved using preset settings (by group of employees, period, etc.). The report also stores data about which access points are responsible for calculating working time. This significantly increases the speed of generating necessary reports.



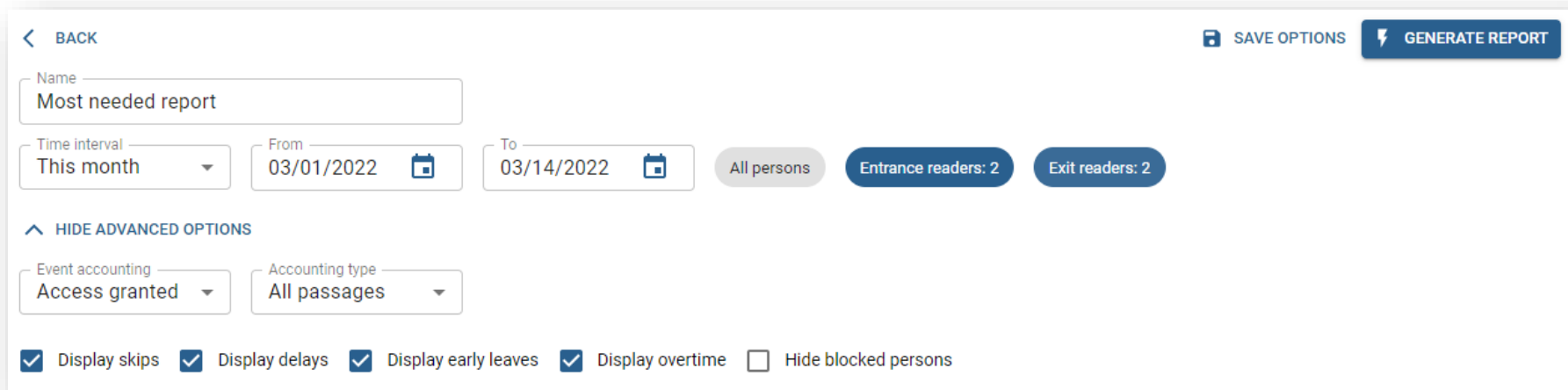
The screenshot shows the 'Reports' section of the TRASSIR Access Control system. On the left is a navigation menu with options: Devices, Areas, Personnel, Access Levels, Visitor templates, Reports (highlighted), and Access permit requests. The main area features a '+ CREATE REPORT' button and a table of report templates. The table has columns for 'NAME' and 'REPORT TYPE'. Below the table, a dropdown menu is open, showing a list of report types: All passages report, Attendance report, Personnel statistics report, Report of being late, Temperature report, and Who where. The TRASSIR logo and version 'v4.2' are visible in the bottom left corner of the interface.

NAME	REPORT TYPE
Attendance accounting	Attendance report
Attendance logistics	Attendance report
Detailed passes	All passages report
Most needed report	Personnel statistics report
Temperature control	Temperature report

- + CREATE REPORT
- All passages report
- Attendance report
- Personnel statistics report
- Report of being late
- Temperature report
- Who where

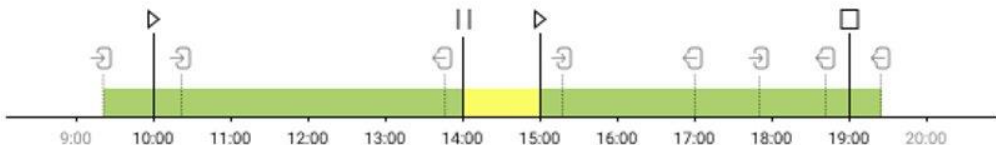
DIFFERENT WAYS OF WORKTIME ACCOUNTING

TRASSIR ACS allows for selection of event type according to which working time should be calculated, such as when an employee touched their card to the reader or when a door was opened. Another available option is strict time accounting, which counts all of employees entrances so that only the time spent inside the work area is counted.



The screenshot shows the configuration interface for a report. At the top left is a 'BACK' button. At the top right are 'SAVE OPTIONS' and 'GENERATE REPORT' buttons. Below these are input fields for 'Name' (containing 'Most needed report'), 'Time interval' (set to 'This month'), 'From' (03/01/2022), and 'To' (03/14/2022). There are three filter buttons: 'All persons', 'Entrance readers: 2', and 'Exit readers: 2'. A section titled 'HIDE ADVANCED OPTIONS' contains two dropdown menus: 'Event accounting' (set to 'Access granted') and 'Accounting type' (set to 'All passages'). At the bottom, there are checkboxes for 'Display skips', 'Display delays', 'Display early leaves', 'Display overtime' (all checked), and 'Hide blocked persons' (unchecked).

First and last entrance



All entrances



WORKTIME CALCULATION BY DAYS

Attendance report

Time interval: Last month | From: 02/01/2022 | To: 02/28/2022 | Persons selected: 1 | All readers

ADVANCED OPTIONS

Attendance report (02/01/2022 – 02/28/2022)

Name	Personnel number	Group	Schedule name	Visits info									
				Nº	Date	Arrival	Departure	Actual hours	Plan hours	Being late	Early leaving	Overtime	
Kachurin Alexander	0211		5-2	1	01.02.2022	11:06	19:54	08:48	09:00	02:06			
				2	02.02.2022	10:53	19:58	09:05	09:00	01:53			00:05
				3	03.02.2022	10:57	20:00	09:03	09:00	01:57			00:03
				4	04.02.2022	10:57	19:51	08:54	09:00	01:57			
				-	05.02.2022			00:00	00:00				
				-	06.02.2022			00:00	00:00				
				5	07.02.2022	10:54	20:15	09:21	09:00	01:54			00:21
				6	08.02.2022	11:11	20:15	09:04	09:00	02:11			00:04
				7	09.02.2022	11:18	20:06	08:48	09:00	02:18			
				8	10.02.2022	10:46	20:11	09:25	09:00	01:46			00:25
				9	11.02.2022	11:05	20:10	09:05	09:00	02:05			00:05
				-	12.02.2022			00:00	00:00				
				-	13.02.2022			00:00	00:00				
				10	14.02.2022	11:03	20:07	09:04	09:00	02:03			00:04
				11	15.02.2022	11:08	20:20	09:12	09:00	02:08			00:12
				12	16.02.2022	11:00	20:13	09:13	09:00	02:00			00:13
				13	17.02.2022	11:17	19:49	08:32	09:00	02:17			
				14	18.02.2022	10:49	20:06	09:17	09:00	01:49			00:17
				-	19.02.2022			00:00	00:00				
				-	20.02.2022			00:00	00:00				
				15	21.02.2022	11:13	19:55	08:42	09:00	02:13			
				16	22.02.2022	11:00	20:14	09:14	09:00	02:00			00:14
				17	23.02.2022	11:08	19:43	08:35	09:00	02:08			
				18	24.02.2022	10:52	20:07	09:15	09:00	01:52			00:15
				19	25.02.2022	10:41	20:06	09:25	09:00	01:41			00:25
				-	26.02.2022			00:00	00:00				
				-	27.02.2022			00:00	00:00				
				20	28.02.2022			00:00	09:00				

DOWNLOAD XLSX

The system has reports that record working time by day. Choose a date and employee to display the time worked, tardiness, etc. for a given working day. These reports can also be downloaded in XLSX format.

WORKTIME CALCULATION WITHOUT WORK SCHEDULES

TRASSIR ACS also has a generalized report that summarizes the time worked over a certain period. Not by days, but by period of time. This option is useful when employees cannot be connected with a work schedule.

< BACK
SAVE OPTIONS GENERATE REPORT

Name: Attendance report (without work schedule)

Work interval: Beginning: 02/01/2022 11:00 - End: 02/01/2022 20:00

Tolerance interval for events search: 01:00

Minimum hours worked: 01:00

All persons All readers

ADVANCED OPTIONS

DOWNLOAD XLSX

Attendance report (without work schedule)

Attendance report (without work schedule) (02/01/2022 11:00 – 02/01/2022 20:00)

№	Name	Personnel number	Group	Visits info						
				Date	Arrival	Departure	Actual hours	Plan hours	Being late	Early leaving
1	Kachurin Alexander	0211		01.02.2022	11:06	19:54	08:48	09:00	00:06	00:06
2	Артамонов Роман		Тестировщики	01.02.2022	11:08	20:14	09:06	09:00	00:08	
3	Борисов Виталий		M1	01.02.2022	11:10	20:07	08:57	09:00	00:10	
4	Васильков Илья		OEM-2	01.02.2022	10:57	19:55	08:58	09:00		00:05
5	Зигерт Дмитрий		Тестировщики	01.02.2022	11:00	19:50	08:50	09:00		00:10
6	Ивченко Александр		OEM-1	01.02.2022	10:55	20:15	09:20	09:00		
7	Карлов Юрий		Админы	01.02.2022	10:42	19:44	09:02	09:00		00:16
8	Курдюмов Руслан		Тестировщики	01.02.2022	10:55	20:01	09:06	09:00		
9	Макаров Павел		Visitors	01.02.2022	10:55	19:46	08:51	09:00		00:14
10	Процалыгин Александр		Техническая поддержка	01.02.2022	10:56	20:01	09:05	09:00		
11	Савин Сергей Александрович		Продакт-менеджеры	01.02.2022	11:03	20:06	09:03	09:00	00:03	
12	Скороход Александр		M1	01.02.2022	11:03	20:17	09:14	09:00	00:03	

PERSONNEL STATISTICS

Statistics for each employee can be displayed, such as: number of days employee was at work, number of days required, amount actually worked, and number of late arrivals. This report can be downloaded in Excel format.

< BACK
SAVE OPTIONS
GENERATE REPORT

Name: Personnel statistics report

Time interval: Last month | From: 02/01/2022 | To: 02/28/2022 | Persons selected: 2 | All readers

^ HIDE ADVANCED OPTIONS

Event accounting: Pass | Accounting type: First and last p...

Display skips
 Display delays
 Display early leaves
 Display overtime
 Hide blocked persons

DOWNLOAD XLSX

Personnel statistics report

Personnel statistics report (02/01/2022 – 02/28/2022)

Name	Personnel number	Group	Schedule name	Plan hours			Actual hours			Absenteeism	Being late			Early leave			Overtime		
				Days	Shifts	Hours	Days	Shifts	Hours		Quantity	Hours	Avg	Quantity	Hours	Avg	Quantity	Hours	Avg
Kachurin Alexander	0211		5-2	20		180:00	19		172:02	1	19	38:18	02:00				13	02:43	00:12
Nikolai Utkin		M1	Not specified			00:00	19		170:22										
Total				20	0	180:00	38	0	342:24	1	19	38:18	02:00	0	00:00	00:00	13	02:43	00:12

REPORT OF LATE ARRIVALS

A separate report on employee tardiness can be generated.

< BACK
SAVE OPTIONS GENERATE REPORT

Name
Report of being late

Time interval: Last month | From: 02/01/2022 | To: 02/28/2022 | All persons | All readers

^ HIDE ADVANCED OPTIONS

Event accounting: Pass | Accounting type: First and last p... | Hide blocked persons

DOWNLOAD XLSX

Report of being late

Report of being late (02/01/2022 – 02/28/2022)

Report was generated at 14.03.2022 18:54

Name	Personnel number	Group	Date	Arrival - Plan	Arrival - Fact	Being late
Kachurin Alexander	0211		01.02.2022	09:00	11:06	02:06
			02.02.2022	09:00	10:53	01:53
			03.02.2022	09:00	10:57	01:57
			04.02.2022	09:00	10:57	01:57
			07.02.2022	09:00	10:54	01:54
			08.02.2022	09:00	11:11	02:11
			09.02.2022	09:00	11:18	02:18
			10.02.2022	09:00	10:46	01:46
			11.02.2022	09:00	11:05	02:05
			14.02.2022	09:00	11:03	02:03
			15.02.2022	09:00	11:08	02:08
			16.02.2022	09:00	11:00	02:00
			17.02.2022	09:00	11:17	02:17
			18.02.2022	09:00	10:49	01:49
			21.02.2022	09:00	11:13	02:13
			22.02.2022	09:00	11:00	02:00
			23.02.2022	09:00	11:08	02:08
			24.02.2022	09:00	10:52	01:52
			25.02.2022	09:00	10:41	01:41
						28.02.2022

ALL STAFF MOVEMENTS

[BACK](#)

[SAVE OPTIONS](#)
[GENERATE REPORT](#)

Name:

Time interval: Custom interval From: To:
All persons
All access points

^ HIDE ADVANCED OPTIONS

Event accounting: Pass Hide blocked persons

[DOWNLOAD XLSX](#)

All passages report

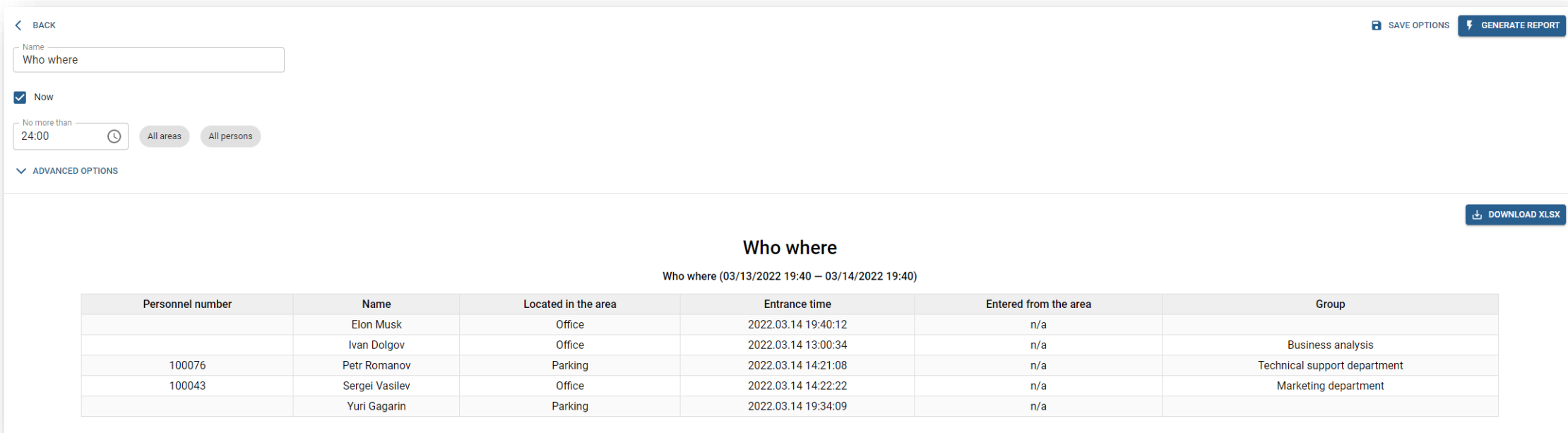
All passages report (02/01/2022 – 02/01/2022)

Name	Personnel number	Group	Date	Time	Access point	Direction				
Kachurin Alexander	0211		2022.02.01	11:06:00	SpeedFace-VSL [T]/1	Entrance				
				12:37:00	SpeedFace-VSL [T]/1	Exit				
				12:53:00	SpeedFace-VSL [T]/1	Entrance				
				16:05:00	SpeedFace-VSL [T]/1	Exit				
				16:24:00	SpeedFace-VSL [T]/1	Entrance				
				17:21:00	SpeedFace-VSL [T]/1	Exit				
				17:33:00	SpeedFace-VSL [T]/1	Entrance				
				19:54:00	SpeedFace-VSL [T]/1	Exit				
				Артамонов Роман		Тестировщики	2022.02.01	11:08:00	SpeedFace-VSL [T]/1	Entrance
								12:29:00	SpeedFace-VSL [T]/1	Exit
12:42:00	SpeedFace-VSL [T]/1	Entrance								
15:30:00	SpeedFace-VSL [T]/1	Exit								
15:50:00	SpeedFace-VSL [T]/1	Entrance								
17:47:00	SpeedFace-VSL [T]/1	Exit								
18:02:00	SpeedFace-VSL [T]/1	Entrance								
20:14:00	SpeedFace-VSL [T]/1	Exit								
Борисов Виталий		M1	2022.02.01					11:10:00	SpeedFace-VSL [T]/1	Entrance
								12:49:00	SpeedFace-VSL [T]/1	Exit
				13:09:00	SpeedFace-VSL [T]/1	Entrance				
				15:33:00	SpeedFace-VSL [T]/1	Exit				
				15:52:00	SpeedFace-VSL [T]/1	Entrance				
				17:48:00	SpeedFace-VSL [T]/1	Exit				
				18:07:00	SpeedFace-VSL [T]/1	Entrance				
				20:07:00	SpeedFace-VSL [T]/1	Exit				

All movements through access points can be both viewed in the event widget as well as generated into a report. It can be conveniently downloaded in XSLX format for delivery to HR, accounting, and other departments.

REPORT ON EMPLOYEE PRESENCE IN SPECIFIC ZONES

TRASSIR ACS lets you select a person or zone and see whether the employee was present during working hours.



The screenshot shows the TRASSIR ACS report interface. At the top left, there is a 'BACK' button. Below it is a search field for 'Name' with the value 'Who where'. To the right of the search field are 'SAVE OPTIONS' and 'GENERATE REPORT' buttons. Below the search field, there is a 'Now' checkbox which is checked. Below that is a time filter 'No more than 24:00' with a clock icon. There are two buttons: 'All areas' and 'All persons'. Below these is an 'ADVANCED OPTIONS' dropdown. On the right side of the interface, there is a 'DOWNLOAD XLSX' button. The main content area is titled 'Who where' and has a subtitle 'Who where (03/13/2022 19:40 – 03/14/2022 19:40)'. Below the subtitle is a table with the following data:

Personnel number	Name	Located in the area	Entrance time	Entered from the area	Group
	Elon Musk	Office	2022.03.14 19:40:12	n/a	
	Ivan Dolgov	Office	2022.03.14 13:00:34	n/a	Business analysis
100076	Petr Romanov	Parking	2022.03.14 14:21:08	n/a	Technical support department
100043	Sergei Vasilev	Office	2022.03.14 14:22:22	n/a	Marketing department
	Yuri Gagarin	Parking	2022.03.14 19:34:09	n/a	

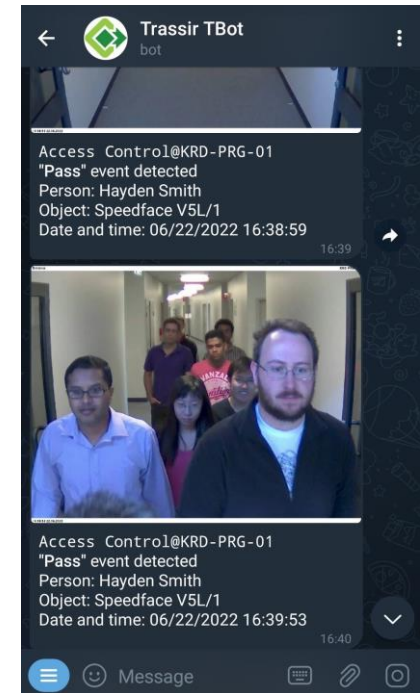
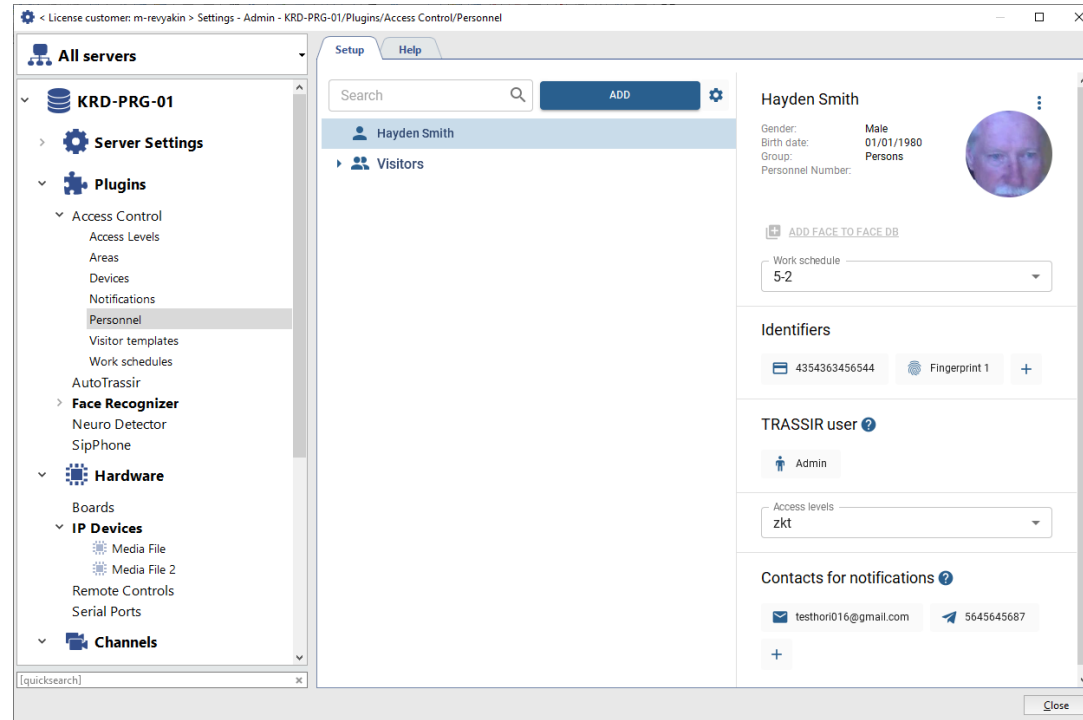


NOTIFICATIONS

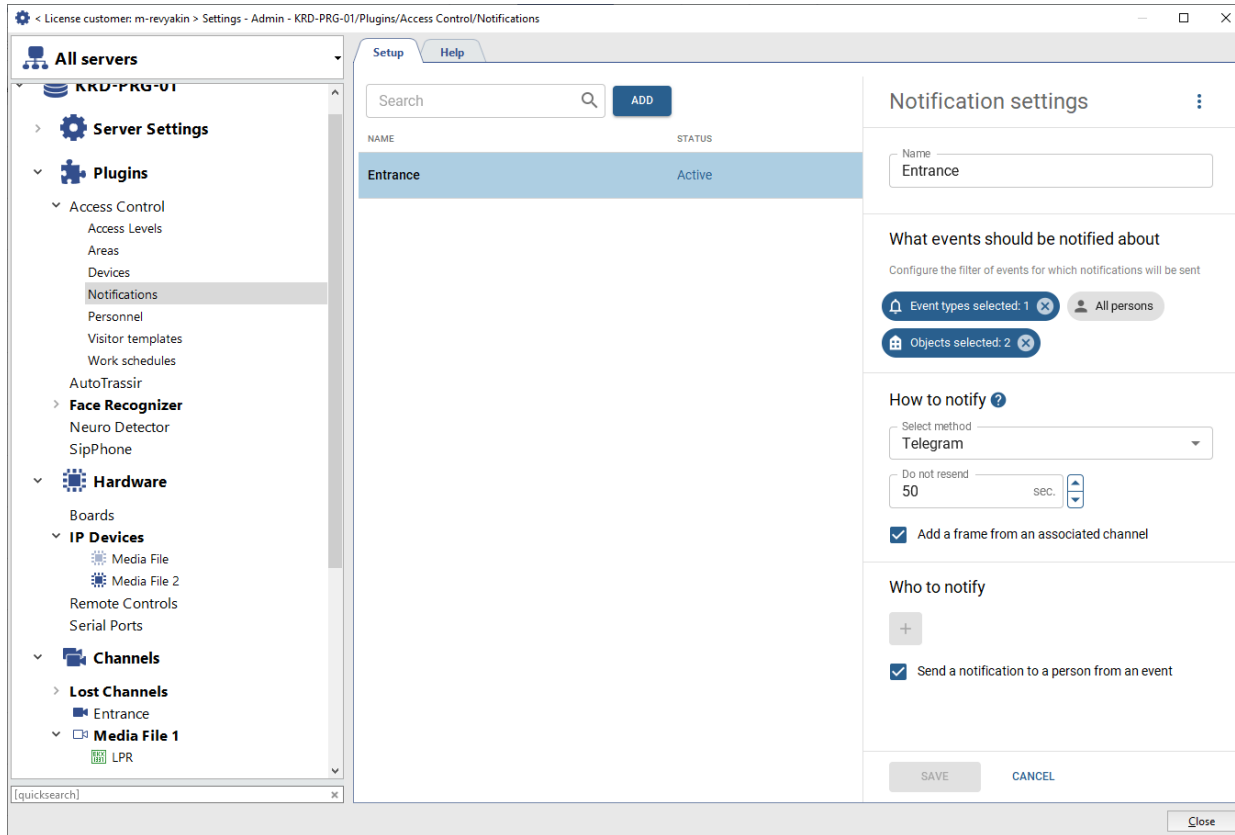
NOTIFICATIONS

For operational access control you can set up notifications about any events.

Sending these notifications can be configured both to e-mail and Telegram bot.



NOTIFICATIONS

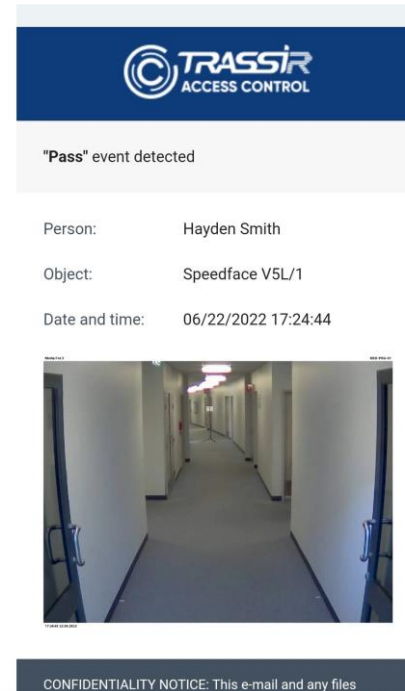
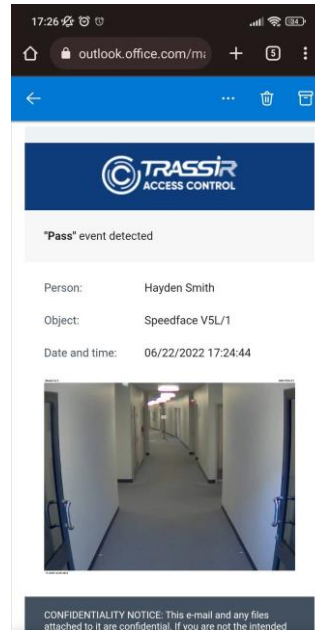
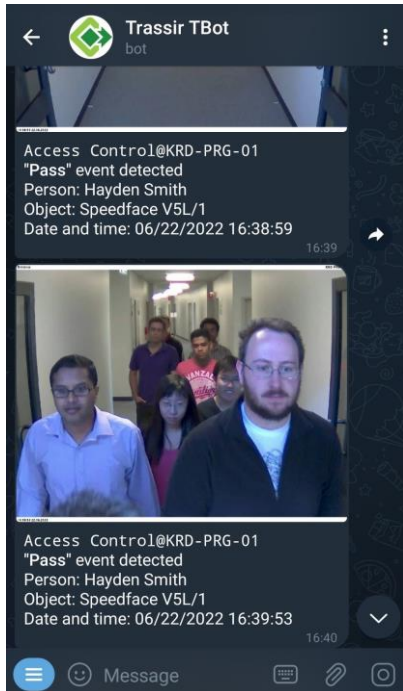


Notifications can be sent to any events that occur in the access control system: a person passes, holding the door open and many others.

You can also configure to whom and what specific events should be sent, as well as use the automatic sending function for a person who appeared in any events, for example, sending events to parents about arrivals and departure of their child from school.

NOTIFICATIONS

TRASSIR ACS can attach a frame to the notification associated with the event, which helps to further inform operators, administrators and other stakeholders about what happened at the facility, where and when

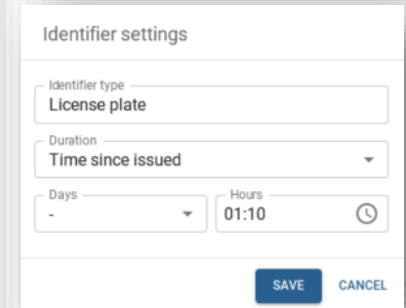
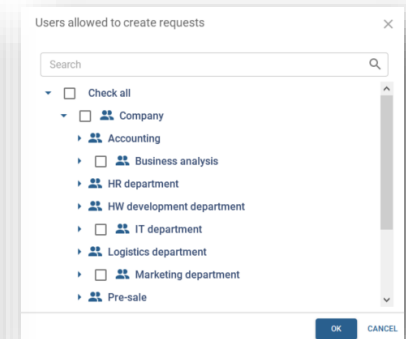
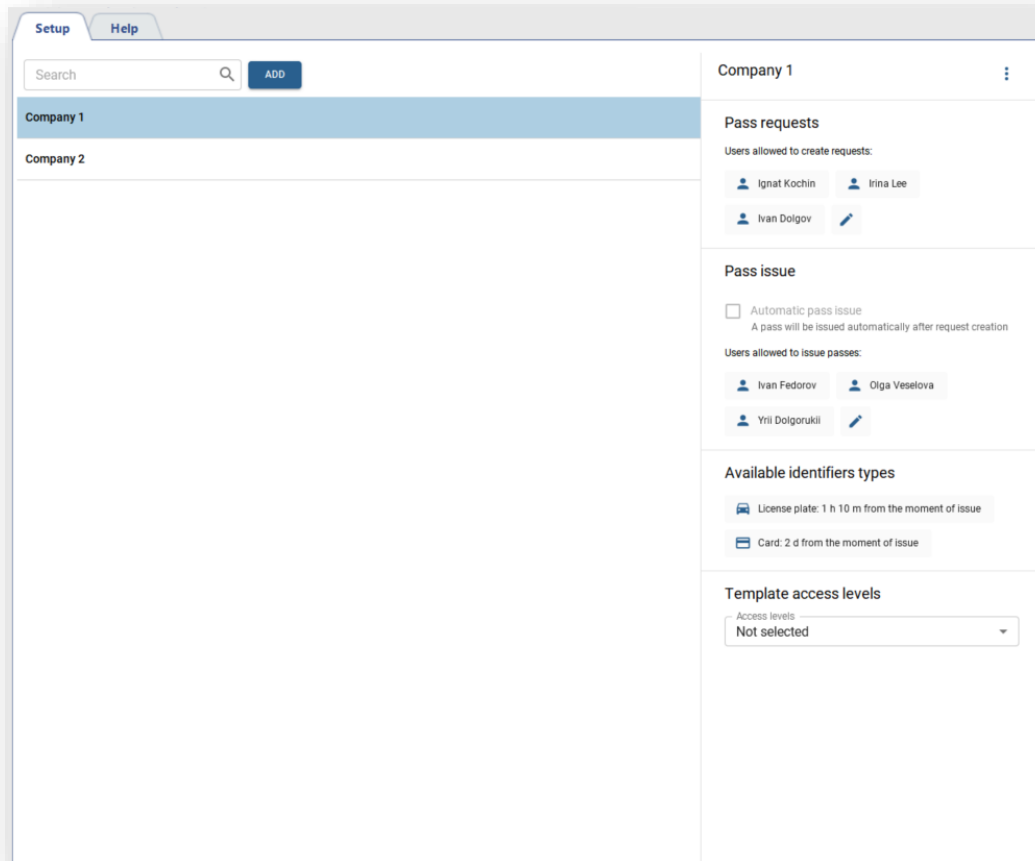


A man in a dark suit and tie is standing in profile, interacting with a self-service kiosk. The kiosk has a touchscreen display and a card reader. In the background, there are other kiosk units and a large window with a view of a city. The entire image is overlaid with a semi-transparent purple and blue gradient. The text "EQUIPMENT SETUP AND MANAGEMENT" is centered in white, bold, uppercase letters.

EQUIPMENT SETUP AND MANAGEMENT

GUEST CREDENTIAL TEMPLATE SETTING

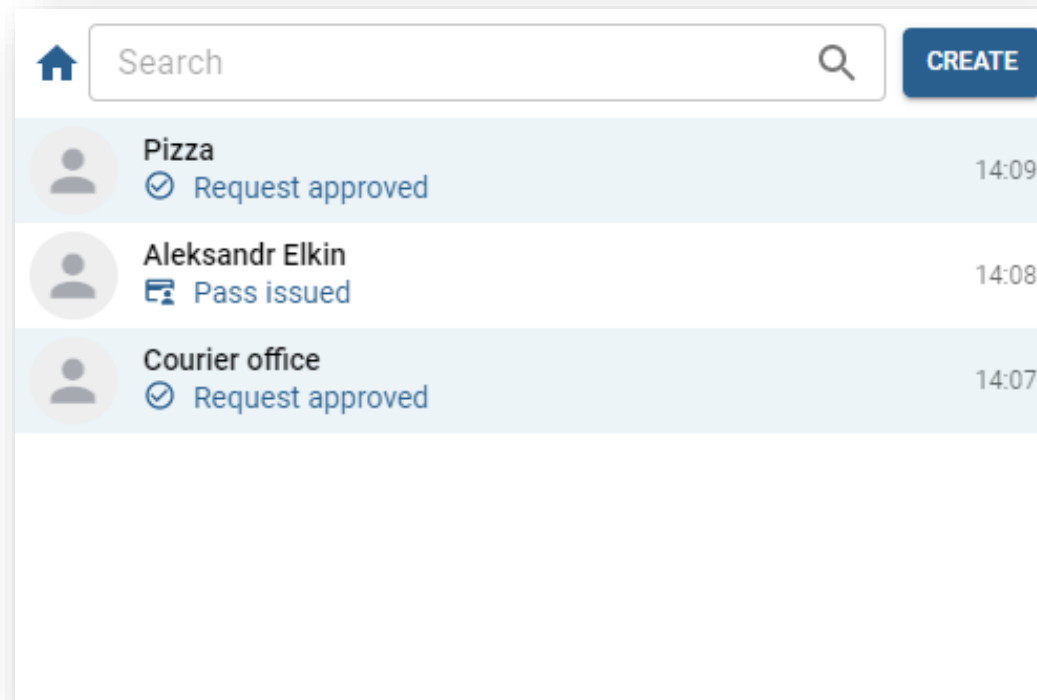
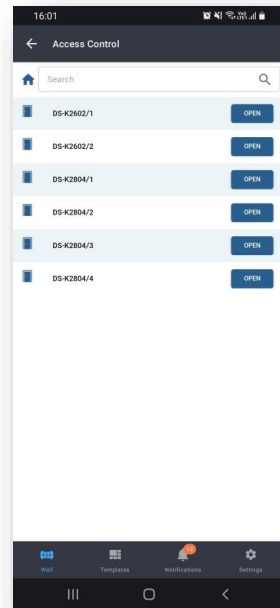
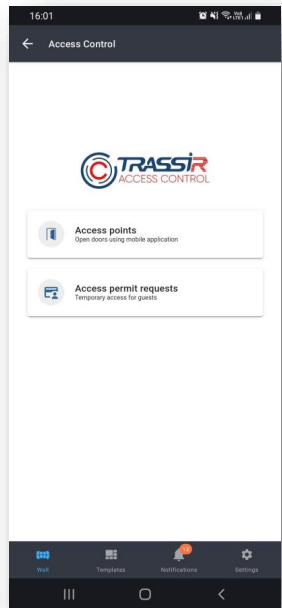
If separate rights and access levels need to be created for each individual tenant, you can specify who has the ability to create requests or issue passes, and which types of identifier are available. You can set up auto-issue* - order a pass, enter a number, and the access point (barrier) opens immediately. Pass validity may also be limited.



* currently available for license plates only

GUEST PASS ORDERING

Order credentials while using TRASSIR ACS from the mobile app by entering the guest's name, selecting an available group of people, and specifying a note.



VIEW ALL APPLICATIONS AND PASSES ISSUED



The screenshot displays the TRASSIR ACS interface. On the left is a navigation menu with options: Devices, Areas, Personnel, Access Levels, Visitor templates, Reports, and Access permit requests (highlighted). The main area features a search bar and a table of access permit requests. The table has columns for NAME, LICENSE PLATE, STATUS, CREATED AT, and CREATED BY. Three requests are listed, all with a status of 'Approved' and created by 'Sergei Vasilev'. The first request is for Aleksandr Elkin with license plate B32GJK. Below the table, the 'Access permit request' details are shown, including status (Approved), template (Company 1), and creator (Sergei Vasilev). Visitor information for Aleksandr Elkin is also displayed, along with an identifier for license plate B32GJK with a duration of 1 h 10 m. An 'ISSUE A PASS' button is located at the bottom right.

NAME	LICENSE PLATE	STATUS	CREATED AT	CREATED BY
Aleksandr Elkin	B32GJK	Approved	14:08	Sergei Vasilev
Pizza		Approved	14:09	Sergei Vasilev
Courier office		Approved	14:07	Sergei Vasilev

Access permit request

Status: Approved
Template: Company 1
Created by: Sergei Vasilev
Created at: 14:08

Visitor information

Aleksandr Elkin

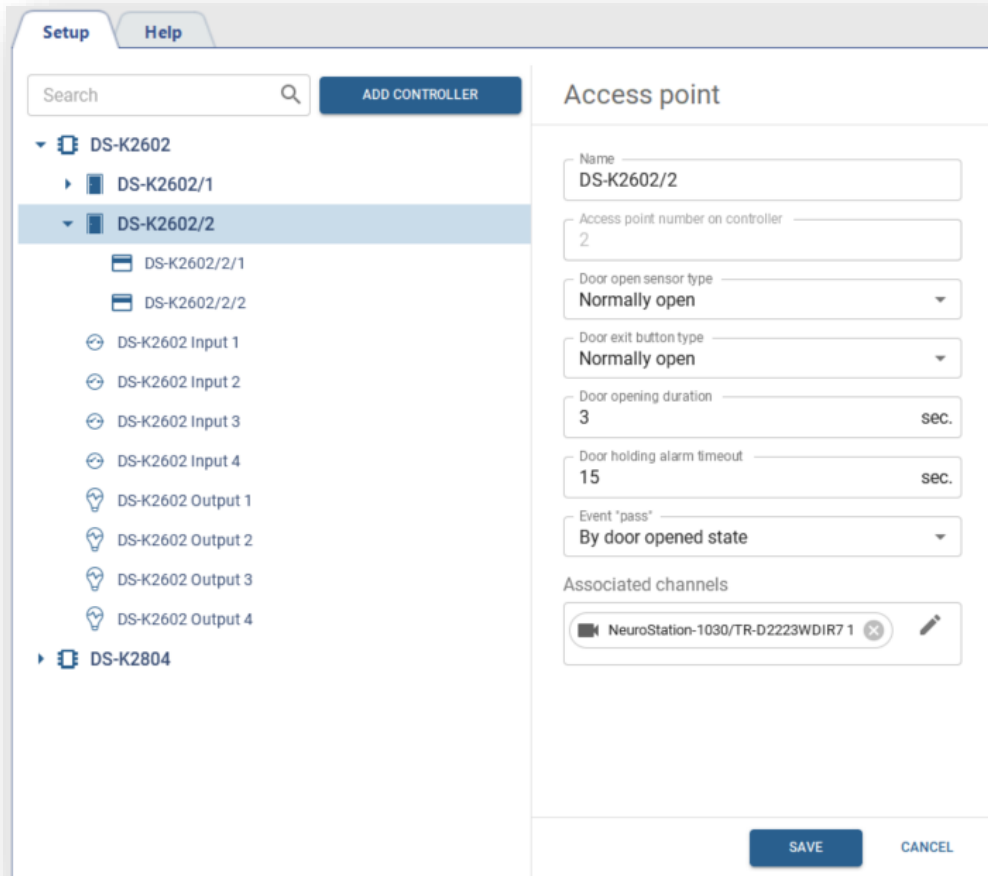
Identifiers

B32GJK: 1 h 10 m from the moment of issue +

ISSUE A PASS

TRASSIR ACS currently contains two roles - one for ordering passes, and another for issuing them.

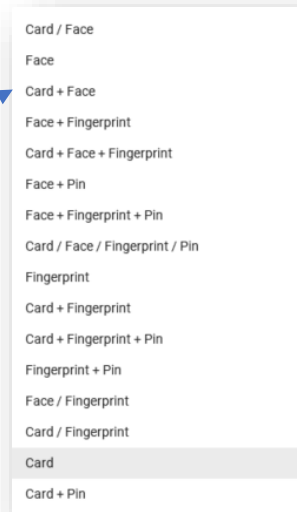
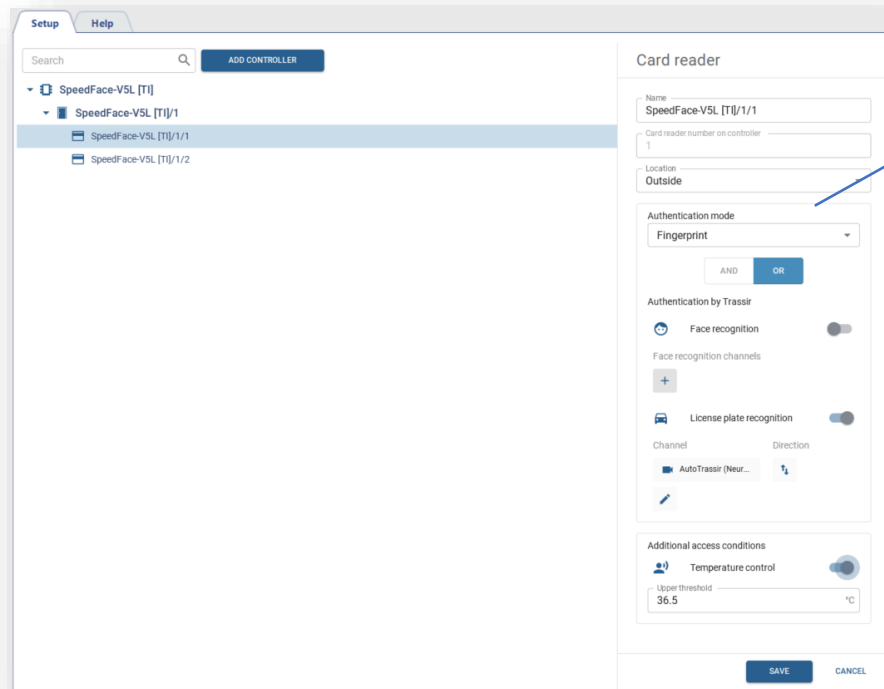
EQUIPMENT SETUP AND MANAGEMENT



You can configure equipment using basic parameters. Some examples are: which types of contact connect buttons, assigning times to open or hold doors, the ability to associate a specific access point with a video camera for subsequent viewing of footage from events.



EQUIPMENT SETUP AND MANAGEMENT

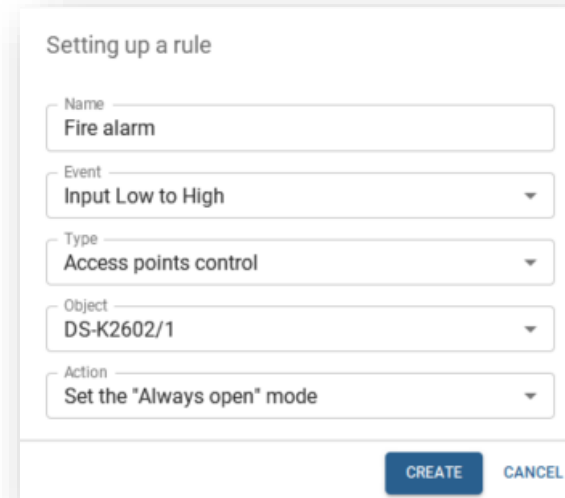
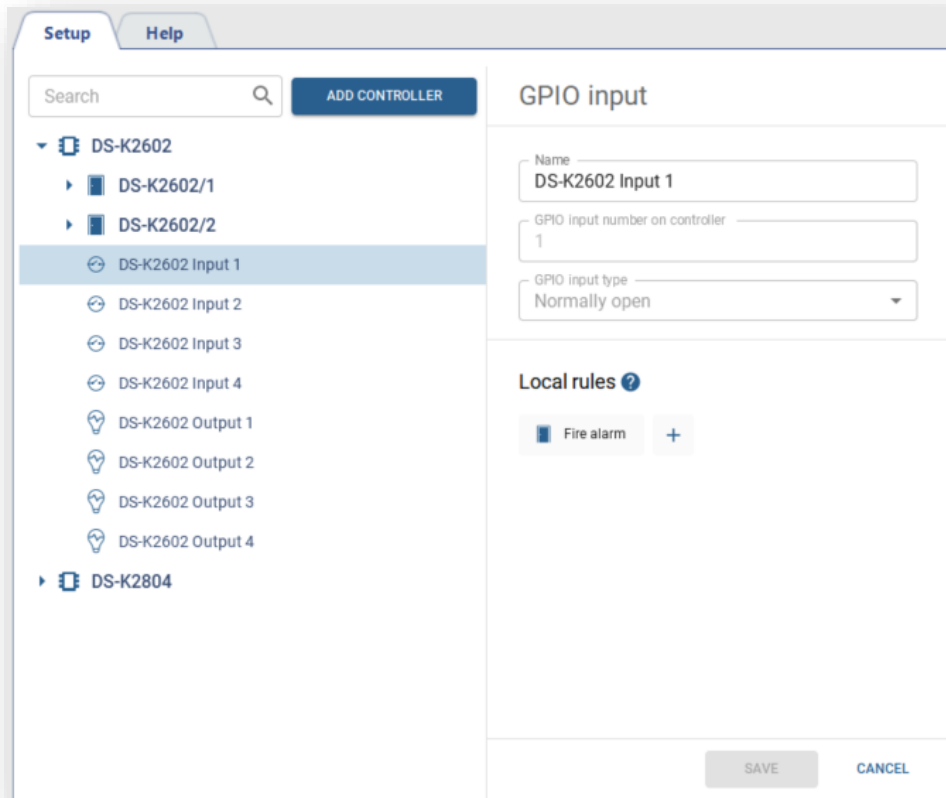


TRASSIR functions make it possible to set up a reader or include additional identification such as license plates or facial recognition.



EQUIPMENT SETUP AND MANAGEMENT (GPIO)

The operation of TRASSIR ACS can also be configured for specific responses to signals from other systems, such as fire alarms.

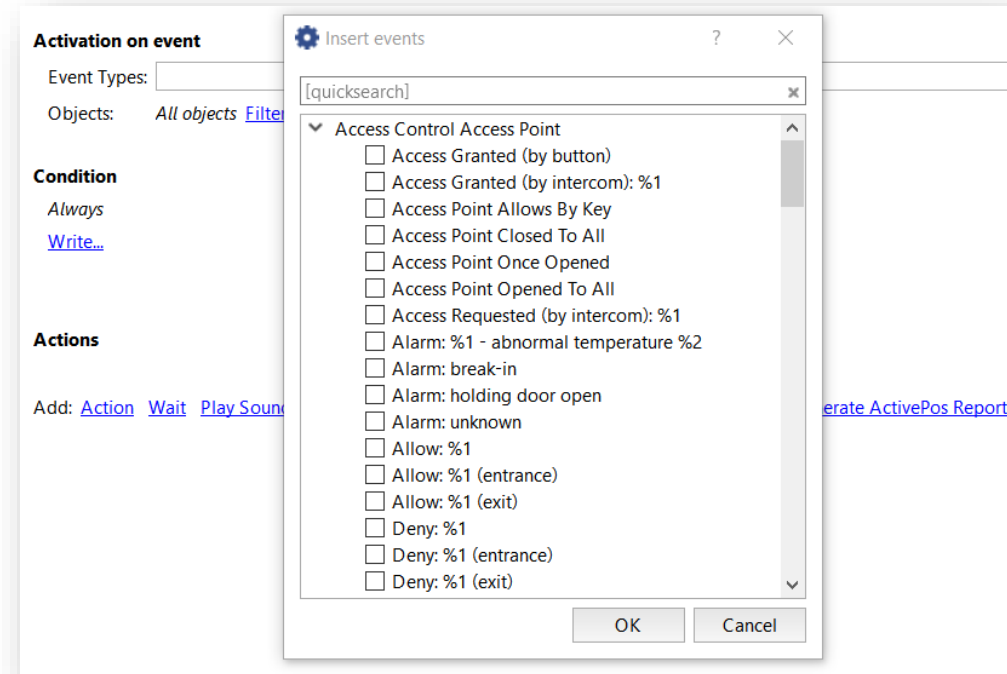




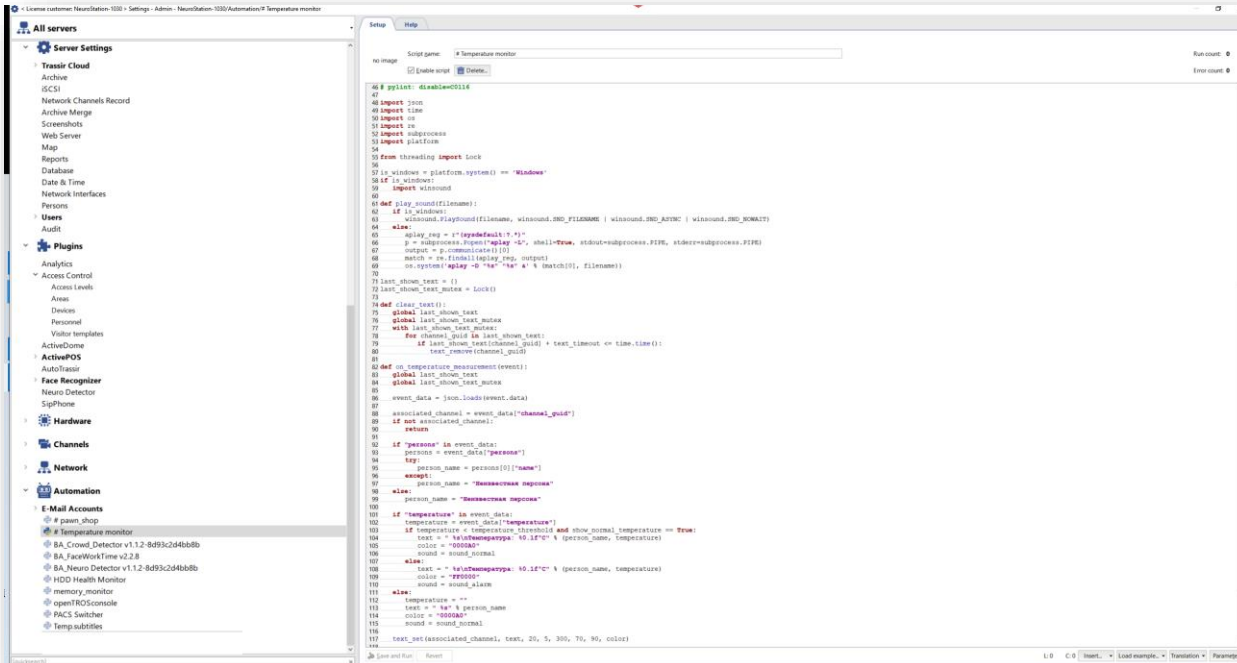
INTEGRATION FEATURES

SETTING UP RULES, FLEXIBLE REACTIONS TO EVENTS

A variety of rules can be created in the system for how it reacts to certain events. This can be done by selecting the desired action from a list of events and reactions (e.g., sending an email, playing a sound when a device fails, etc.)



EMBEDDED PROGRAMMING LANGUAGE



```
Script name: Temperature monitor
Script type: Python
Script content:
40 # print: disable console
41
42 import sys
43 import time
44 import os
45 import subprocess
46 import platform
47
48 from threading import Lock
49
50 is_windows = platform.system() == "Windows"
51 if is_windows:
52     import win32com.client
53
54 def play_sound(filename):
55     if is_windows:
56         win32com.client.Dispatch(filename, win32com.client.DispatchConstants.SND_FILENAME | win32com.client.DispatchConstants.SND_ASYNC | win32com.client.DispatchConstants.SND_DEFAULT | 1)
57     else:
58         p = subprocess.Popen("play -S", shell=True, stdout=subprocess.PIPE, stderr=subprocess.PIPE)
59         output = p.communicate()[0]
60         match = re.findall("play -S %s" % filename, output)
61         os.system("play -S %s" % match[0][0])
62
63 last_show_text = {}
64 last_show_text_mutex = Lock()
65
66 def clear_text():
67     global last_show_text
68     last_show_text_mutex.acquire()
69     last_show_text = {}
70     last_show_text_mutex.release()
71
72 def on_temperature_measurement(event):
73     global last_show_text
74     global last_show_text_mutex
75     last_show_text_mutex.acquire()
76     if last_show_text.get(event["channel_guid"]) is None:
77         last_show_text[event["channel_guid"]] = {}
78     last_show_text_mutex.release()
79
80     event_data = json.loads(event_data)
81     associated_channel = event_data["channel_guid"]
82     if not associated_channel:
83         return
84
85     if "person" in event_data:
86         person = event_data["person"]
87         name = person["name"]
88         name = name.replace(" ", "")
89         name = name.lower()
90         person_name = "Temperature monitor"
91         person_name = "Temperature monitor"
92
93     if "temperature" in event_data:
94         temperature = event_data["temperature"]
95         if temperature > temperature_threshold and show_normal_temperature == True:
96             text = "%sTemperature: %s. If C" % (person_name, temperature)
97             sound = sound_normal
98         else:
99             text = "%sTemperature: %s. If C" % (person_name, temperature)
100             sound = sound_alarm
101
102     temperature = ""
103     text = "%s" % person_name
104     color = "000000"
105     sound = sound_normal
106
107     text = "%s" % person_name
108     color = "000000"
109     sound = sound_alarm
110
111     temperature = ""
112     text = "%s" % person_name
113     color = "000000"
114     sound = sound_normal
115
116     text_get_associated_channel, text, 20, 5, 300, 70, 90, color)
117
118
```

In the case that your requirements are absent from the list of available rules, you can use Python to create more complex scripts for TRASSIR ACS behaviors.

OPEN API

TRASSIR ACS has complete documentation with corresponding examples. It can be integrated with any information system you need. All of the TRASSIR system interface's functions can also be accessed through the open API.

```
Request
{
  "info": {
    "family": "emulator",
    "ip_address": "192.168.1.201",
    "login": "admin",
    "name": "New device",
    "password": "12345",
    "port": 8000
  },
  "language": "en"
}

Response
{
  "info": {
    "errors": [],
    "family": "emulator",
    "id": 9,
    "ip_address": "192.168.1.201",
    "licensed": true,
    "login": "admin",
    "name": "New device",
    "parent_device_id": 0,
    "password": "",
    "port": 8000,
    "status": "CONNECTING"
  }
}
```



TRASSIR®



trassir.com



welcome@trassir.com

