



Access Control System



# What is it?



A new module in the TRASSIR platform, which will significantly increase the functionality and usability feature of the security system, will reduce infrastructure costs and simplify the platform mounting and installation



It will prevent unauthorized access to the closed territory of offices, business centers, gardeners' non-commercial partnerships, housing cooperatives and cottage settlements, industrial enterprises and socio-cultural institutions



A tool for security departments, security personnel, accounting, HR departments and offices receptions, housing and utility providers



It will allow you to manage access points to the territory, provide access to cars and visitors using various identifiers, including by face, biometric data through your mobile phone



It will help you easily configure access scenarios and response to the access regime violation, keep records of working hours, work with temporary IDs



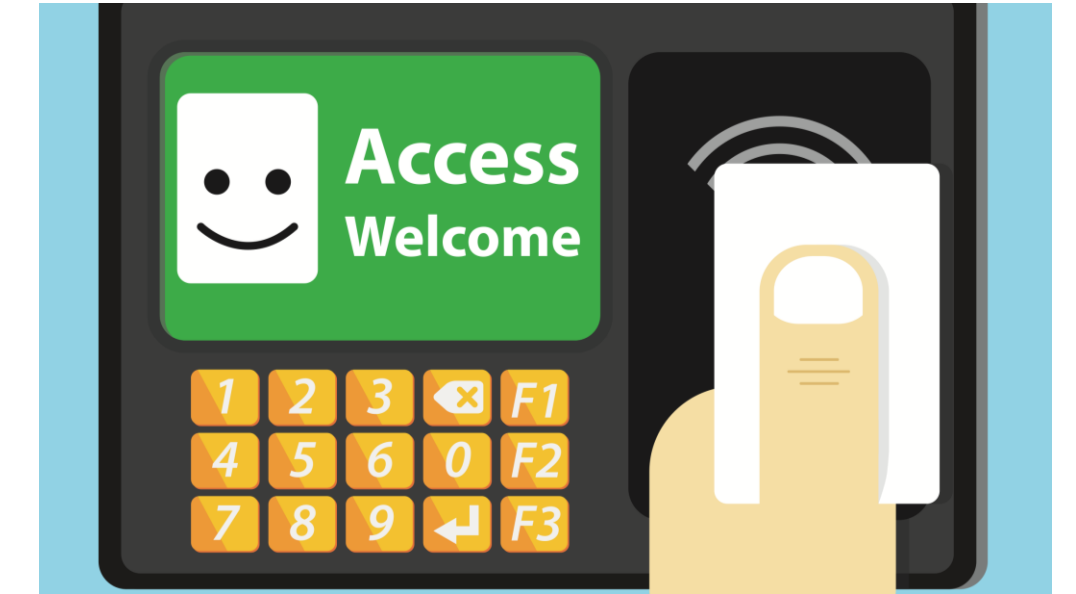
It can be used to solve the issues regarding access control and management both as a separate software product and a part of the TRASSIR integrated security platform

# Everything our customers need for security is now available in **TRASSIR**

## Control

of access to your territory

- ✓ Control and limitation of access using 'Who-Where-When' templates, creation of your own rules
- ✓ Configuration of multi-factor identification
- ✓ Use of the photo and video confirmation function of passes
- ✓ Constructor of a convenient smart notification system



## Surveillance

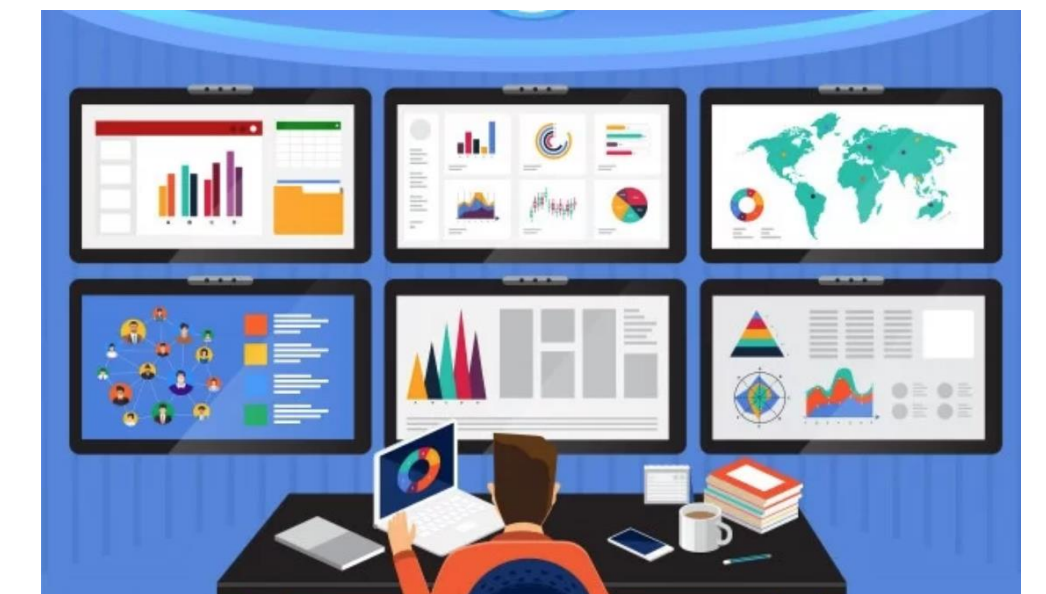
with the help of the world leader of video surveillance systems

- ✓ Monitoring the status of assets in real time from anywhere in the world
- ✓ Viewing video archives linked to ACS events, using convenient searching tools

## Analysis and response

using a powerful video analytics system

- ✓ Control of work discipline using ACS and a face recognition system, unacceptable concentrations of people in restricted areas, masks and uniforms availability
- ✓ Hands-free access for your employees and guests during pandemics
- ✓ Viewing reports to prevent future violations





# Supported hardware

The entire product line of HIKVISION ACS



Controllers



Fingerprint access terminals



Access terminals with face recognition



Access terminals with temperature measurement

# Supported hardware

ZKTeko access terminals



SpeedFace-V5L



ProFaceX





# Module features

- ✓ Personnel management
- ✓ Multi-factor authentication
- ✓ Convenient and fast setting of access levels
- ✓ Flex schedules of work and access
- ✓ Reporting on employee attendance and discipline
- ✓ Temperature access control
- ✓ Setting up flexible responses to events in the system
- ✓ Close interaction with TRASSIR video analytics
- ✓ Equipment setting up and control
- ✓ Photo/Video identification
- ✓ Badge Room
- ✓ Open API
- ✓ Mobile application and browser-based operation



# Identification methods



## Swipe cards

Arranging access by standard swipe cards



## PIN codes

Creating rules of passing by individual PIN codes



## Face recognition systems

Building a hands-free access system using software and hardware face recognition of employees and visitors



## Vehicle plate numbers recognition systems

Setting up access of vehicles to the territory using the AutoTRASSIR automatic number identification module



## Fingerprint

Deploying the fingerprint identification system





**Access control  
by temperature with the  
function of software or  
hardware face recognition**



**The possibility of  
organizing a checkpoint  
with the help of ACS and a  
vehicle plate numbers  
recognition system**



# Multi-factor identification using VMS TRASSIR



## Card reader

Name  
DS-K1T606MF/1/1

Card reader number on controller  
1

Location  
Outside

### Associated channels

NeuroStation-1030/AC-D1120SWDv2 Стол 1

Authentication mode  
Card / Face / Fingerprint / Pin

AND OR

### Authentication by Trassir

Face recognition ☐

License plate recognition ☐

## Card reader

Name  
DS-K1T606MF/1/1

Card reader number on controller  
1

Location

- Face
- Card + Face
- Face + Fingerprint
- Card + Face + Fingerprint
- Face + Fingerprint + Pin
- Card / Face / Fingerprint / Pin
- Fingerprint
- Card + Fingerprint
- Card + Fingerprint + Pin
- Fingerprint + Pin
- Face / Fingerprint
- Card / Fingerprint
- Card
- Card / Face / Pin
- Card + Pin



# Device Management

The ability to configure the main parameters of access points on the device, such as:

- ✓ Type of door opening sensor
- ✓ Type of door opening button
- ✓ Door opening time
- ✓ Permissible time of holding the door

The screenshot displays the 'Setup' tab of the TRASSIR Access Control software. On the left, a tree view lists devices: DS-K1T331, DS-K1T501SF, DS-K1T606MF (expanded), and DS-K1T606MF/1 (selected). Below it are DS-K1T606MF/1/1 and DS-K1T606MF/1/2, followed by DS-K2804 and SpeedFace-V5L [TI]. On the right, the 'Access point' configuration panel is shown. It includes fields for Name (DS-K1T606MF/1), Access point number on controller (1), Door open sensor type (Normally open), Door exit button type (Normally open), Door opening duration (3 sec.), and Door holding alarm timeout (15 sec.). At the bottom, the 'Associated channels' section shows a single channel: NeuroStation-1030/AC-D1120SWDv2 Стол 1.

Setup Help

Search  ADD CONTROLLER

- ▶ DS-K1T331
- ▶ DS-K1T501SF
- ▼ DS-K1T606MF
  - ▼ DS-K1T606MF/1
    - DS-K1T606MF/1/1
    - DS-K1T606MF/1/2
- ▶ DS-K2804
- ▶ SpeedFace-V5L [TI]

### Access point

Name

Access point number on controller

Door open sensor type

Door exit button type

Door opening duration  sec.

Door holding alarm timeout  sec.

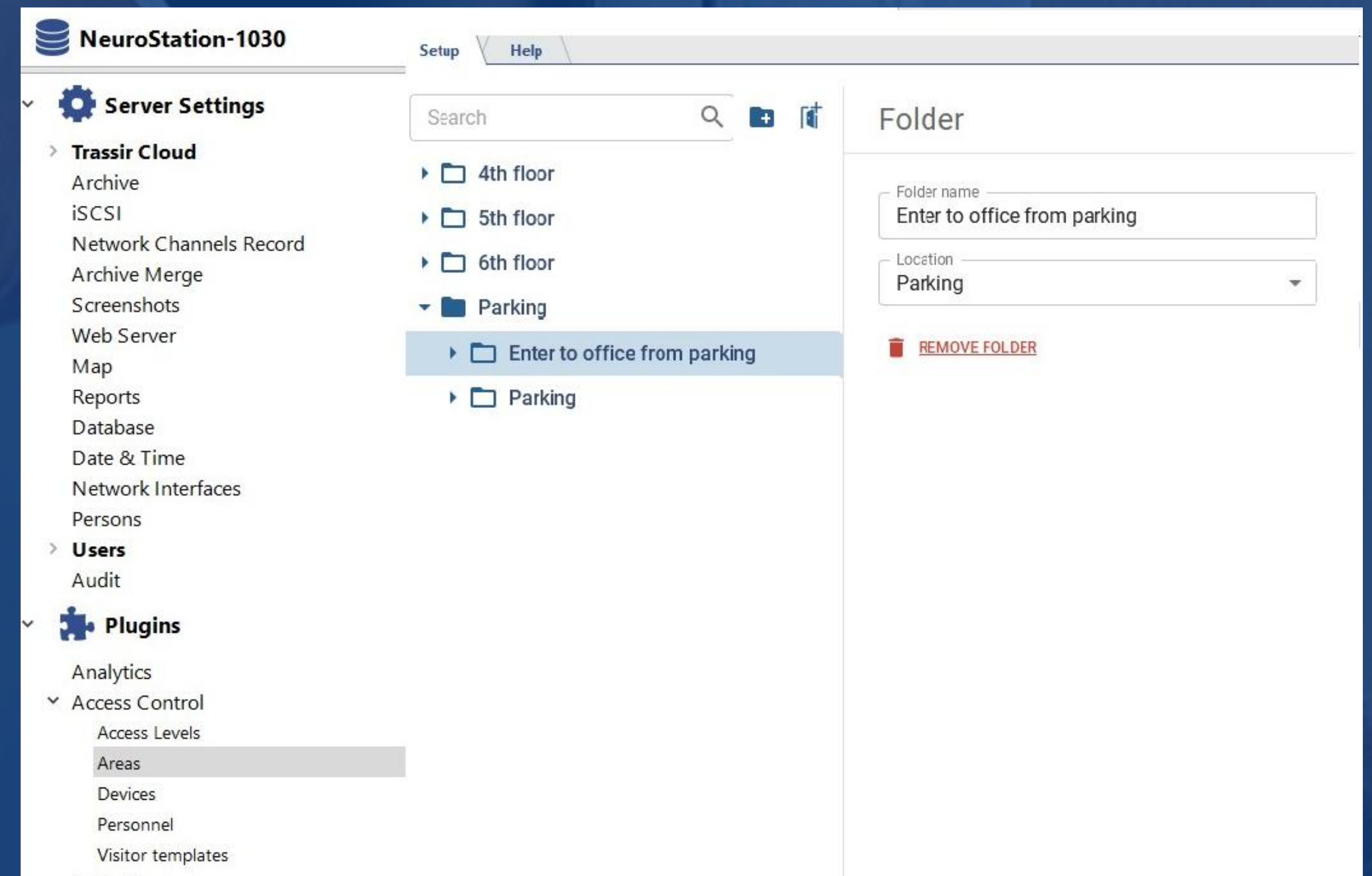
### Associated channels

☒ NeuroStation-1030/AC-D1120SWDv2 Стол 1



# Working with access points

- ✓ Logical grouping of access points and the ability to combine them into groups and zones





# Personnel administration

- ✓ Creation and administration of personnel
- ✓ Grouping and assigning different access levels

The screenshot displays the TRASSIR personnel administration interface. On the left, a sidebar shows a hierarchical list of personnel under 'Office' and 'R&D' categories. The 'R&D' category is expanded, showing a list of names including Barbara Riley, Beatrice Stone, Betty McGee, Charlotte Jimenez, Constance Harvey, Donald Briggs, Eric Schmidt (listed twice), Eric Williamson, Janet Moore, Jennifer Wright, John Adkins, John Davis, John Jones, Jorge Beck, Juan Sutton, and Kazarez Alexey (highlighted at the bottom). The main panel on the right shows the detailed profile for 'Kazarez Alexey'. It includes a search bar, an 'ADD' button, and a profile card with a photo and personal details: Gender: Male, Birth date: 01/01/1980, Group: R&D, Personnel Number: 10. Below the profile card, there are buttons for 'UPDATE FACE IN FACE DB' and 'REMOVE FACE FROM FACE DB'. A 'Work schedule' dropdown menu is set to 'Not selected'. The 'Identifiers' section shows three identifiers: 2139240784, H999HH, and 12345, along with a 'Forefinger' identifier. The 'TRASSIR user' section shows the email 'a.kazarez@dssl.ru'. At the bottom, an 'Access levels' dropdown menu is also set to 'Not selected'.

Setup Help

Search ADD

Office

Administration

- James Lyons
- Joseph Edwards
- June Freeman
- Richard Haynes
- Robert Holt

R&D

- Barbara Riley
- Beatrice Stone
- Betty McGee
- Charlotte Jimenez
- Constance Harvey
- Donald Briggs
- Eric Schmidt
- Eric Schmidt
- Eric Williamson
- Janet Moore
- Jennifer Wright
- John Adkins
- John Davis
- John Jones
- Jorge Beck
- Juan Sutton
- Kazarez Alexey

Kazarez Alexey

Gender: Male  
Birth date: 01/01/1980  
Group: R&D  
Personnel Number: 10

Тестер в М5.

UPDATE FACE IN FACE DB

REMOVE FACE FROM FACE DB

Work schedule  
Not selected

Identifiers

2139240784 H999HH 12345

Forefinger

TRASSIR user

a.kazarez@dssl.ru

Access levels  
Not selected



# Who-Where-When

✓ Access levels, schedules setting, and assigning each person an appropriate access level

NeuroStation-1030

SetupHelp

Server Settings

Trassir Cloud

Archive

iSCSI

Network Channels Record

Archive Merge

Screenshots

Web Server

Map

Reports

Database

Date & Time

Network Interfaces

Persons

Users

Audit

Plugins

Analytics

Access Control

Access Levels

Areas

Devices

Edit access level

Name

4th floor

Comment

Access points

DS-K1T331/1

Persons and groups

Barbara Riley

Beatrice Stone

Betty McGee

Charlotte Jimenez

Constance Harvey

Donald Briggs

Eric Schmidt

SETUP SCHEDULE

SAVE

CANCEL

SCHEDULEHOLIDAYS

☒ Calendar week

From Monday until Sunday

Mo	Beginning	End	
	09:00	18:00	
Tu	Beginning	End	
	09:00	18:00	
We	Beginning	End	
	09:00	18:00	
Th	Beginning	End	
	09:00	18:00	
Fr	Beginning	End	
	09:00	18:00	
Sa	Beginning	End	
	-	-	
Su	Beginning	End	
	-	-	

OKCANCEL

Select access point

Search

☒ 4th floor

☒ 4th floor enter

☐ 4th floor server room

☐ 5th floor

☐ 6th floor

☐ Parking

OKCANCEL



# Creating work and staff access schedules

- ✓ Flexible configuration of work schedules and access schedules for employees
- ✓ Support for interval schedules
- ✓ Adding exception days to any schedules

The image displays three screenshots of the 'Work schedule' configuration interface, illustrating different scheduling capabilities.

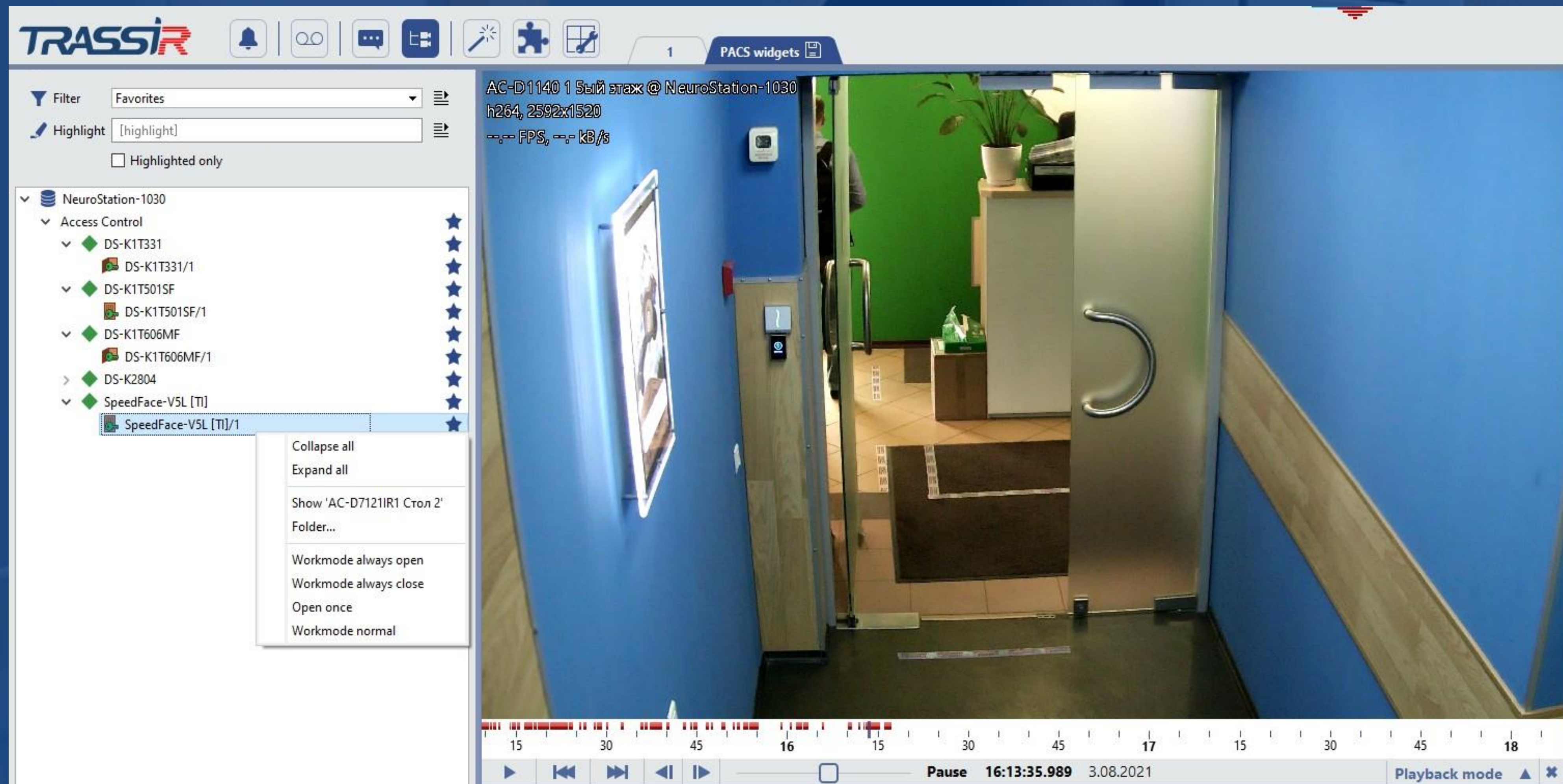
**Top Left Screenshot:** Shows a 'Work schedule' window with the name '5-2 (from 9.00 to 18.00)'. The 'SCHEDULE' tab is active, showing a 'Calendar week' option selected. The schedule is defined by a single interval: Monday to Friday, 09:00 to 18:00.

**Top Right Screenshot:** Shows a 'Work schedule' window with the name '2 - 2'. The 'SCHEDULE' tab is active, showing a 'Calendar week' option. A 'Start date' of 08/03/2021 is set. The schedule is defined by four intervals (1, 2, 3, 4) with start times of 08:00 and end times of 20:00.

**Bottom Screenshot:** Shows a 'Work schedule' window with the name '5-2 (from 9.00 to 18.00)'. The 'HOLIDAYS' tab is active, showing a list of exception days: 08/03/2021, 08/04/2021, and 08/05/2021. Each date has a corresponding 'Beginning' and 'End' time field.



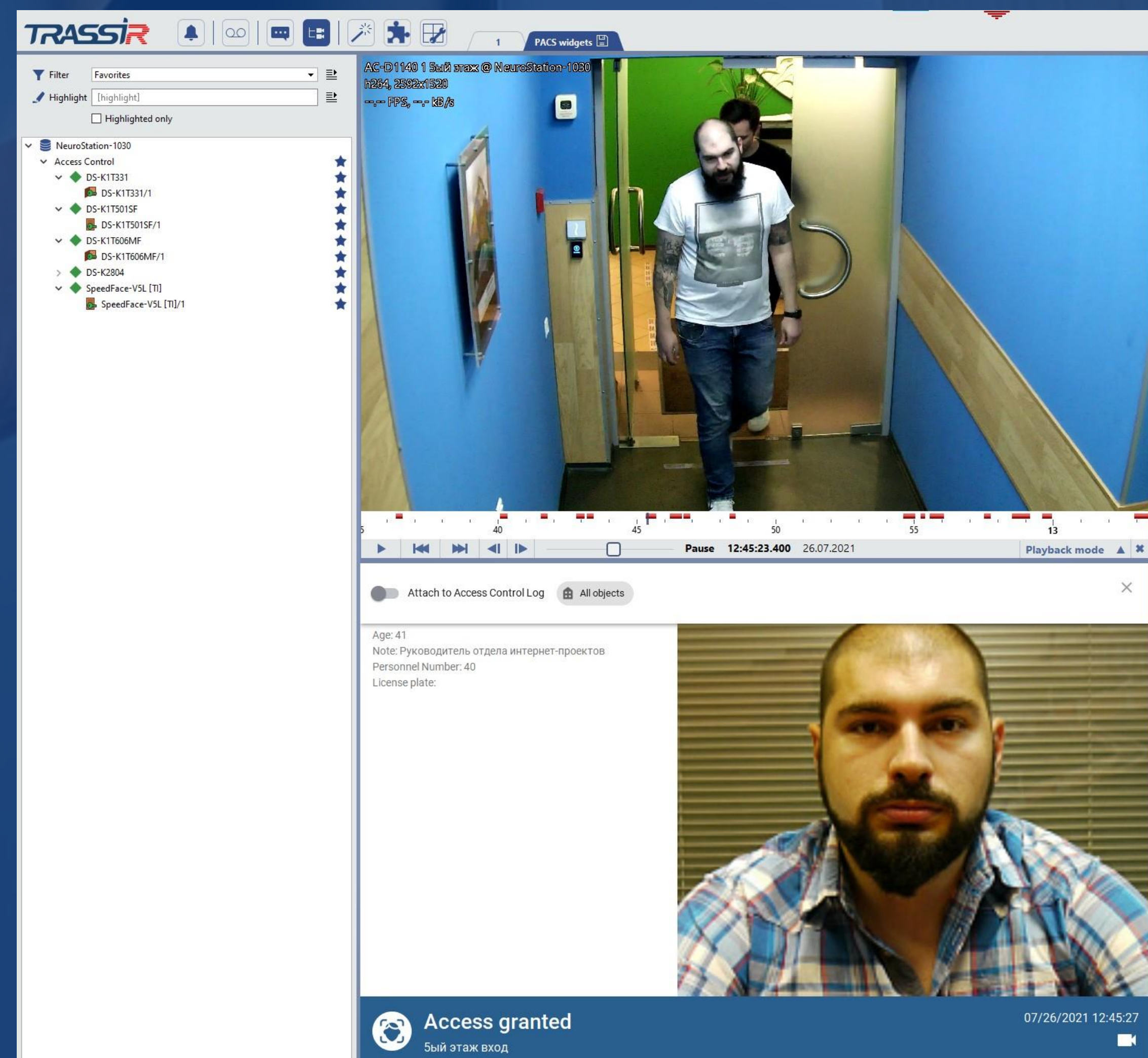
# Objects monitoring and manual remote control of devices





# Event Log

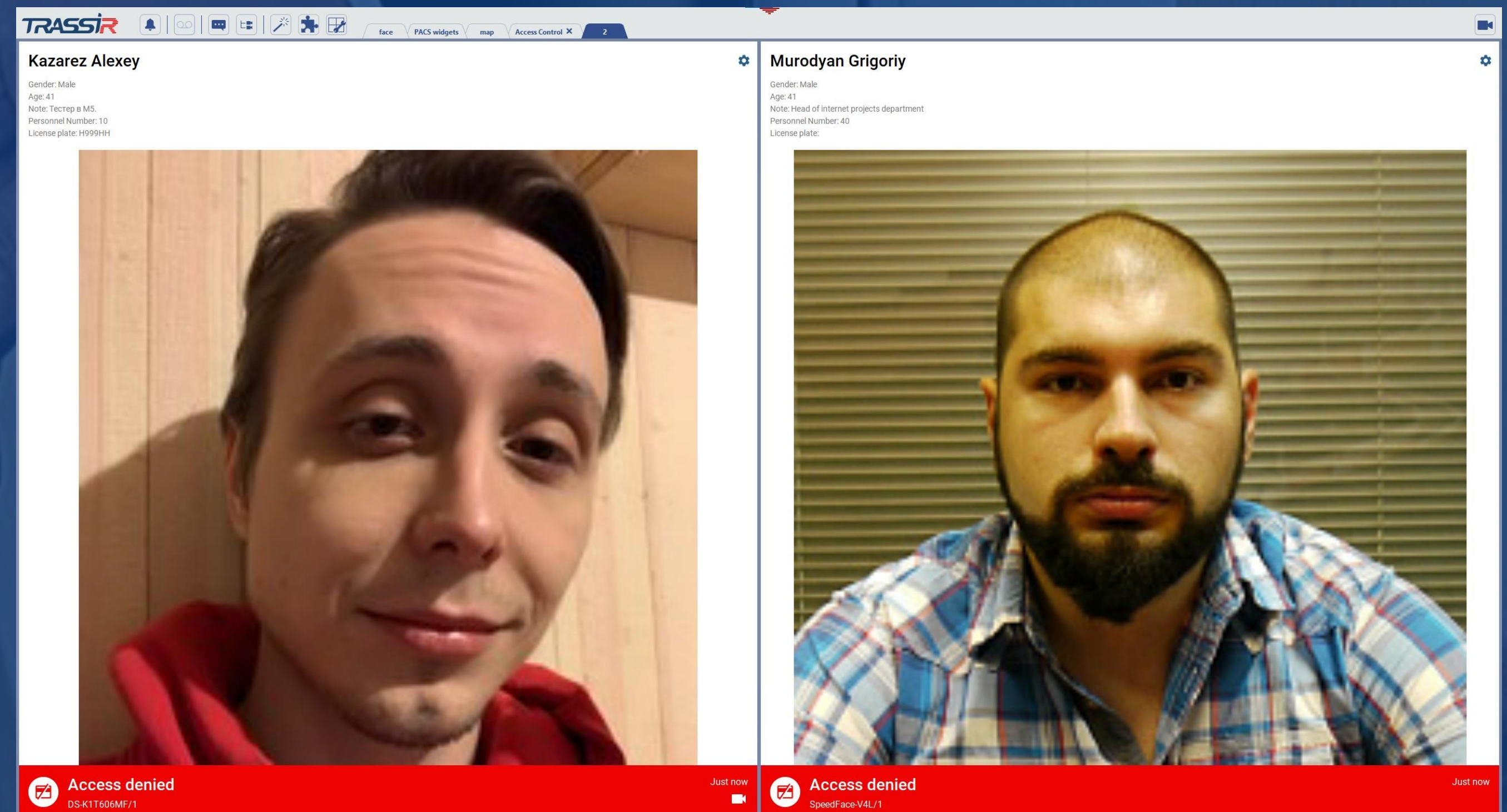
- ✓ Searching and viewing videos linked to the event and the ACS device in the event log
- ✓ The ability to filter and search for events based on employees, access points, event type and time for incident investigation





# Photo and video verification of passages

- ✓ Displaying an extended employee card for displaying on screen of the security post





# Photo and video verification of passages

- ✓ Widgets flexible configuration of security system module in one window for the operator

The screenshot displays the TRASSIR security system interface. The top left features a search bar and filters for event types, persons, and objects. Below this is a table of recent events:

NAME	EVENT	OBJECT	DATE AND TIME
Murodyan Grigoriy	Access denied	SpeedFace-V4L/1	Just now
Unknown person	Access denied	5th floor enter	16:39:31
Unknown person	Access denied	5th floor enter	16:39:29
Kachurin Alexander	Access granted	DS-K1T606MF/1	16:37:32
System	Holding door o...	DS-K1T606MF/1	16:36:25
Kachurin Alexander	Access granted	DS-K1T606MF/1	16:36:07
System	Holding door o...	DS-K1T606MF/1	16:33:35
Kachurin Alexander	Access granted	DS-K1T606MF/1	16:33:17
Kachurin Alexander	Access granted	DS-K1T606MF/1	16:33:02

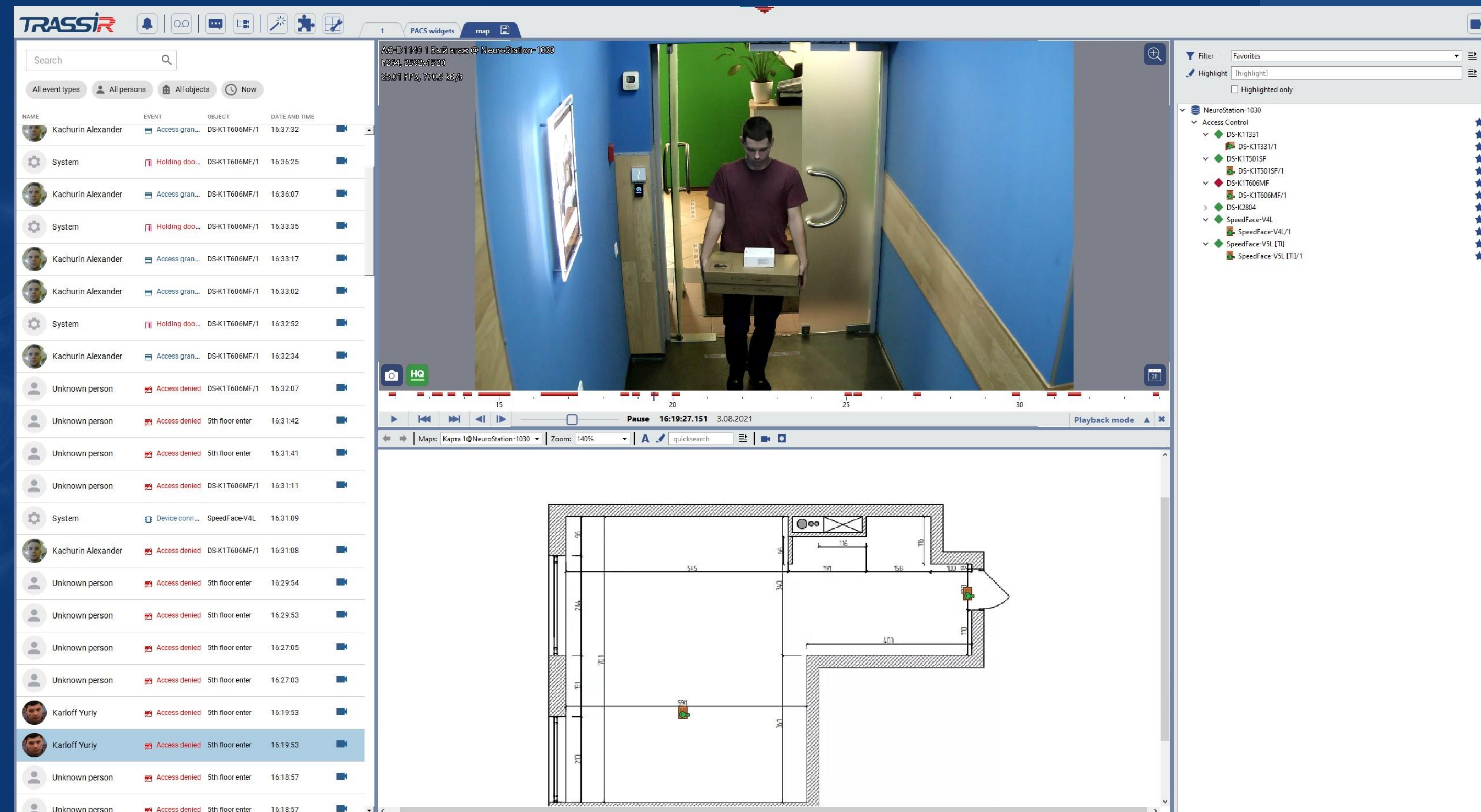
Below the table, a detailed view for 'Murodyan Grigoriy' is shown, including his gender (Male), age (41), and a photo. A red banner at the bottom indicates 'Access denied' for 'SpeedFace-V4L/1' at 'Just now'.

The right side of the interface contains four video feeds showing different areas of the facility. Below the video feeds is a floor plan diagram with a red dot indicating a specific location.



# Working with premises plans

- ✓ Uploading premises plans
- ✓ Displaying ACS devices and CCTV and their states on the premises plan
- ✓ Video view from the premises plan
- ✓ Manual control of ACS devices from the premises plan





# Recording of working time

- ✓ Recording of working time per days
- ✓ Employee statistics
- ✓ Report of employee location in the zone
- ✓ Uploading to xls

Attendance report (07/01/2021 – 07/31/2021)

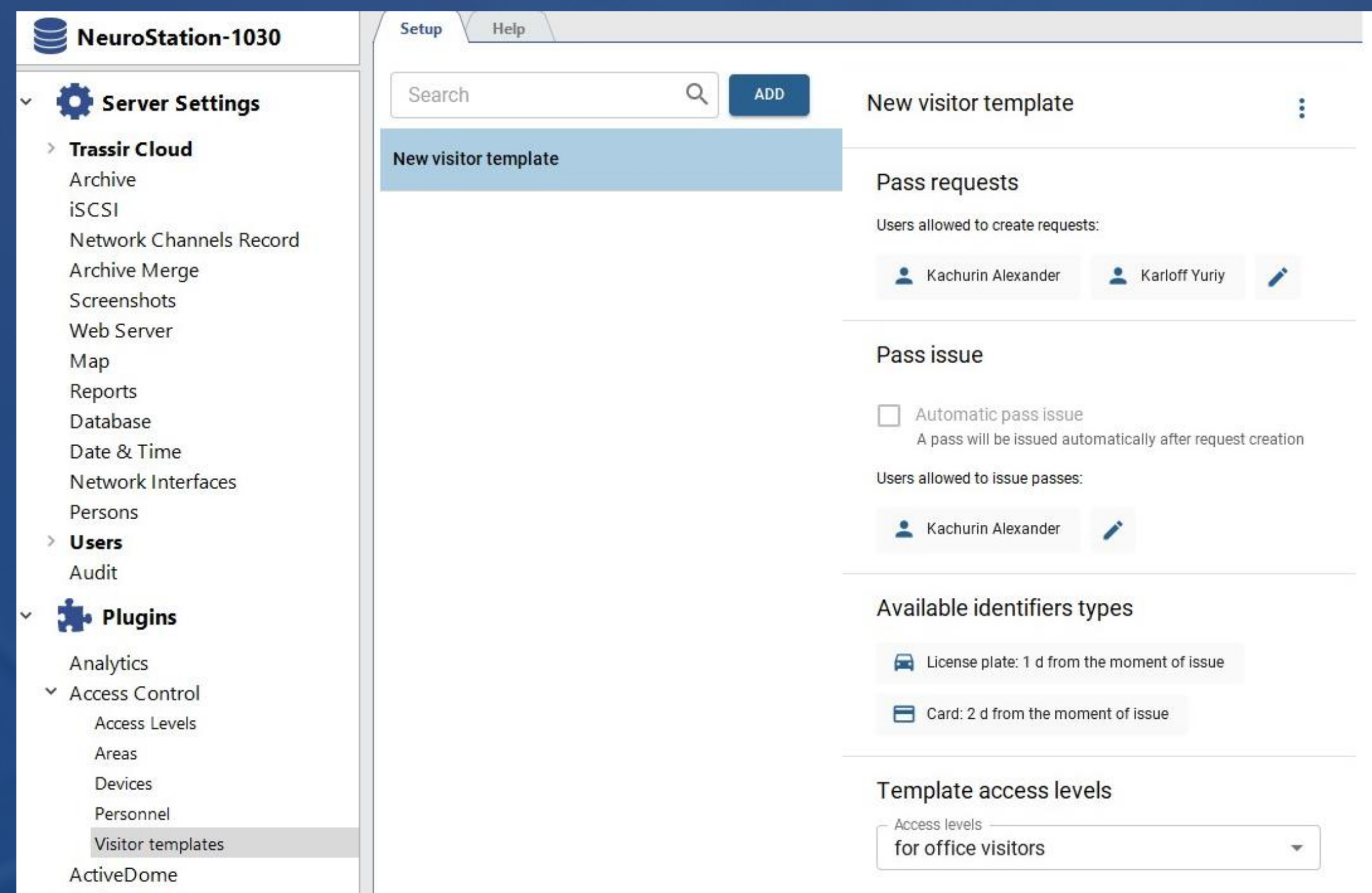
Download XLSX

Name	Personnel number	Group	Schedule name	Visits info							
				Date	Arrival	Departure	Actual hours	Plan hours	Being late	Early leaving	Overtime
Kachurin Alexander	33	R&D	5-2 (from 11:00 to 19:30)	01.07.2021	15:22	21:16	05:54	08:00	04:22		
				02.07.2021	11:19	11:19	00:00	08:00	00:19	08:11	
				03.07.2021	-	-	00:00				
				04.07.2021	-	-	00:00				
				05.07.2021	-	-	00:00	08:00			
				06.07.2021	-	-	00:00	08:00			
				07.07.2021	-	-	00:00	08:00			
				08.07.2021	-	-	00:00	08:00			
				09.07.2021	-	-	00:00	08:00			
				10.07.2021	-	-	00:00				
				11.07.2021	-	-	00:00				
				12.07.2021	-	-	00:00	08:00			
				13.07.2021	12:47	20:22	07:35	08:00	01:47		
				14.07.2021	00:18	06:55	06:37	08:00		12:35	
				15.07.2021	-	-	00:00	08:00			
				16.07.2021	-	-	00:00	08:00			
				17.07.2021	-	-	00:00				
				18.07.2021	-	-	00:00				
				19.07.2021	18:22	18:22	00:00	08:00	07:22	01:08	
				20.07.2021	-	-	00:00	08:00			
				21.07.2021	-	-	00:00	08:00			
				22.07.2021	-	-	00:00	08:00			
				23.07.2021	-	-	00:00	08:00			
				24.07.2021	-	-	00:00				
				25.07.2021	-	-	00:00				
				26.07.2021	-	-	00:00	08:00			
				27.07.2021	-	-	00:00	08:00			
				28.07.2021	-	-	00:00	08:00			
				29.07.2021	-	-	00:00	08:00			
				30.07.2021	-	-	00:00	08:00			
				31.07.2021	-	-	00:00				



# Badge Room

- ✓ Creating individual templates for ordering a pass for each organization, residential building, user
- ✓ The role of the administrator for issuing passes
- ✓ Organization of the process with automatic access granting on request
- ✓ Setting up time limits for visitors' stay





# Access via the browser

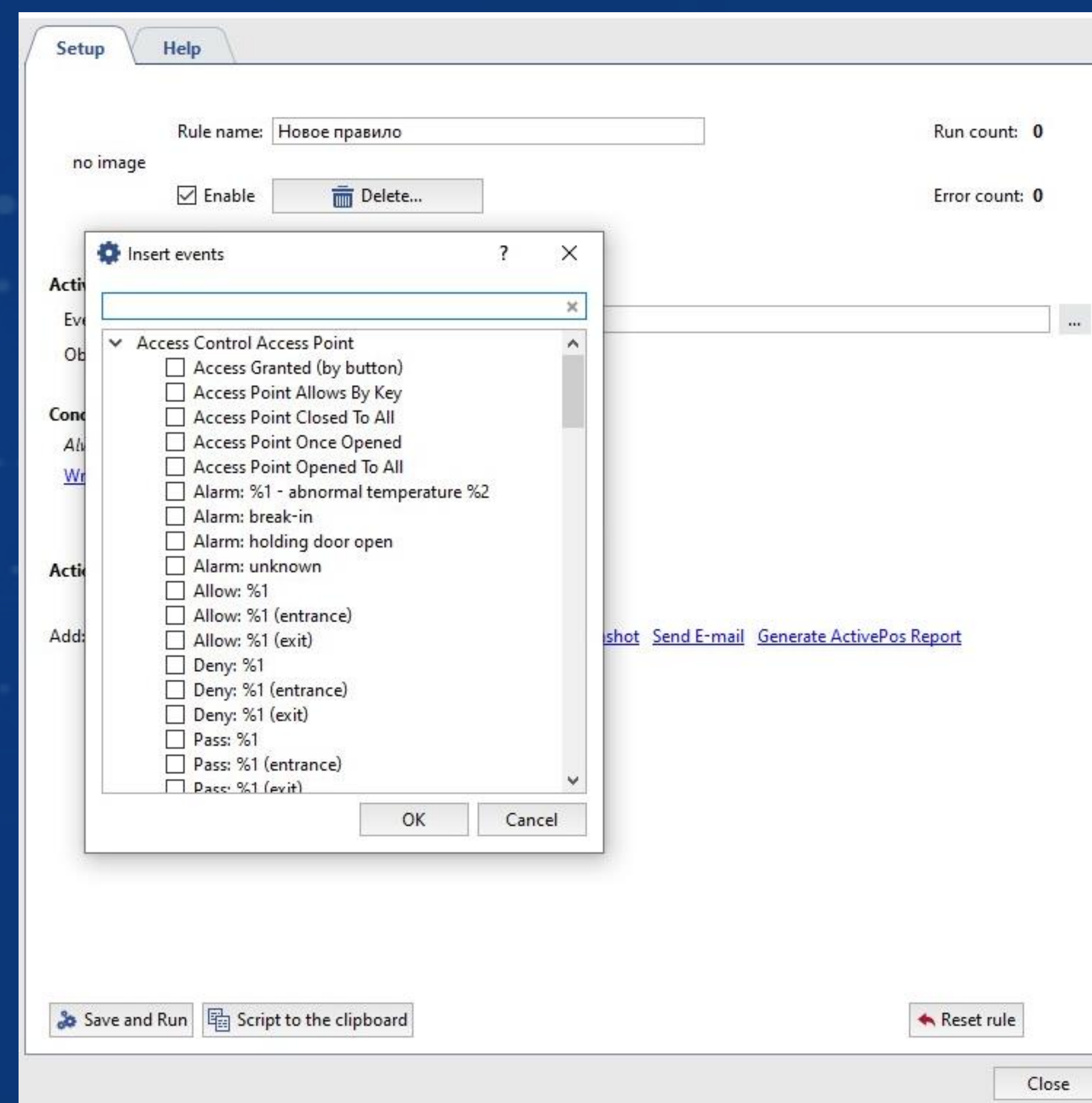
- ✓ TRASSIR ACS configuration and administration
- ✓ Personnel management
- ✓ Reports Viewer
- ✓ Working with the Badge Room

The screenshot displays the TRASSIR web interface. On the left is a sidebar menu with options: ADMIN, Devices, Areas, Personnel (highlighted), Access Levels, Visitor templates, Reports, and Access permit requests. The main content area is divided into two columns. The left column shows a hierarchical list of personnel under 'Компания' > 'Office' > 'R&D', with names like Barbara Riley, Beatrice Stone, Betty McGee, etc., and 'Kachurin Alexander' highlighted at the bottom. The right column shows the detailed profile for 'Kachurin Alexander', including personal information (Gender: Male, Birth date: 11/02/1993, Group: R&D, Personnel Number: 33), a profile picture, and buttons for 'UPDATE FACE IN FACE DB' and 'REMOVE FACE FROM FACE DB'. Below this is a 'Work schedule' dropdown set to '5-2 (from 11:00 to 19:30)'. Further down is the 'Identifiers' section with fields for ID card (0346650760), Car (K281PY123), and PIN (1337). The 'TRASSIR user' section shows the email 'a.kachurin@dssl.ru'. At the bottom is an 'Access levels' dropdown set to 'Full day every where'.



# System response scenarios

- ✓ Creating flexible rules/scripts in Trassir based on ACS events





# Integration with third-party systems

- ✓ Integration with third-party systems
- thanks to an open API

Запрос

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

Ответ

```
{
  "info": {
    "errors": [],
    "family": "emulator",
    "id": 7,
    "ip_address": "192.168.1.201",
    "licensed": true,
    "login": "admin",
    "name": "New device",
    "password": "",
    "port": 8000,
    "status": "CONNECTING"
  }
}
```



# Advantages:

## ✓ Comprehensive solution

ACS, video surveillance, video analytics - all these are modules of a single platform that allow you to use any features of the Trassir ecosystem in a single interface. Simple, convenient and effective!

## ✓ One server for two systems

Now there is no need to maintain 2 separate servers for the operation of ACS and video surveillance. Both systems work great on one server !

## ✓ Everything you need for security

Our company is one of the largest suppliers of equipment and software for security systems in Russia. You can purchase everything you need from us!

## ✓ Pre-sale and after sale support

Technical support staff is ready to demonstrate all the features of the system and provide support on request





[www.trassir.com](http://www.trassir.com)

