

eocortex 

Eocortex 4.0

more powerful
than ever!



AGENDA

Strategy of Eocortex product development

Novelties of 4.0 Performance optimization

Novelties of 4.0 Features for convenient monitoring

Novelties of 4.0 More integrations

Novelties of 4.0 Level up security

Novelties of 4.0 Mobile application features

Novelties of 4.0 New video analytics

Special offers from Eocortex

EOCORTEX ON A VIDEO SURVEILLANCE MARKET MORE THAN 13 YEARS

85+
countries

~15,000
projects implemented
with Eocortex

~1,000,000
cameras operating on
Eocortex



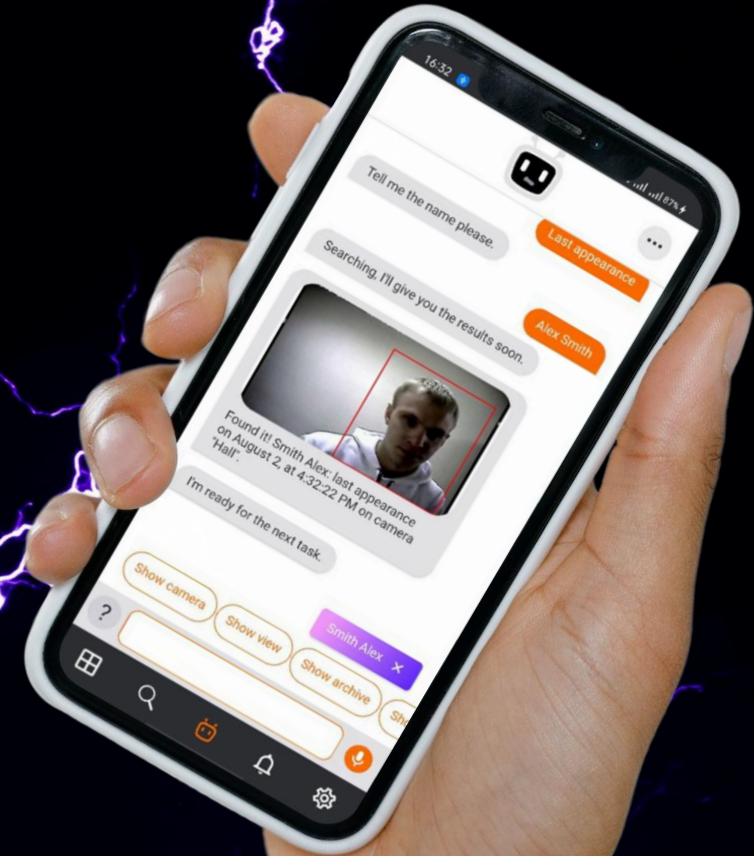
Eocortex LTD:
smart video surveillance
software with video
analytics

eocortex 

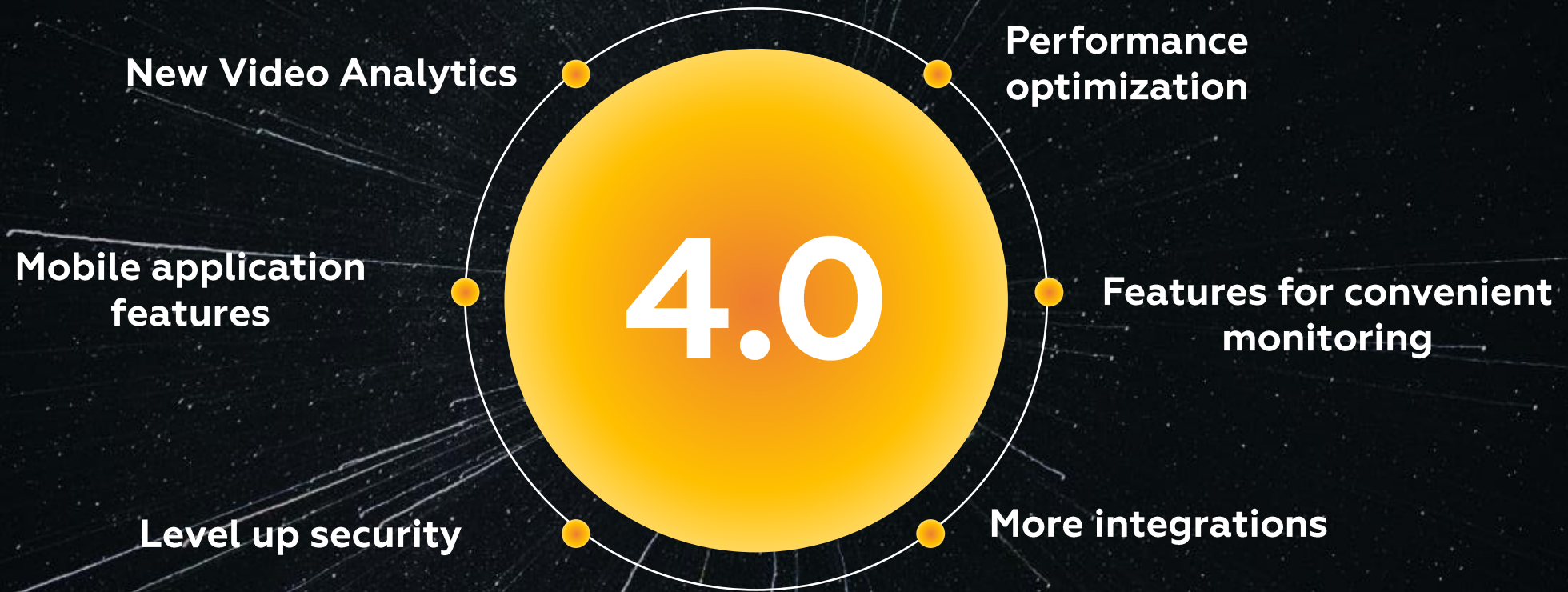
THERE IS NO NEED TO CONTACT OTHERS

All components of Eocortex including video analytics are created by ourselves **in a single product** with no need for customers to contact different providers of video management software or video analytics.

We make sure all components are **easy to setup and use**



EOCORTEX 4.0. MORE POWERFUL THAN EVER!





LET'S ROLL!



Performance optimization

Reducing the load on the system

**RELIABLE, FASTER, MORE
POWERFUL - CONVERSION TO
PostgreSQL**

SMOOTH CONVERSION TO A NEW DATABASE



Up to 4 times faster access to the Events log and reports of video analytic modules (depending on the database size)



Up to 10 times acceleration for modules License Plate Recognition, Face Recognition, Traffic Density Heat Map, Search for Objects



With even more stable database, we will implement more useful features for our partners and customers

New database is available on all Eocortex systems

Does not require additional licensing!

FACE RECOGNITION COMPLETE: REDUCING RESOURCE REQUIREMENTS

OPTIMIZATION OF THE FACE RECOGNITION COMPLETE MODULE

1

Consumption of CPU and GPU resources is reduced, resulting in lower server hardware requirements, and **consequently lower cost.**

2

Existing systems are able now to **host more channels with Face Recognition** without replacing hardware by more powerful

● Up to **1.2**
times for CPU

● Up to **2.8**
times for GPU

40-50%

more channels with Neural
Networks Special

**EVEN LOWER LOAD
ON YOUR SERVER**

OPTIMIZATION OF THE CLIENT AND OTHER APPLICATIONS

Reducing memory (RAM) consumption when running applications:



Eocortex Client
by up to **3 times**



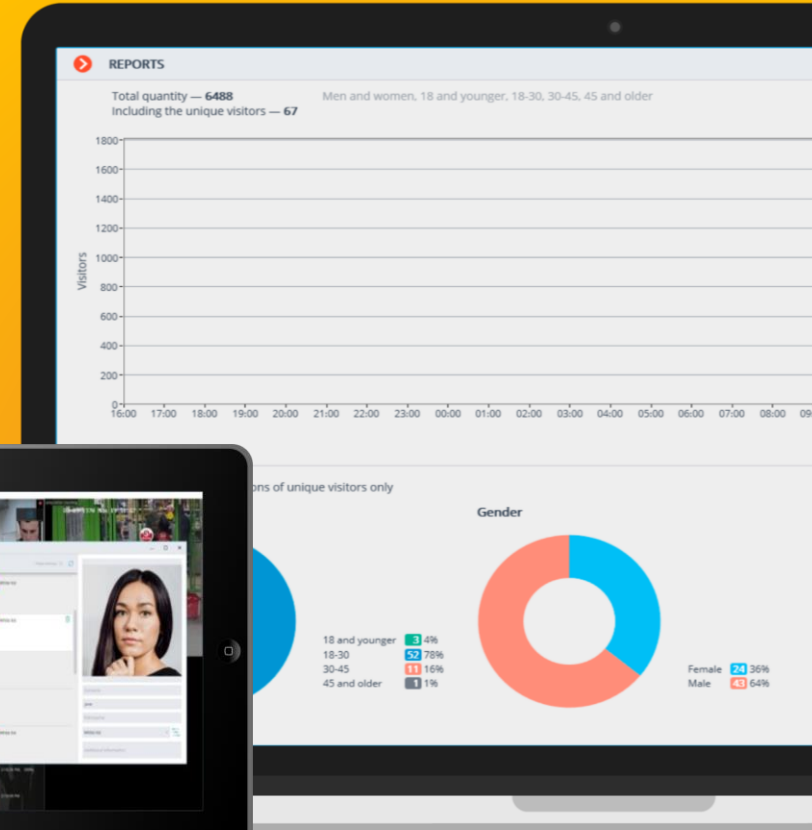
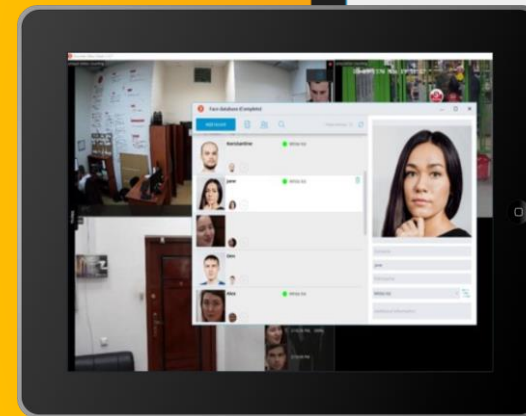
Eocortex Configurator
by up to **3 times**



Eocortex Status Info
by up to **8 times**



Eocortex Standalone
by up to **6 times**



OPTIMIZATION OF THE CLIENT AND OTHER APPLICATIONS

Improving the responsiveness of the client application interface



Up to 10 times faster speed of launching interface items



Up to 5 times lower load on RAM when launching

Opening speed
of the View Editor

v.4.0

~~v.3.6
10 sec.~~

1 sec.

Opening load of the
Client Application

~~v. 3.6
1900 mb.~~

v.4.0

500 mb.

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REAL CASE OF SYSTEM REQUIREMENTS

TASK: A system with 100 channels, 50 cameras work with the Face Recognition module

EOCORTEX 3.6

Number of computers: **3**

Total RAM: **92GB**

Total disk capacity: **10.3 TB**

Eocortex №1



SYSTEM CONFIGURATION

Total number of cameras: 100 pcs
Number of computers: 3 pcs
Total RAM: 92GB
Total disk capacity: 10.3 TB
Total disk write speed: 42.7 Mbyte/s
Total channel width from cameras: 393.1 Mbit/s
Eocortex license: L5



COMPUTER CONFIGURATION 1

Processor: Intel CORE I9-10900K
Platform: s-1200
Memory: 36 GB
Network adapter: 1 Gbit/s
Recommended video card: GeForce RTX 3060 ti
Hard drives: 2x4.0 TB
Disk write speed: 15.0 Mbyte/s
Channel width from cameras: 275.1 Mbit/s



COMPUTER CONFIGURATION 2

Processor: Intel CORE I9-10900K
Platform: s-1200
Memory: 36 GB
Network adapter: 1 Gbit/s
Recommended video card: GeForce RTX 3060 ti
Hard drives: 4.0 TB
Disk write speed: 8.5 Mbyte/s
Channel width from cameras: 78.6 Mbit/s



COMPUTER CONFIGURATION 3

Processor: Intel CORE I5-10400
Platform: s-1200
Memory: 20 GB
Network adapter: 1 Gbit/s
Recommended video card: GeForce RTX 2060
Hard drives: 2.0 TB
Disk write speed: 4.3 Mbyte/s
Channel width from cameras: 39.3 Mbit/s

REAL CASE OF SYSTEM REQUIREMENTS

TASK: A system with 100 channels, 50 cameras work with the Face Recognition module

EOCORTEX 4.0

Number of computers: 1

Total RAM: 84GB

Total disk capacity: 10.3 TB

Eocortex Nº1

SYSTEM CONFIGURATION		COMPUTER CONFIGURATION 1	
Total number of cameras:	100 pcs	Processor:	Intel CORE I7-10700
Number of computers:	1 pcs	Platform:	s-1200
Total RAM:	84GB	Memory:	84 GB
Total disk capacity:	10.3 TB	Network adapter:	1 Gbit/s
Total disk write speed:	42.7 Mbyte/s	Recommended video card:	GeForce RTX 3060
Total channel width from cameras:	393.1 Mbit/s	Hard drives:	2x6.0 TB
		Disk write speed:	21.4 Mbyte/s
		Channel width from cameras:	393.1 Mbit/s

REAL CASE OF SYSTEM REQUIREMENTS

TASK: A system with 100 channels, **100** cameras work with the Face Recognition module

EOCORTEX 4.0

Number of computers: 2

Total RAM: 168GB

Total disk capacity: 10.3 TB

Eocortex №1

SYSTEM CONFIGURATION

- Total number of cameras: 100 pcs
- Number of computers: 2 pcs
- Total RAM: 168GB
- Total disk capacity: 10.3 TB
- Total disk write speed: 42.7 Mbyte/s
- Total channel width from cameras: 393.1 Mbit/s

COMPUTER CONFIGURATION 1

- Processor: Intel CORE I9-11900KF
- Platform: s-1200
- Memory: 84 GB
- Network adapter: 1 Gbit/s
- Recommended video card: GeForce RTX 3060 ti
- Hard drives: 6.0 TB
- Disk write speed: 21.4 Mbyte/s
- Channel width from cameras: 196.5 Mbit/s

COMPUTER CONFIGURATION 2

- Processor: Intel CORE I9-11900KF
- Platform: s-1200
- Memory: 84 GB
- Network adapter: 1 Gbit/s
- Recommended video card: GeForce RTX 3060 ti
- Hard drives: 6.0 TB
- Disk write speed: 21.4 Mbyte/s
- Channel width from cameras: 196.5 Mbit/s



Features for convenient monitoring

convenient work with the archive, setting up
group tasks and more

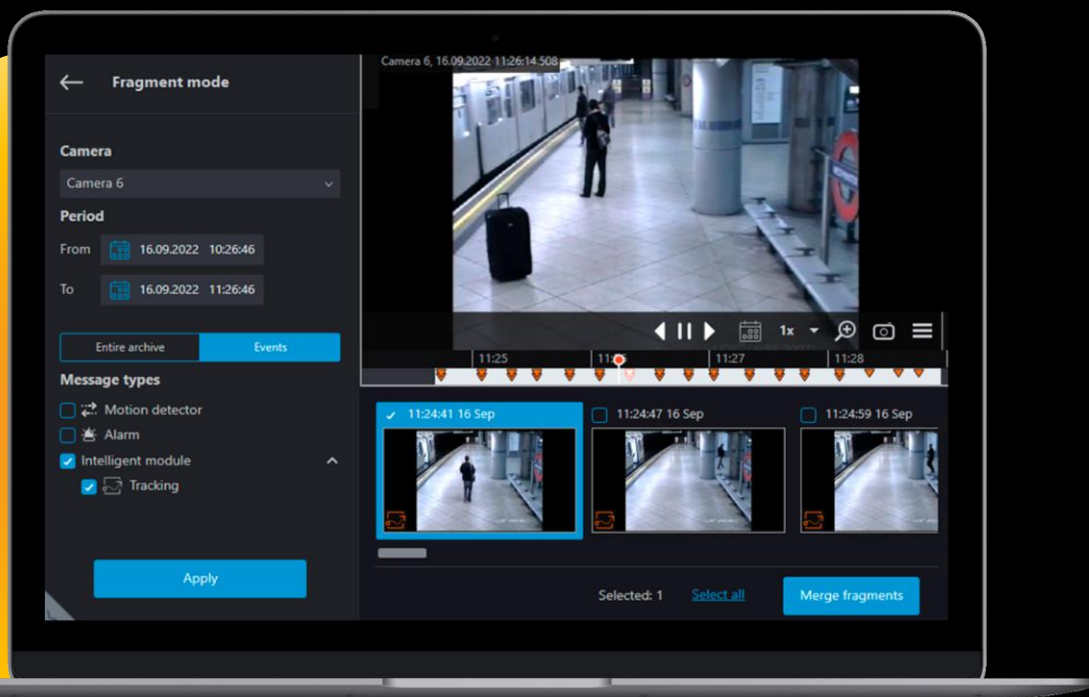
**WORK WITH THE ARCHIVE -
WITHOUT THE COMPLEXITY!**

VIDEO CLIP BY EVENTS

WHAT IS IT FOR:

- Working with the archive is even more convenient! Do not review the entire archive - choose fragments with specific events
- Export video with the necessary fragments without exporting the entire archive

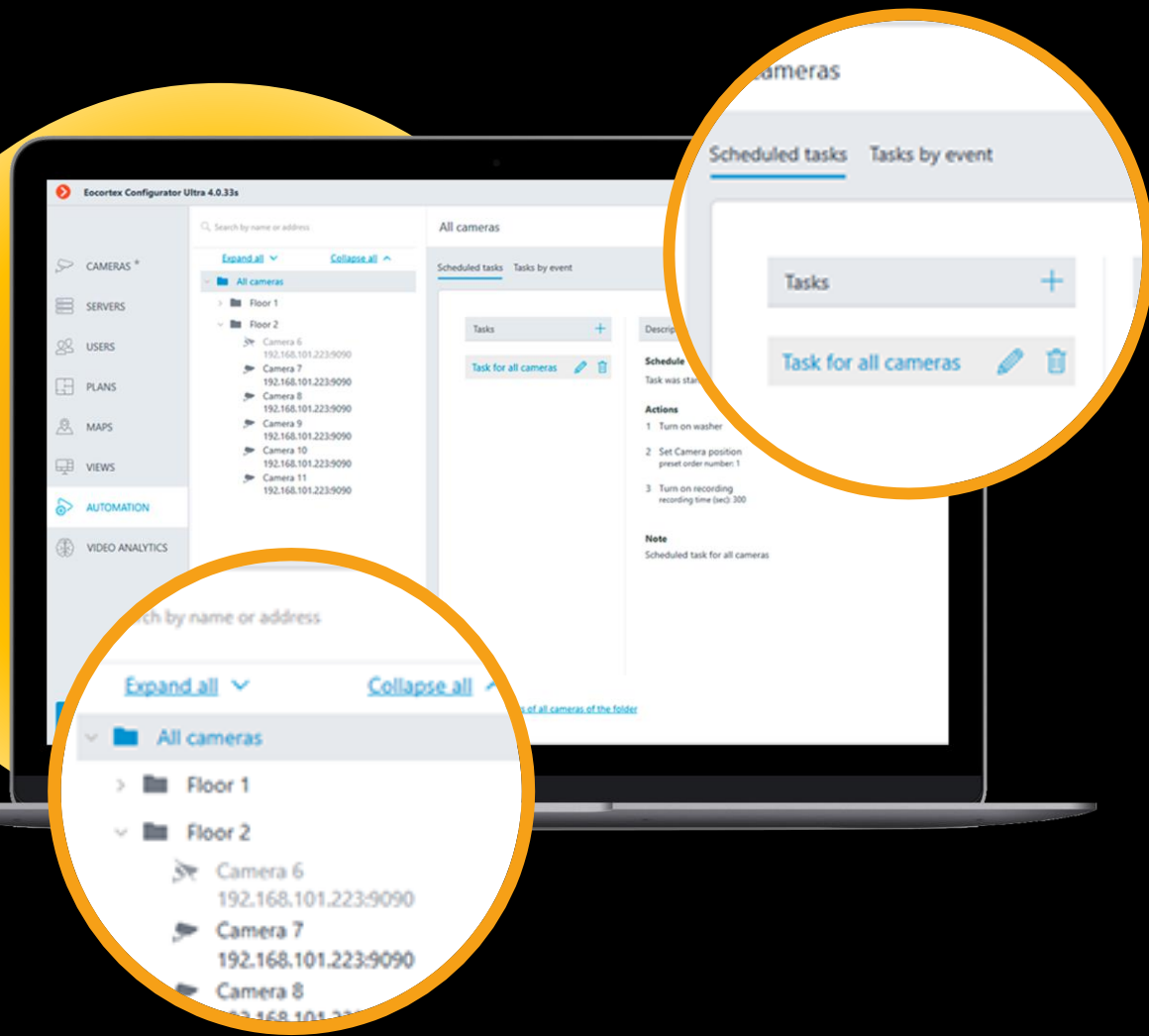
For example, you can export video only with those fragments where there was movement in the frame



A dramatic, low-angle photograph of a stormy sky over a body of water. The sky is filled with dark, heavy clouds, and several bright, jagged lightning bolts are visible, illuminating the scene with a warm, orange-gold light. The water in the foreground is dark and reflects the light from the lightning. The overall mood is intense and powerful.

LESS TIME FOR SYSTEM SETUP

IMPROVEMENT OF AUTOMATION SCENARIOS FOR GROUPS OF CAMERAS



Create groups of cameras, combine them into folders and edit scenarios for large sets of channels

- No need anymore for editing similar scenarios for each camera separately
- Each action now can be assigned with an individual name

For example, there are 300 cameras connected to the system. The administrator set up sending a notification via email when alarm is triggered, but he made a typo. Now he can change e-mail for all 300 cameras in a few clicks.

A dramatic landscape photograph of a stormy sky over a body of water. The sky is filled with dark, heavy clouds, and several bright, jagged lightning bolts are visible, illuminating the scene with a warm, orange-gold glow. The water in the foreground is dark and reflects the light from the lightning. The overall mood is intense and powerful.

LOGIN EVEN EASIER

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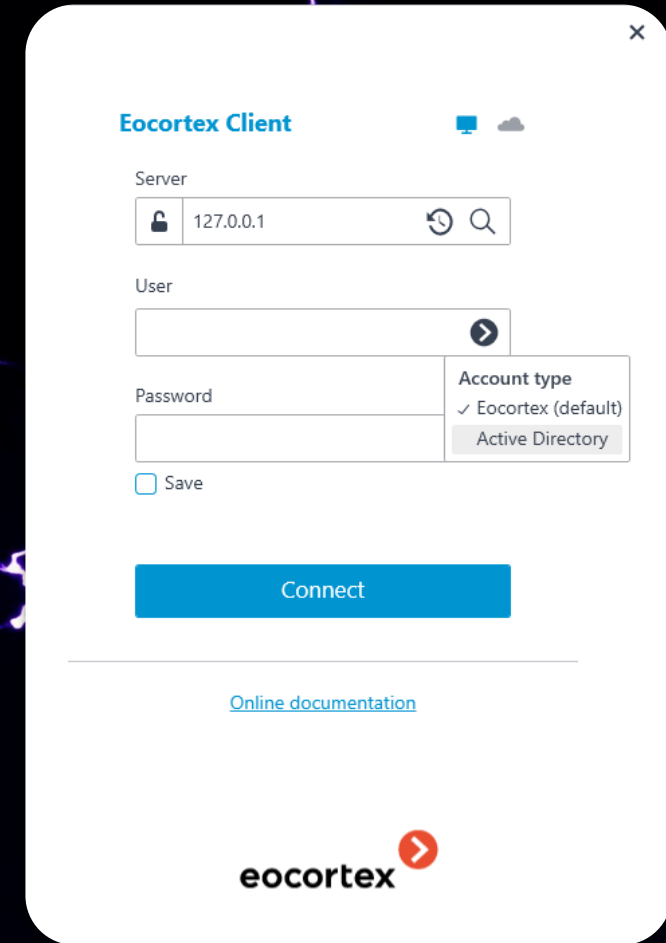
ACTIVE DIRECTORY: SINGLE SIGN-ON

- **What is it for:**

Increased convenience for operators through a simplified login method for authorized Windows domain users.

- **Advantages:**

Users logging into Eocortex via Active Directory will no longer have to re-enter their username and password after logging into the operating system.

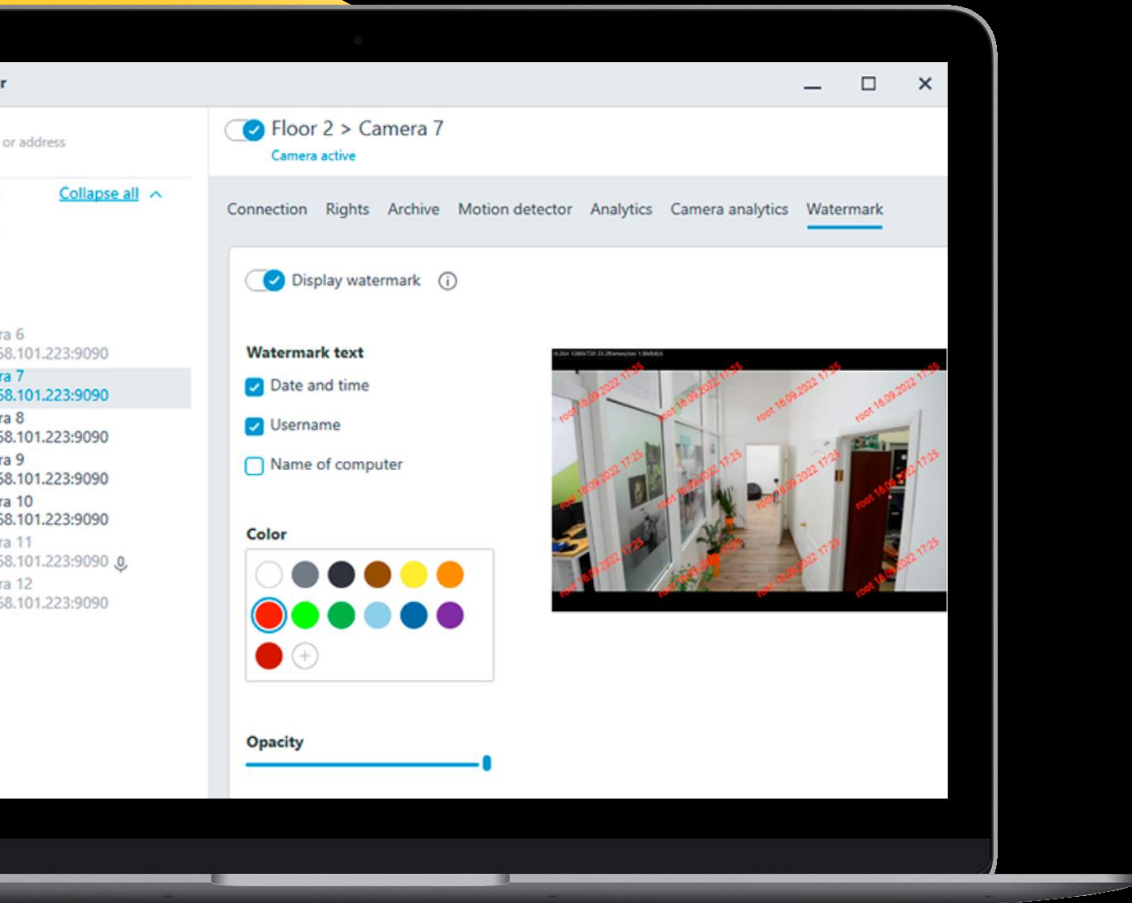


The screenshot shows the Eocortex Client login interface. It features a title bar with the text "Eocortex Client" and a close button. Below the title bar, there are several input fields: "Server" with a lock icon and the value "127.0.0.1", "User" with a dropdown arrow, and "Password" with a dropdown arrow. To the right of the "Password" field is a dropdown menu for "Account type" with two options: "Eocortex (default)" (checked) and "Active Directory". Below these fields is a "Save" checkbox. A large blue "Connect" button is positioned below the "Save" checkbox. At the bottom of the window, there is a link for "Online documentation" and the Eocortex logo.

A dramatic, high-contrast image of a stormy sky with bright, jagged lightning bolts striking down over a dark body of water. The lightning is the primary light source, creating a stark contrast against the dark, turbulent clouds. The water in the foreground is dark and reflects the light from the lightning, adding depth to the scene.

PROTECTING YOUR VIDEO IS A PRIORITY

WATERMARK ON VIDEO



WHAT IS IT FOR:

- Identification of the leaked video source (e.g., recaptured from a screen with a smartphone or video camera)
- The watermark text can include date and time, user name, computer name (on which Eocortex is running)
- Different watermark can be set for each channel

For example, someone posted a video on YouTube and damaged the image of your company - you can quickly determine who was the source of the leak

WHAT'S IN THE MOBILE APP?

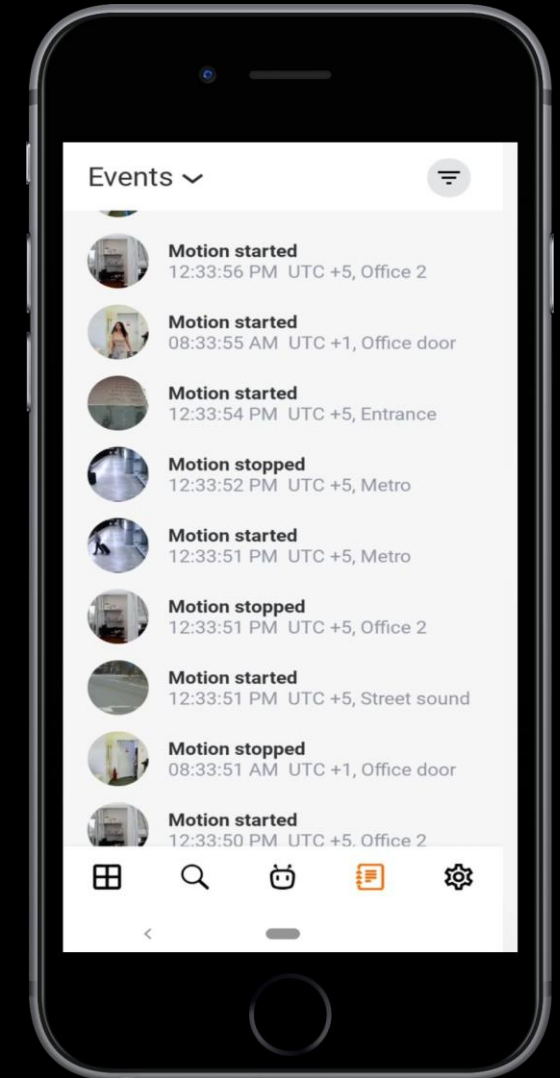
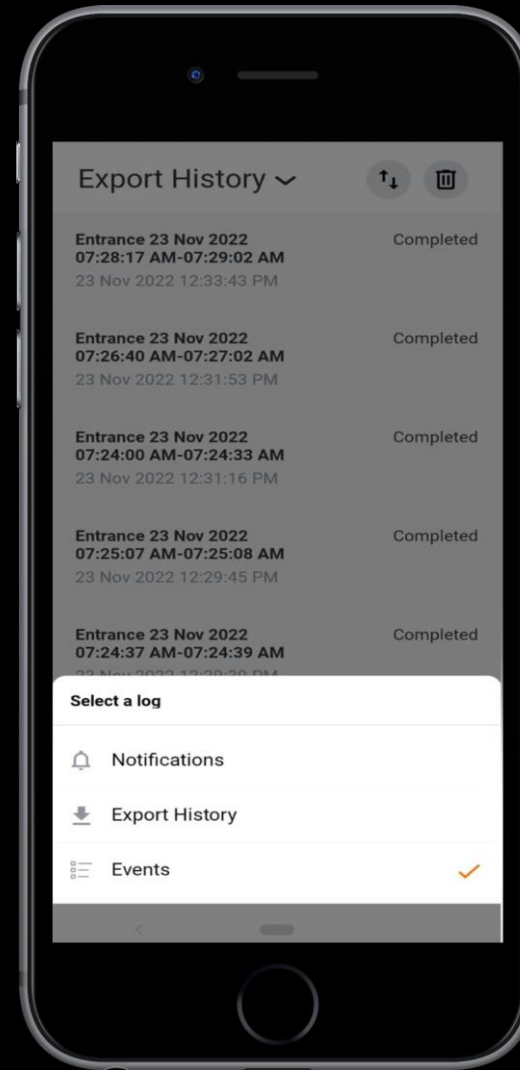
EVENTS LOG

Several logs have appeared in the notifications tab

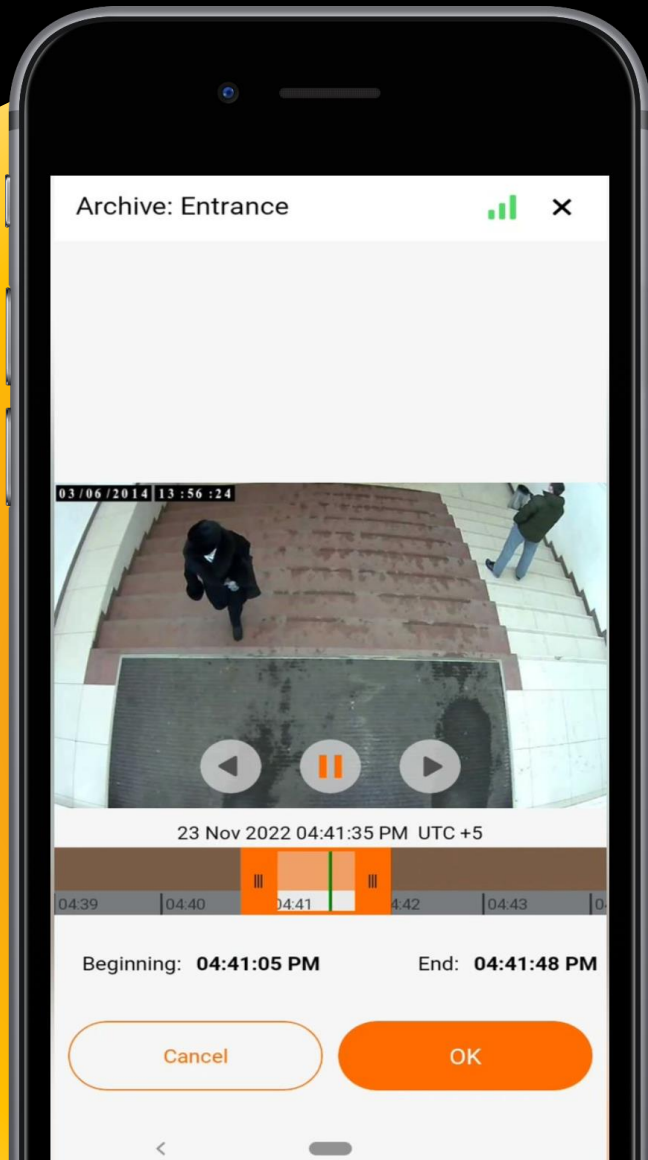
WHAT IS IT FOR:

- Quick viewing of events within the required period
- Viewing additional information on the event of interest

Managers want to have a top-level awareness and periodically check to see what's going on at the location. Whether alarms have occurred or what recent persons have been detected – **and all this from the mobile screen!**



ARCHIVE EXPORT



WHAT IS IT FOR:

- Export of an important video fragment (up to 5 minutes)
- Sending of exported video fragments to concerned persons via social networks, messengers and e-mail.

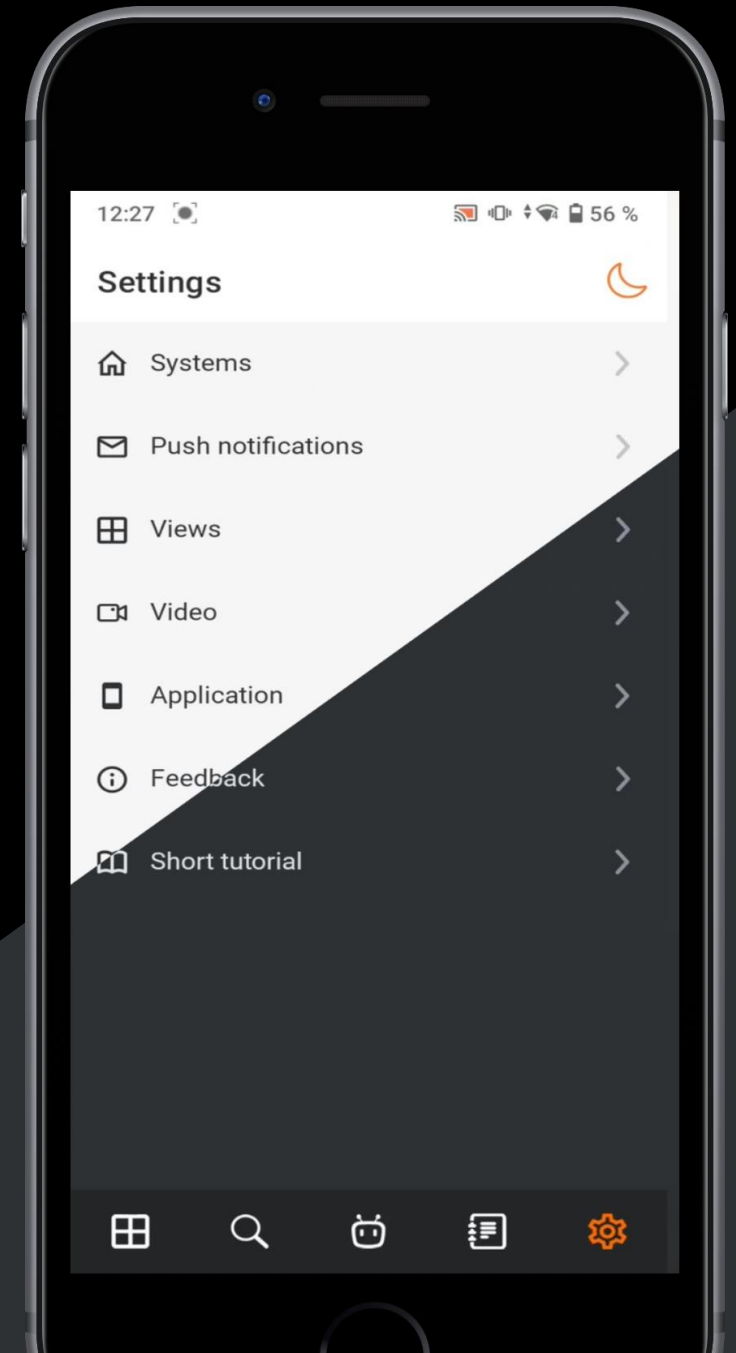
Supervisor found an event in the log (like an employee without PPE in the danger zone), jumped to the archive, exported the necessary fragment and in a few seconds sent this fragment to the team chat

LIGHT AND DARK THEMES

WHAT IS IT FOR:

- We give you the opportunity to choose the theme of the mobile application!

Also, it is possible to set up an automatic change of the theme in dependence on the time of the day





More integrations

to create a building management system

VIDEO ANALYTICS BUILT INTO CAMERAS

New camera-based video analytics is now available in Eocortex



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- 01 Objects Counting
- 02 Objects Tracking
- 03 Sabotage detector



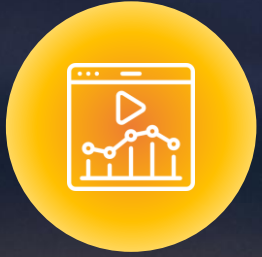
- Access control
(by card and face)



- 01 Line crossing
- 02 Area monitoring
- 03 Sound detector



- License Plate Recognition



New video analytics

a new intelligent module for your business efficiency

COUNT DIFFERENT TYPES OF OBJECTS

OBJECTS COUNTING



Traffic monitoring



Evaluation of outdoor advertising effectiveness



Counting of objects in different zones

Advantages and differences from People Counting module

- More flexible requirements for camera placement (can be easily added to existing systems)
- Counting by various categories (people, animals, vehicles by type)
- Can be used on the same camera with other intelligent modules, such as License Plate Recognition and others

OBJECTS COUNTING CAPABILITIES



Counting in zones and when crossing the line (number of zones and lines is not limited)



Counting people, animals, vehicles (cars, trucks, etc.)

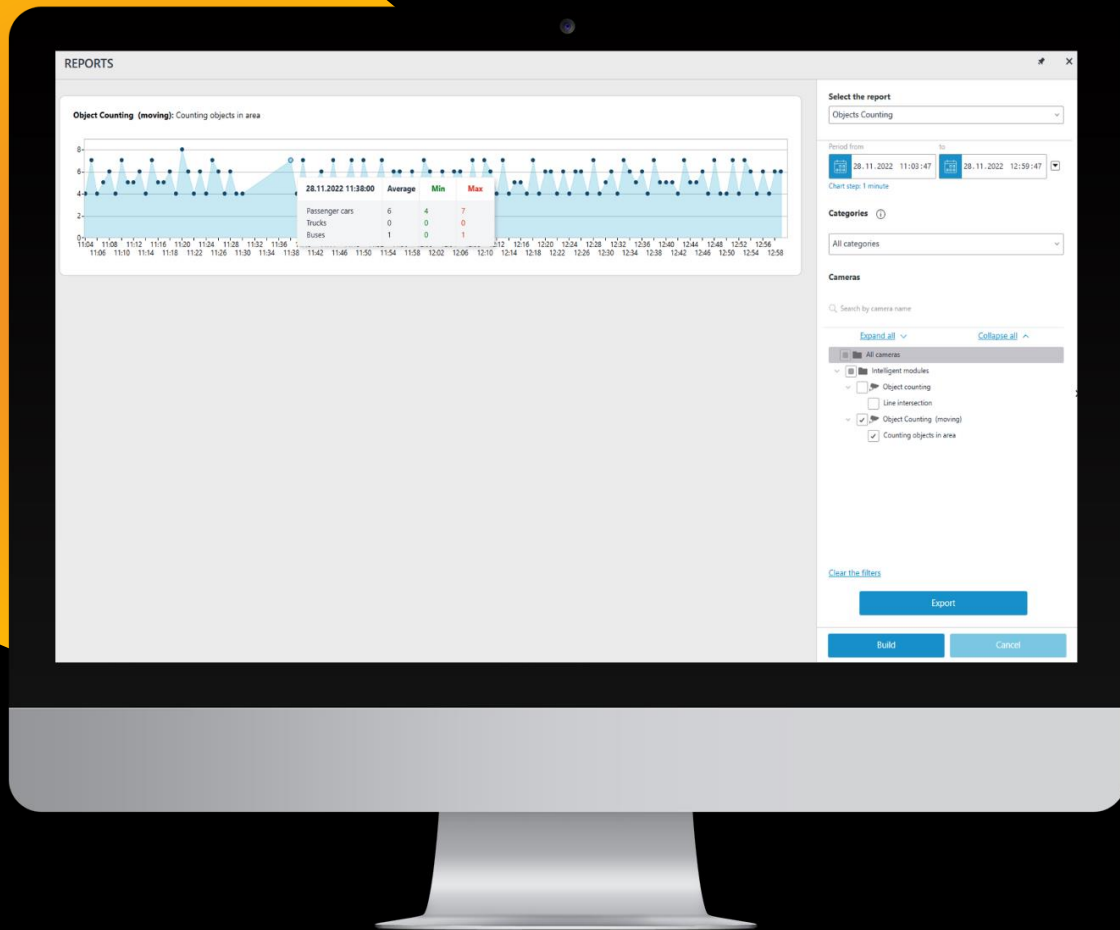


View the results with the ability to export manually and automatically

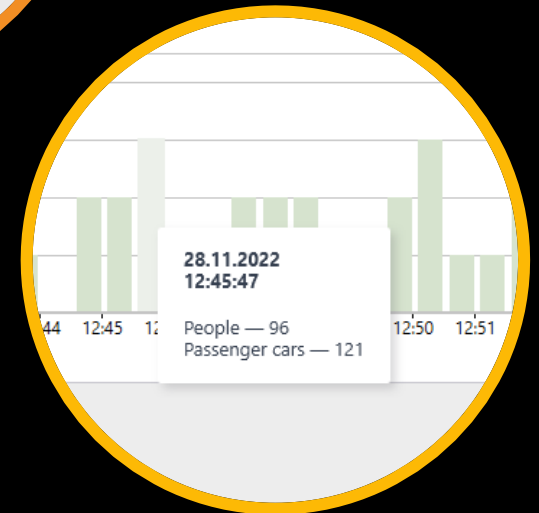


Set up various scenarios.
For example, count vehicles at crossroads to manage traffic lights

REPORTS AND STATISTICS



Report by zones - the number of objects inside the zone



Line crossing report - how many objects crossed the line

EOCORTEX 4.0. WHAT ELSE?

Several analytics modules on one camera

H.264 in Web Client

Modbus protocol support

4.0

Conversion to .NET 6 framework

Playing audio on camera speaker

Web client adaptation for mobile devices

SPECIAL OFFERS FOR ALL THE PARTICIPANTS



- 1** Free consulting and project calculation
- 2** Fully functional licenses with analytics for 1 month
- 3** **Trade-in with 50% of licenses free of charge**
Replacement of your software with Eocortex at a discount

QUESTIONNAIRE



Please fill in the form



WE ARE IN TOUCH:



Partner relations
managers

- Promo purchase
- Cooperation conditions
- Project estimate

sales@eocortex.com



Product managers

- Product feedback
- Comments regarding new features

ux@eocortex.com



Tech support

- In case you run into problems setting up Eocortex

support@eocortex.com