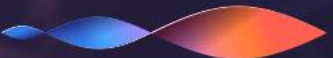


Eocortex

2026 looking into
the future

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A NEW level
of large-scale system
management



System management:

- Changes of the camera tree
- Monitoring of server and camera status via the mobile application
- API extension for automated system configuration

System update:

- Automated PostgreSQL upgrade to version 16
- Automatic Eocortex client update upon connection to a Linux server
- Scripts and instructions for updating Linux servers

Changes of the camera tree

by
25%

Configurator memory
consumption optimized

Improved performance for camera
group operations via new filters,
group selection using hotkeys, and
other optimizations

x6

faster

Tree element display
optimization

Automation scenarios via
tag API and custom fields



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Example use case

System setup: 1,000 cameras distributed across three servers. A fourth server has been added to reduce load. 150 cameras need to be migrated from Server 1 to Server 4.

1000 cameras in 3 clicks

1 154

actions
were
previously
required

3

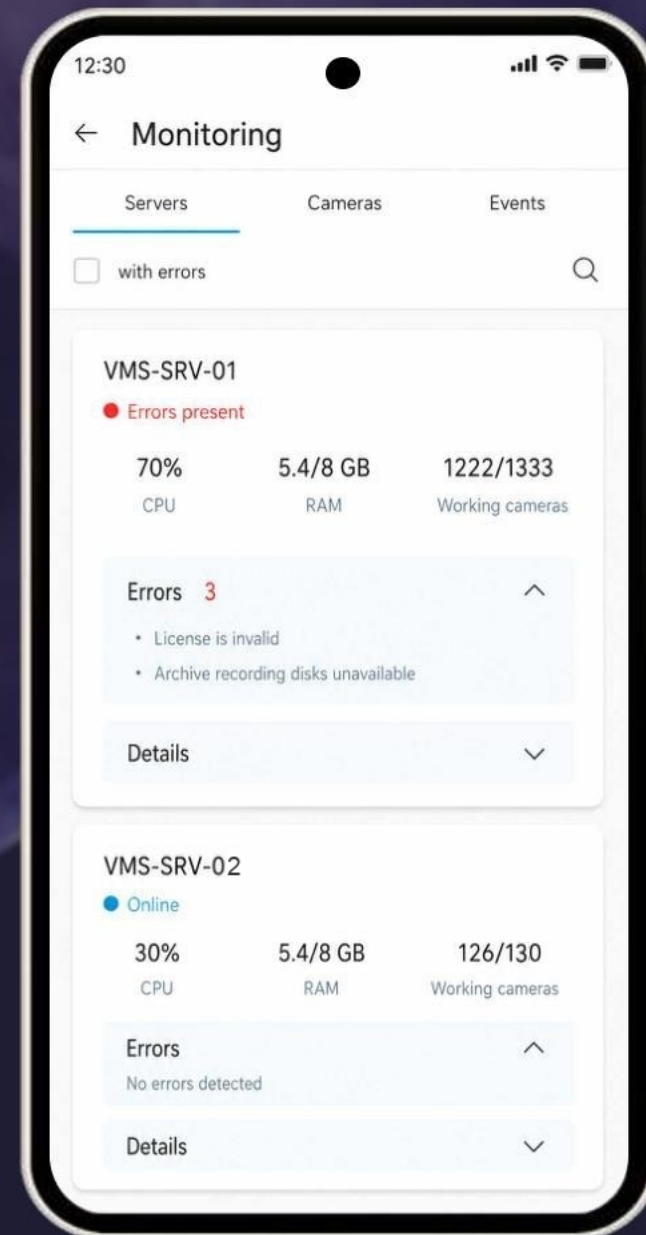
Reduced to
3 actions

Mobile-based system monitoring

System reliability and confidence, quite literally in your hands.

System health monitoring

Displays the operational status of servers and cameras from a mobile device, at any time, from any location worldwide.



Infrastructure support and upgrading

Upgrade to
PostgreSQL 16

Automatic client
update upon
connection to a Linux
server

API extension for
configuration

Scripts and instructions
for updating Linux-
based servers

Additionally,

10+

specific enhancements
and bug fixes

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Mobile and web clients

efficient and streamlined
management



Mobile and web client deployment scenarios

When

- Temporary access for external users: auditors, contractors, partners
- Irregular access
- No need for real-time alarm reception

Why

- Operational monitoring of the current situation
- Short-term access for incident review

Benefits

- No installation or updates required
- Web client works on any OS (macOS, Linux, Windows)



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New web client capabilities

Up to
64 cameras when
working with
views

Support for views with up to 64 cells on a single screen – the operator can monitor the entire facility without switching between views, ensuring no incidents are missed

New
PTZ controls for
multiview and
auto-switching

The operator no longer needs to expand a camera to full screen, minimizing the risk of missing incidents on other camera feeds



H.265 and HLS support

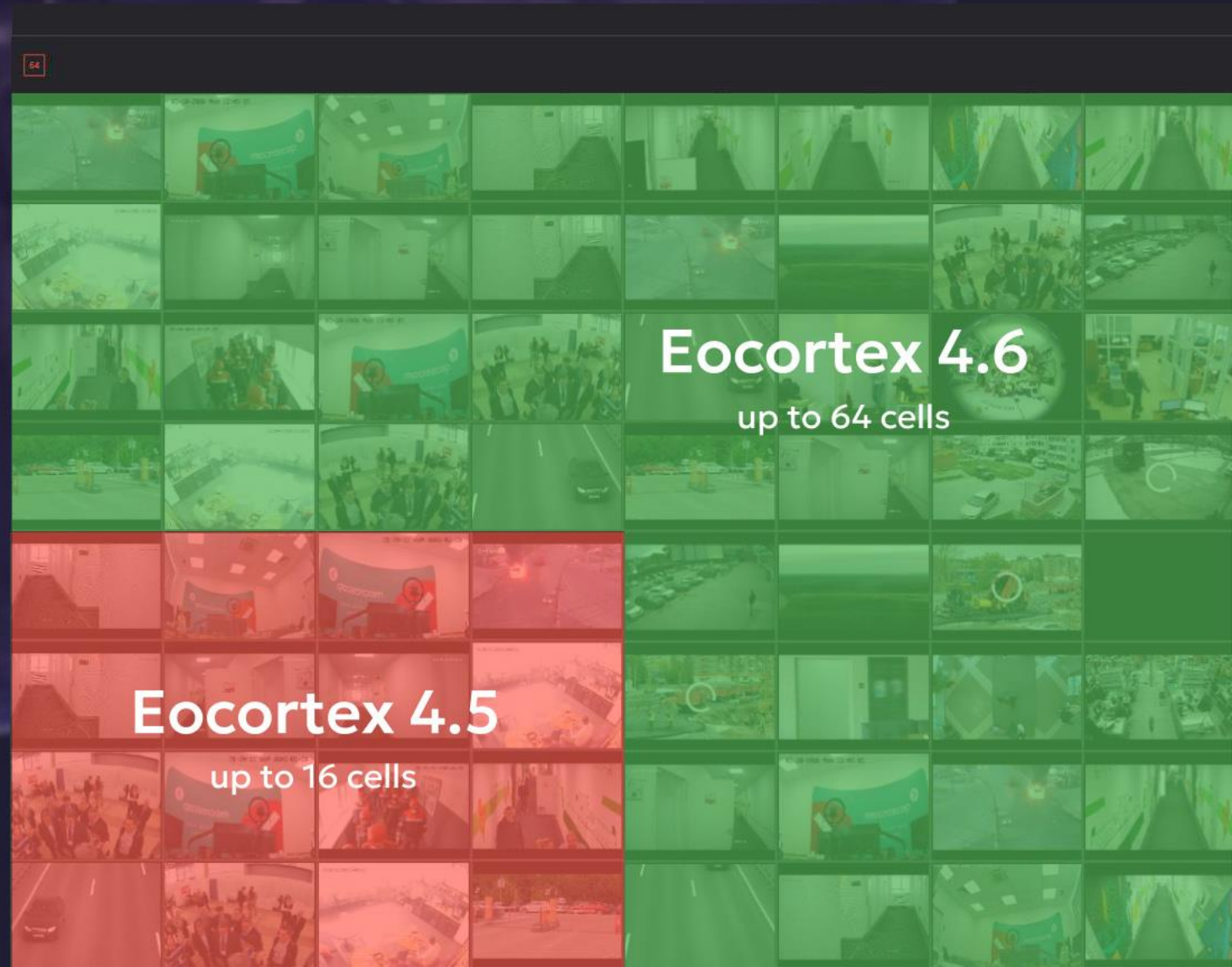
Enhanced video playback fluidity and
optimized server resource utilization

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Up to

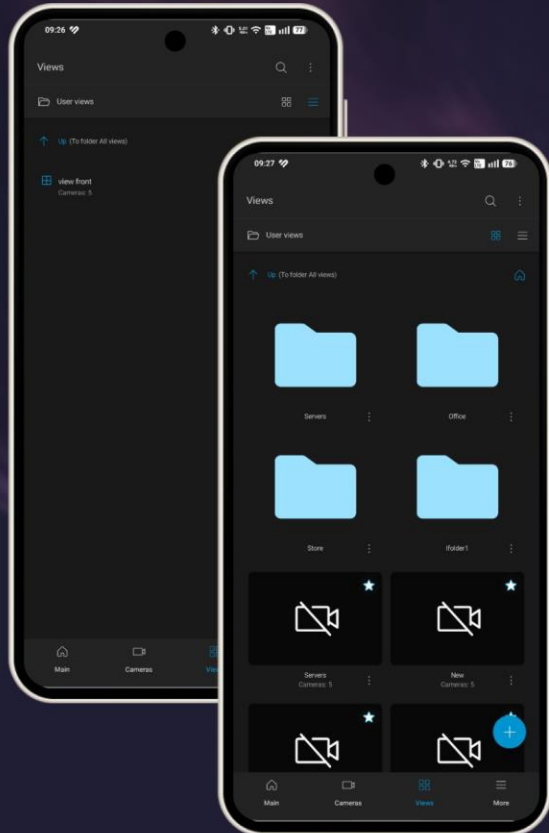
64

cameras when
working with
views



Mobile application changes:

Revised view organization model



Watermarking capability

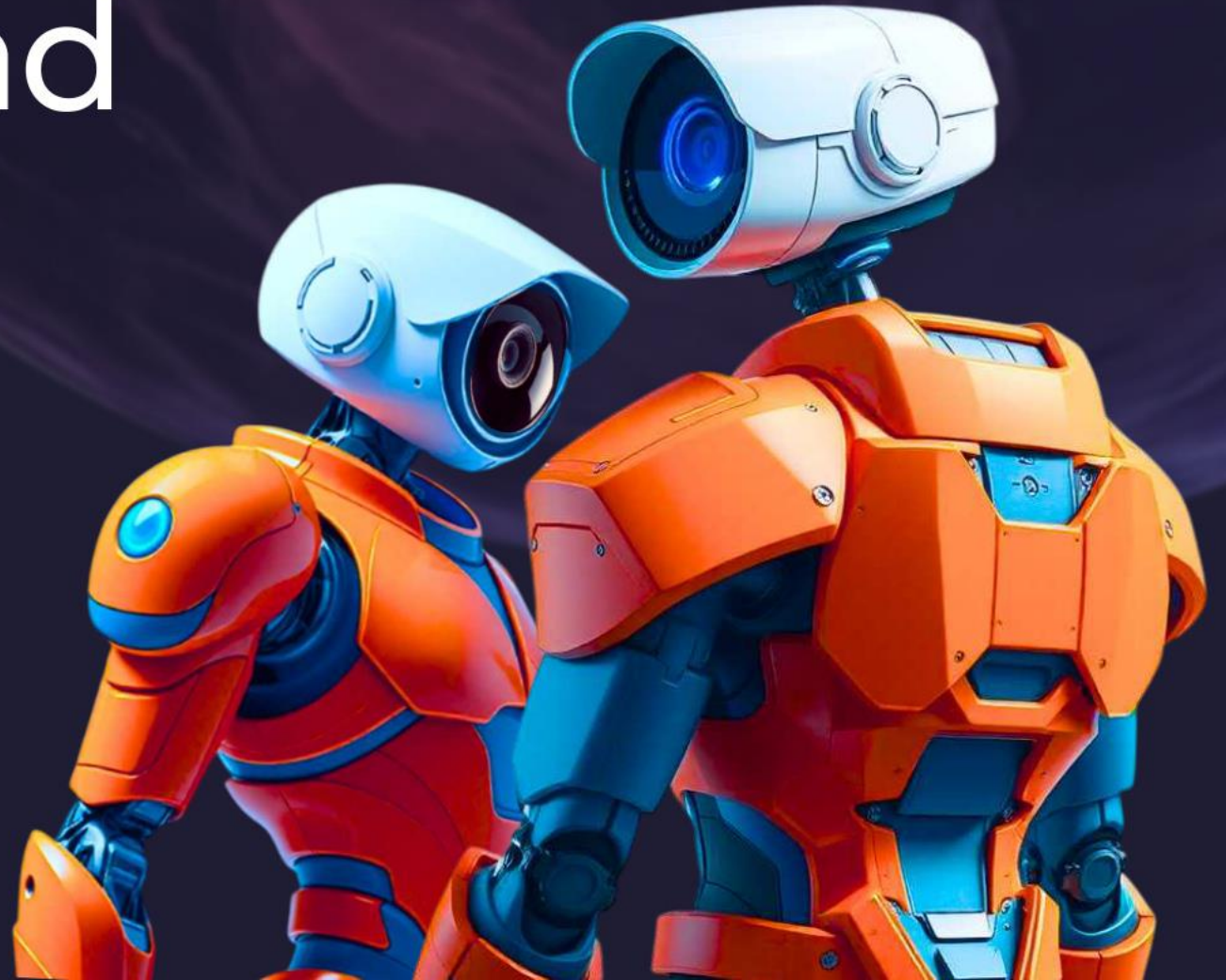


Landscape orientation support



Eocortex and external systems

reaching new levels of
system integration and
scalability



New integration capabilities with external systems

Messengers

- Bounding box rendering on notification snapshots sent via messaging apps

Support for new camera models.

- Milesight AI cameras



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Performance

Optimized client and
server-side operations

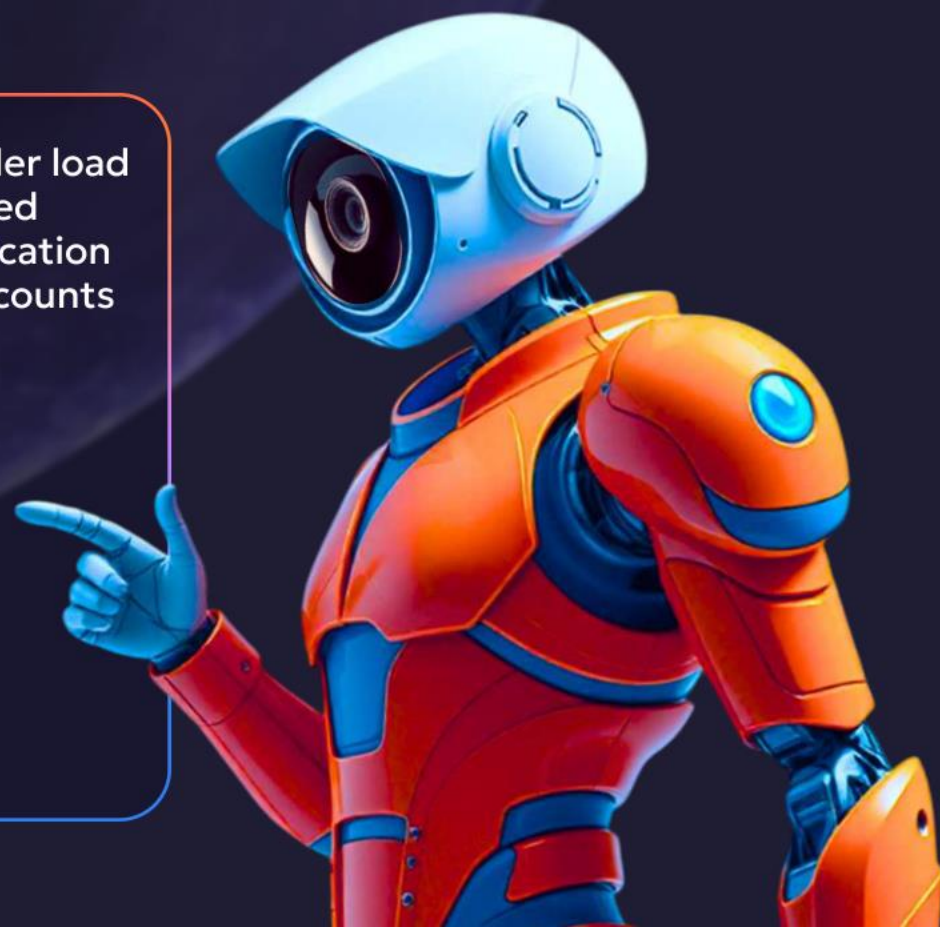


Performance improvements across both client and server components

Linux client 4.6 operates more smoothly due to more efficient GPU utilization for rendering both video and the application interface

The updated HTTP request processing engine delivers a 40–500% performance increase (depending on the scenario). This optimizes use cases where a large number of client applications connect to a single server

Domain controller load has been reduced during authentication with domain accounts



eocortex  4.6

New video analytics features



License plate recognition module

Added support for Chinese
license plate recognition

Recognition accuracy improved

- + for truck semi-trailers
- + in challenging conditions, including low-light environments (nighttime, tunnels) and/or adverse weather (snow, rain)

Smoke and Fire detection

Detection zones added to the smoke and fire detector

Improved fire detection robustness against interference from:

- + yellow-orange safety vests worn by personnel
- + headlights of forklifts and trucks

Smoke detection enhanced:

- + in forested and mountainous areas
- + indoors on stationary gray surfaces

Uniform detection

- + improved recognition of unfastened safety vests
- + improved recognition of helmets with attached hearing protection (earmuffs/headsets)
- + removed the 3-color limit for monitored workwear (PPE) colors

Fall detection

- + improved detection robustness against stationary objects

Emergency vehicle detection

- + improved detection robustness of special-purpose vehicles against interference from taxi vehicles, as well as red and black cars

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Tailored solutions for your specific requirements



Custom-developed scenarios leveraging proprietary features that are not yet part of the core product line, but can be made available under separate, customized arrangements



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Custom features

✓ Video analytics

- Detection of fastened carabiners, safety harnesses, gas mask bags, and protective footwear
- Temperature monitoring of objects using thermal imaging cameras
- Counting of user-defined objects and others...

> Operator features

> Archive operations

> System administration

> Integrations

35

custom features
for implementing unique
scenarios, available upon
individual request

Eocortex 2026

Custom features

> Video analytics

✓ Operator features

- Temporary access permits for vehicle license plates
- Parking space management on floor plans
- Camera status display upon camera selection and others...

> Archive operations

> System administration

> Integrations

35

custom features
for implementing unique
scenarios, available upon
individual request

Eocortex 2026

Custom features

> Video analytics

> Operator features

✓ Archive operations

- Face movement trajectories overlaid on the site plan
- Archive export from multiple cameras as a multiview export (multi-picture)
- Archive copying from the backup server to the primary server and others...

> System administration

> Integrations

35

custom features

for implementing unique
scenarios, available upon
individual request

Eocortex 2026

Custom features

> Video analytics

> Operator features

✓ Archive operations

✓ System administration

- Group-based camera configuration
- Monitoring of NVR disk and camera health status
- Database cluster support (DBMS clustering) and others...

> Integrations

35

custom features

for implementing unique scenarios, available upon individual request

Eocortex 2026

Custom features

- > Video analytics
- > Operator features
- ✓ Archive operations
- ✓ System administration
- ✓ Integrations
 - Selection of cameras available for the Unified Data Storage (UDS) system
 - Use of a local OSM server for GIS maps
 - Embedded browser in a view cell instead of camera video feed and others...

35

custom features
for implementing unique
scenarios, available upon
individual request

EXAMPLE SCENARIO

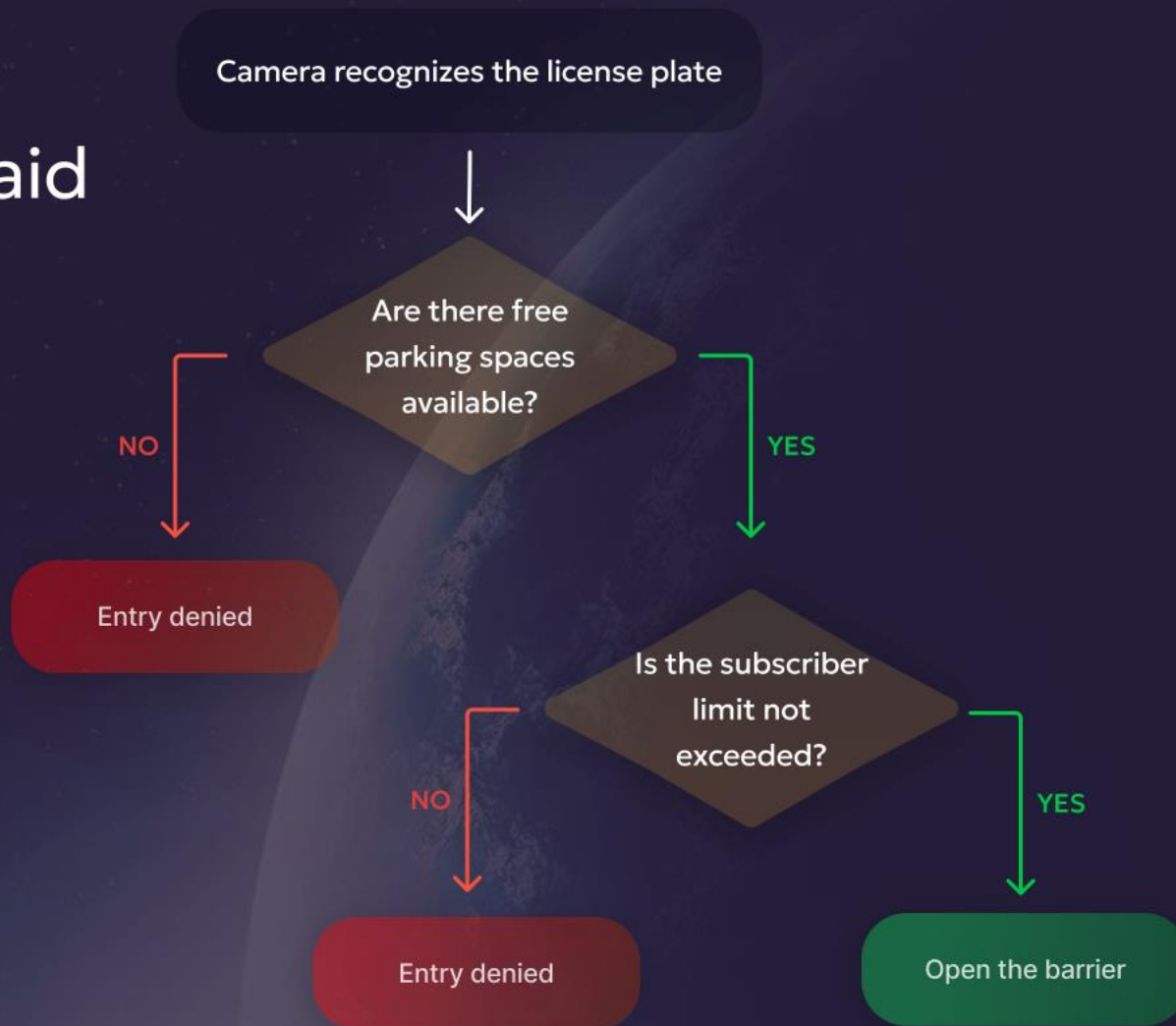
Parking slot management overlaid on site plans

Objective

Control over the use of personal parking spaces and restriction of entry when no free slots are available

Scope includes:

- Parking space management on floor plans: vehicle access control and parking spot occupancy status monitoring
- Dynamic counting of vehicles already entered per single subscriber
- When the limit is exceeded, entry is blocked and the violation is recorded





How to use it

- ✦ A demo version is available for each custom feature, allowing you to test it
- ✦ A complete list of custom functions will be sent to webinar participants who indicate their interest in the post-event survey
- ✦ Please contact your partner or client account managers, who will select custom features tailored to your specific needs and provide them for testing

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Beta version of the mobile phone usage detection module is now available for testing

Enables detection of individuals in the frame who are using a mobile phone

Phone usage is registered when a device is held in either hand

To obtain the beta version of the module, please indicate your interest in the survey for this webinar or contact your partner/client account managers.



Eocortex 2026

Version 4.7: OS support

To be added in 4.7

✓ Windows Server 2025

✓ Debian 13

✓ Ubuntu 26.04

Support to be discontinued in H1 2027

✗ Windows Server 2016 vendor support until January 2027

✗ Debian 11 vendor support until June 2026

✗ Ubuntu 20.04 vendor support ended in May 2025
✗ Ubuntu 22.04 vendor support until May 2027

If compatibility with an OS that the vendor no longer supports is required, extension of support can be discussed on a case-by-case basis

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Test it for free

Get free trial version for
14 days

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