TRASSIR CMS*

Software for centralization and monitoring of a large video surveillance system based on TRASSIR

*CMS – Central Monitoring Station

TRASSIR CMS (Central Monitoring Station)

This is a standalone software on a separate server to which servers with TRASSIR VMS are connected. The module expands the capabilities of TRASSIR VMS and allows for the centralization of the video surveillance system and monitoring of its status.

CMS features

- User-friendly web interface
- Centralized user management, LDAP
- System monitoring
- System failures prediction
- System Event Reports
- Centralized server update and management
- Direct camera connection to the CMS, no recorder required
- Solving narrow Internet channels issue (economic mode)
- Combining any number of servers

CMS is created for

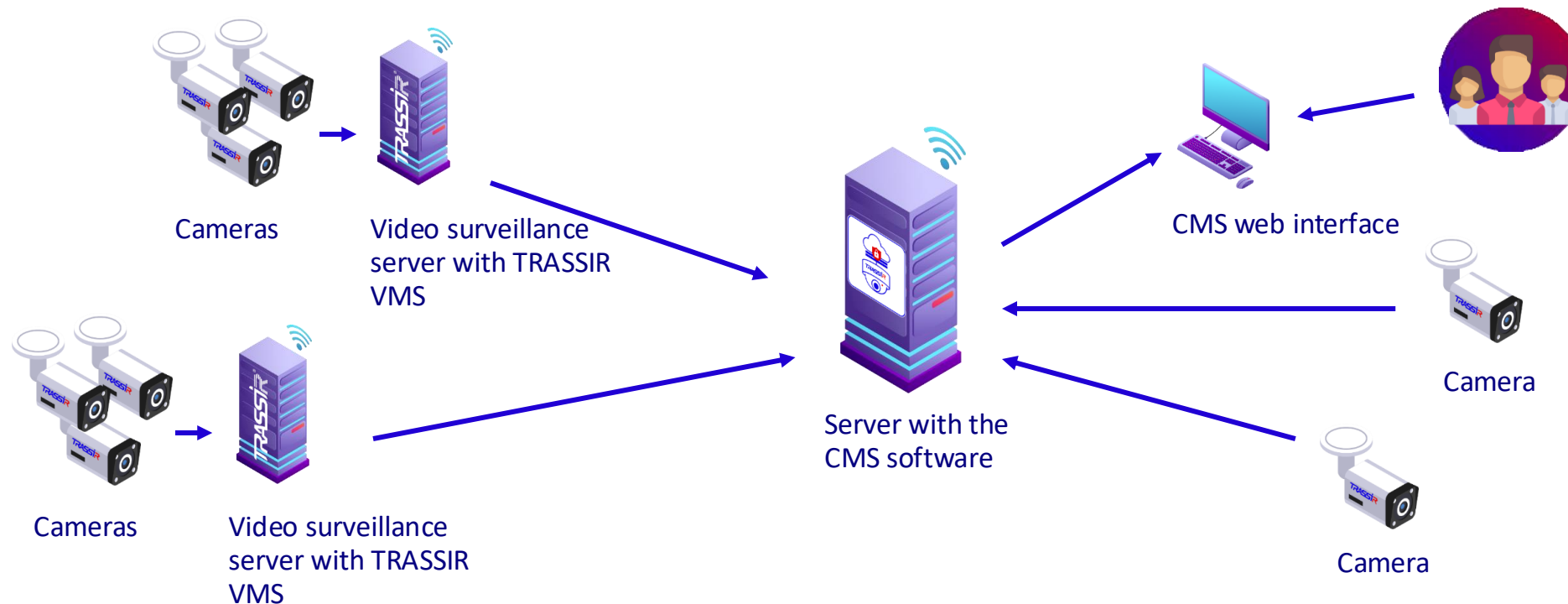More than 15 video recorders **or** Many locations **or** Required 24/7 system monitoring

How CMS works

CMS is installed on a dedicated, customer-provided server in the client's IT environment

TRASSIR Servers, recorders, and cameras of the video surveillance system are connected to this server

CMS has its own web interface and functions. It operates as an add-on to TRASSIR VMS (TRASSIR Client and Server)

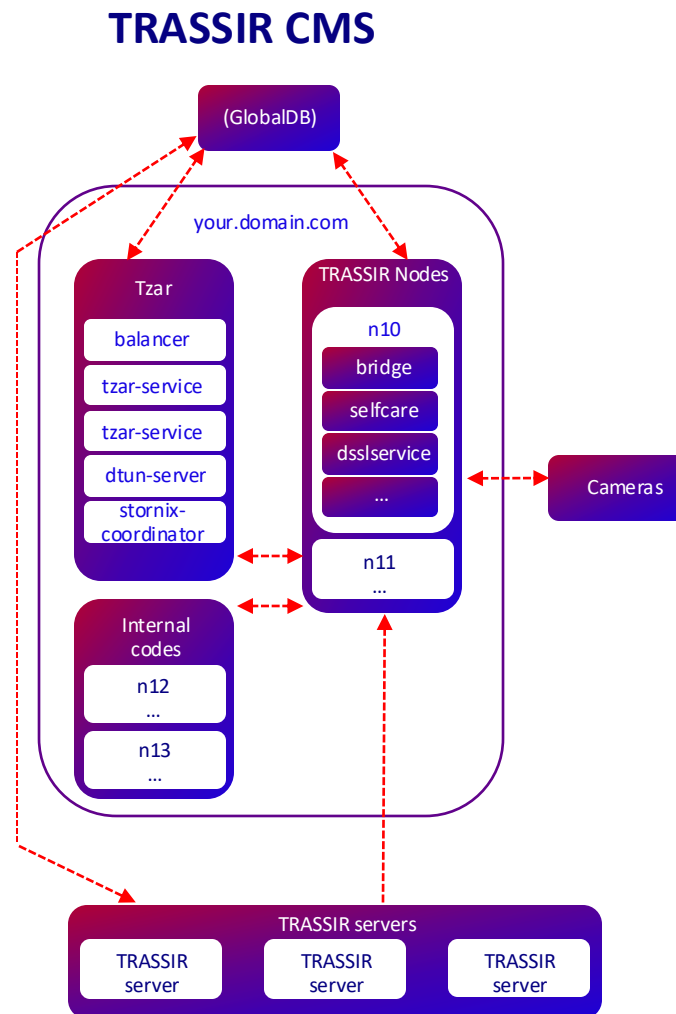Architecturally, CMS is a private cloud for video surveillance

Cameras

Video surveillance server with TRASSIR VMS

Cameras

Video surveillance server with TRASSIR VMS

Server with the CMS software

CMS web interface

Camera

Camera

Features: Consolidation of any number of servers

Thanks to the CMS, any number of cameras, servers, and users can be integrated into a single system. The CMS handles load distribution and determines connection routes to servers and cameras. Without the CMS, integrating 15+ servers would cause overload.

Case:

A major retail chain connected over 300,000 cameras and more than 20,000 servers, with over 3,000 users working daily. The system operates without failures.

TRASSIR CMS

(GlobalDB)

your.domain.com

Tzar
- balancer
- tzar-service
- tzar-service
- dtun-server
- stornix-coordinator

Internal codes
- n12 ...
- n13 ...

TRASSIR Nodes
- n10
  - bridge
  - selfcare
  - dsslservice
  - ...
- n11 ...

Cameras

TRASSIR servers
- TRASSIR server
- TRASSIR server
- TRASSIR server
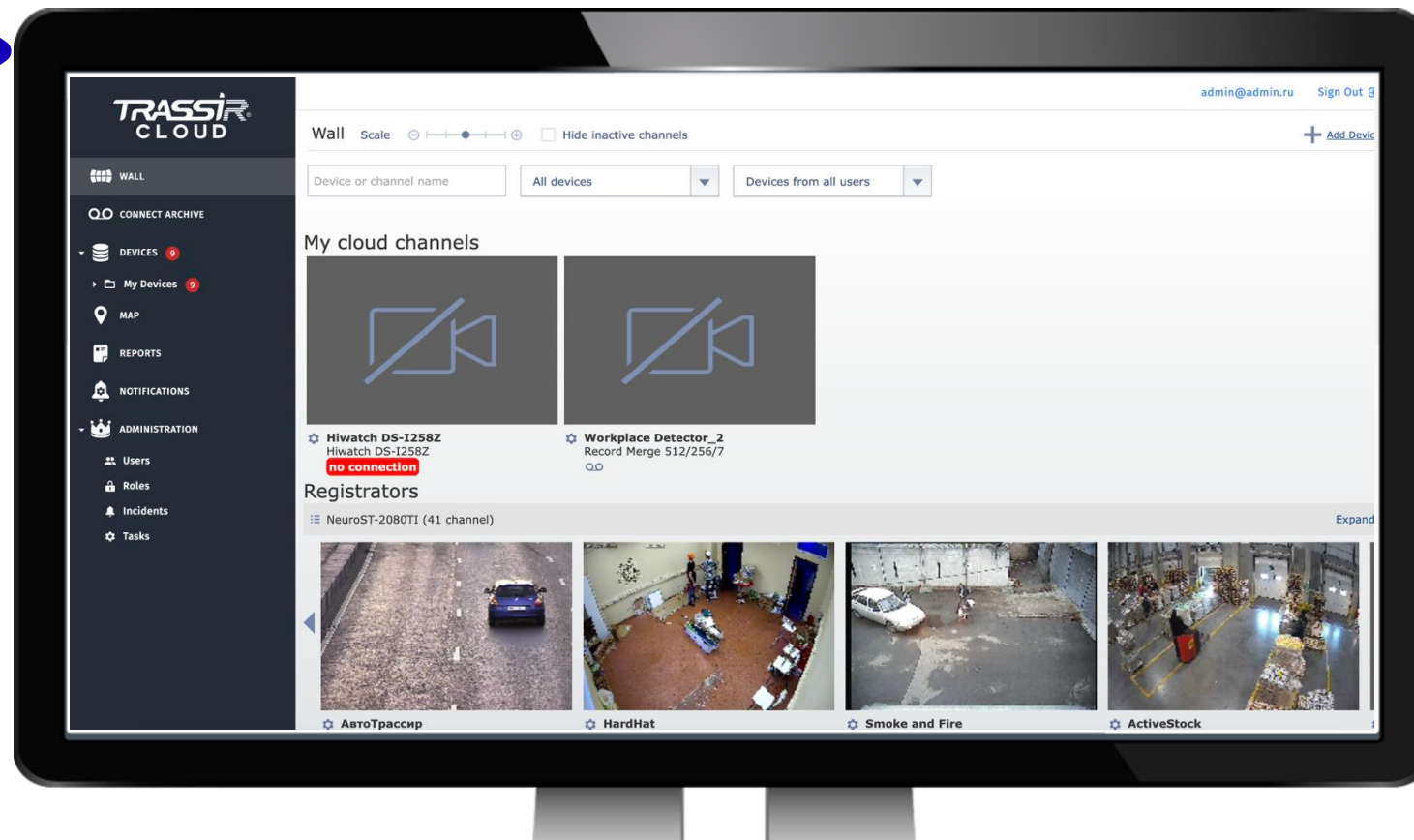
Features:
Web interface

CMS users have access to a separate, user-friendly web interface where CMS functions are implemented

The CMS interface is designed for video surveillance administrators for the purposes of monitoring, user management, and server management

The CMS interface is also convenient for company executives and analysts to stay informed—it allows for quick camera viewing and can be accessed from any computer, anywhere in the world

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Features:
Centralized user management, LDAP

In CMS, it is convenient to create users and manage their permissions. Roles and groups with sets of permissions can be created, into which users can be assigned. Permissions can be divided both by sets of actions and by devices

In CMS, you can integrate your corporate users through LDAP

This allows users to access TRASSIR video surveillance programs using their familiar corporate logins and passwords

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Roles / Create role

Name: Admin 1

Description: Administrator with full access

Assign to user

Folder: Root folder

Interface restrictions:

- ☑ Manage templates
- ☑ Share templates
- ☑ Settings button
- ☑ View dialog
- ☑ Client shutdown button
- ☑ Shutdown button

PTZ priority:
16 (High priority)

Max archive playing speed:
1x

	Objects	Incidents	Schedule

Filter...	Connection	Health	View	Incidents	Archive	Sound	PTZ	Modify	Bookmarks	Export	Setup	Admin
📁 My devices	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
▶ 📁 Headquarter	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
▶ 📁 South branch	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
▶ 📁 North branch	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔

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Features:
The monitoring of the system status

Detailed information about the status of the entire video surveillance system's equipment is available. The CMS collects data on more than 20 indicators. It monitors the status of hard drives, CPU condition, camera errors, and much more. This feature ensures that the system is operating correctly or helps quickly identify a malfunction to prevent prolonged archive loss.

Monitoring Center   Collapse

2 My devices

My servers list   🔍 Device search   ⊙ Analytics ⌄   **Servers** Cameras   ⚙ Table settings

Server name ▲	Connection	Channels	HDD	Uptime	CPU, temperature	CPU, load	RAM, load	Count disks to write	SMART HDDs indicators
DEMOSTAND-1 ⋯	● OK	● 50/50	● OK	10:41:19	● 61°C / 69°C ...				View
DEMOSTAND-2 ⋯	● OK	● 49/50	● OK	10:41:01	● 61°C / 68°C ...	The CPU utilization percentage. Displays the minimum, maximum, and median values for the period specified in the TRASSIR settings.			View
MOSTAND-3 ⋯	● OK	● 50/50	● OK	10:41:15	● 62°C / 69°C ...				View
MOSTAND-4-PSIM ⋯	● OK	● 50/50	● OK	10:37:36	● 62°C / 69°C ...	● 61% / 69% /...	● 26% / 34% /...	1	View

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Features:
System Failure Prediction - Preventive Monitoring

If the data from the System Status Monitoring approach critical thresholds, the CMS will notify you via email and in the interface. This feature allows you to become aware of issues before the equipment fails. This means maintenance can be performed in advance.

Case:

In the data center of a large transportation company, video surveillance servers were constantly failing. After implementing preventive monitoring, it was discovered that the servers' CPUs were overheating daily due to a malfunction in the room's cooling system.

< **Preventive monitoring settings. Notifications**

Notifications / Preventive monitoring settings. Notifications

CPU parameters	
min. Temperature, °C	40
max. Temperature, °C	80
median Temperature, °C	65
min. Load, %	40
max. Load, %	80
median Load, %	65

GPU parameters	
min. Temperature, °C	40
max. Temperature, °C	80
median Temperature, °C	65
min. Load, %	40
max. Load, %	80
median Load, %	65

RAM parameters

SMART Disks Indicators

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Features:
Reports

The CMS generates reports based on the entire system's data. There are built-in reports available:
- Device Status - to view what has historically happened with the equipment.
- User Actions - for incident investigation and reviewing user activities.
- User List and Permissions - to verify the correctness of the permission system.
- As part of additional development, any reports can be created upon client request.

‹ **Users report**

Reports / Users report

| Report name | Users report |

Settings ∧

Automatic report sending — ⬤ Disable

| Automatic Generation | daily ⌄ | 10:00 ⌄ |

Notification E-mail Lists: [monitor ×] ⌄ ⚙

Save Generate and save Cancel

‹ **Incidents report**

Reports / Incidents report

| Report name | Incidents report |

Settings ∧

Automatic report sending — ⬤ Disable

| Automatic Generation | daily ⌄ | 10:00 ⌄ |

Notification E-mail Lists: [monitor ×] ⌄ ⚙

Parameters

Devices [All selected]

Users [All selected]

Incident Type [Sound ×] [Connection ×] [Health ×] [7 more] ⌄

Incident Status [New ×] [Read ×] [Confirmed ×] [1 more] ⌄

Save Generate and save Cancel

‹ **Devises Status report**

Reports / Devises Status report

| Report name | Devises Status report |

Settings ∧

Automatic report sending — ⬤ Disable

| Automatic Generation | daily ⌄ | 10:00 ⌄ |

Notification E-mail Lists: [monitor ×] ⌄ ⚙

Parameters

Devices and groups [All selected]

Indicators [Multiple selected]

Maximum rows count: [All ⌄]

Save Generate and save Cancel

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Features:
Centralized server updates and configuration via scripts, backup of settings

Install updates and scripts from the CMS simultaneously on all or selected servers

This saves a significant amount of time for specialists administering a large-scale system

Tasks / Create software update task *

Task name:

Update file link:

Select devices:

Registrator type:

All

☑ Install script on all devices automatically

Filter...

Selected 4 / 4

Name ▲	Version
▸ 🗀 ☑ My devices	

The CMS can save server settings and video wall templates.
In the event of a failure, you can instantly restore all settings.

Features:
Connecting cameras in the CMS and duplicating the archive

The CMS also functions as an independent server for video archive recording and can be used for direct camera connection or archive duplication within the CMS

## Connect cameras directly to the CMS*

This will allow, for example, the rapid deployment and removal of new locations where video surveillance is required, as there will be no need to purchase and configure a server, only a camera and internet connection.

Direct connection

Server with
TRASSIR CMS
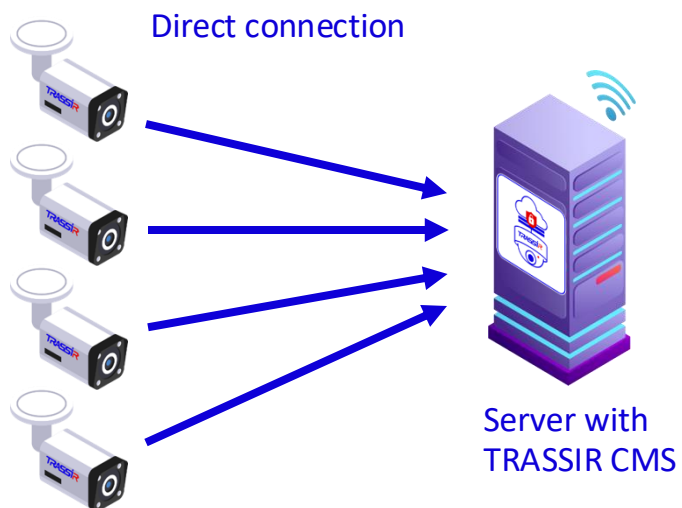
* Direct connection is available for certain models. Please check with your manager.

Duplicate the archive in CMS

This will ensure 100% preservation of the archive from the most important cameras in the event of a failure or theft of the video surveillance server. The entire archive will remain in the CMS

Archive duplication

Servers with
TRASSIR VMS

Server with
TRASSIR CMS

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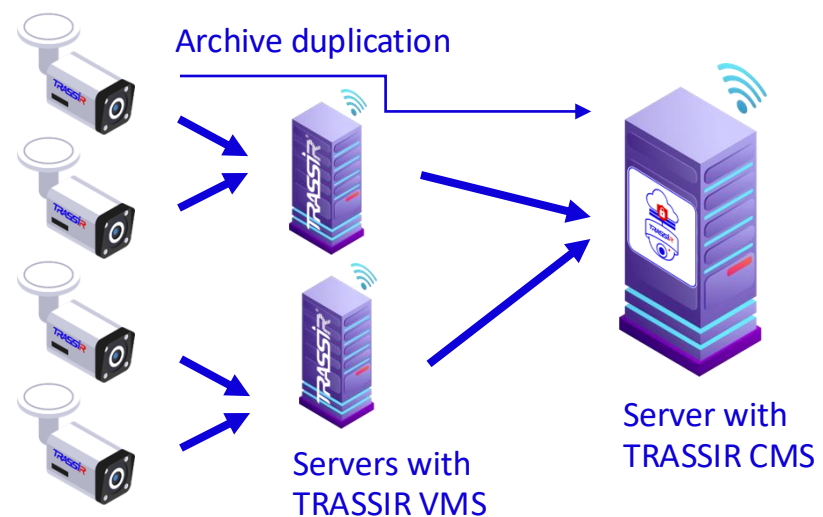
Features:
Narrow channels issues solving

The Cloud Connect functionality connects the user to the camera not through a local server, but via the CMS, which routes the load and internet traffic

This allows:
- to disable internet traffic and reduce the load on servers that are not in use
- multiple users to simultaneously view the same channel without increasing the load on the server and channel. All the load is managed through the CMS

Without the CMS, connecting multiple users to a single camera –

would require too much internet traffic, causing the camera's image to lag or stop altogether

Case:

A major online store implemented the ability to track logistics across the warehouses of several divisions simultaneously, which enhanced quality control and security measures

Server with TRASSIR VMS

Server with TRASSIR CMS
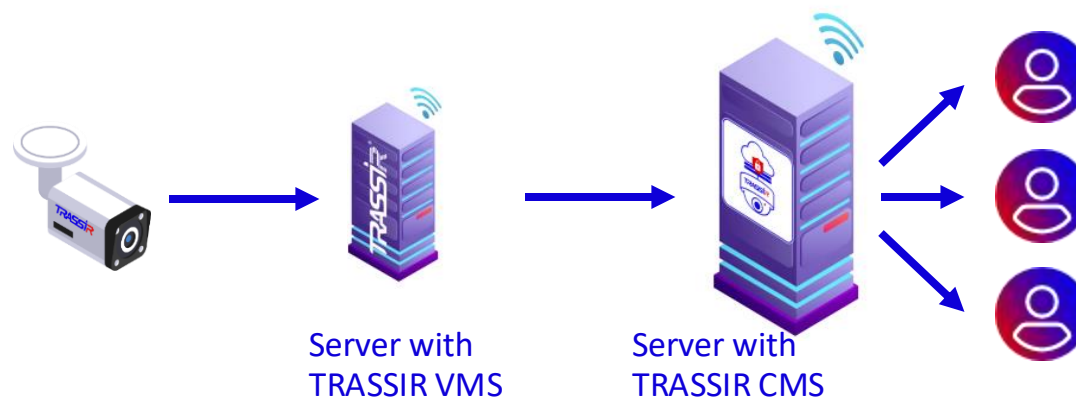
Installation and licensing of CMS

Installation

- The CMS software is installed on a separate server within your IT infrastructure.
- You would need to use your own server for TRASSIR CMS software.* For this, our managers will help determine the necessary technical specifications.
- To start working with the CMS you will need to connect servers with TRASSIR VMS to the server where the TRASSIR CMS software is installed.

Licensing

- To connect server with TRASSIR VMS to TRASSIR CMS, AnyIP Pro INT or EnterpriseIP INT licenses are required for each camera on this server. Therefore, to use the CMS, you need to fully switch to AnyIP Pro or EnterpriseIP licenses.**
- If you connect a camera directly to the CMS without using a server with TRASSIR VMS, a TRASSIR CMS Channel license will be required for that camera

* The CMS commissioning works to be paid separately

** If you already have TRASSIR licenses for connecting cameras, they can be upgraded using AnyIP PRO Upgrade INT and EnterpriseIP Upgrade INT.
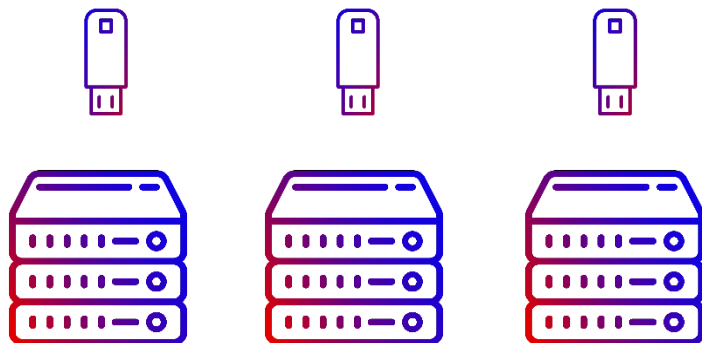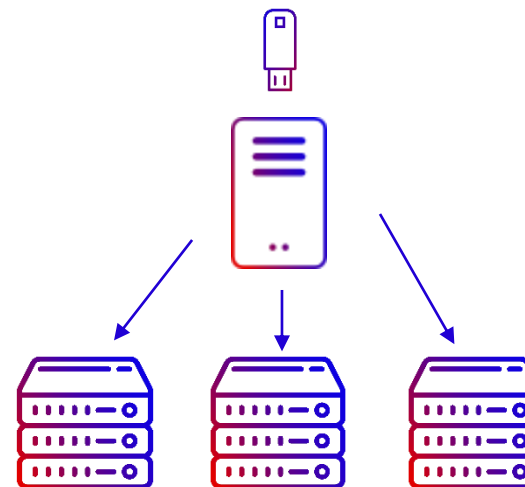
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Features:
TRASSIR License Control Solution (LICENSE MANAGER)

This module is a separate software on a separate server, to which servers with TRASSIR VMS are connected. The module allows you to redistribute TRASSIR licenses between servers.*

Without TRASSIR License Manager

System managed by TRASSIR License Manager

* Without this module, licenses are tied to the protection license key and cannot be distributed between license keys without contacting TRASSIR. The protection license key can be in the form of a USB flash drive, which can be moved to another server (but licenses cannot be redistributed between protection keys), or as a "digital key," which is tied to a specific server and cannot be moved

** Supported only on Self-assembled Windows and Debian Servers with TRASSIR VMS

TRASSIR®

United Kingdom
Latvia
Estonia
Belarus
Germany
Kazakhstan
France
Moldova
Georgia
Kyrgyzstan
Spain
Romania
USA
Armenia
Tajikistan
Turkey
Azerbaijan
Morocco
Lebanon
Israel
China
Algeria
Kuwait
UAE
Mexico
Egypt
Qatar
Taiwan
Oman
India
Saudi Arabia
Thailand
Nigeria
Vietnam
Colombia
Ecuador
Brazil
Mauritius
Paraguay
Republic of
South Africa

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