# Macula brochure 2025

Lax Teknologi Indonesia

# macula®

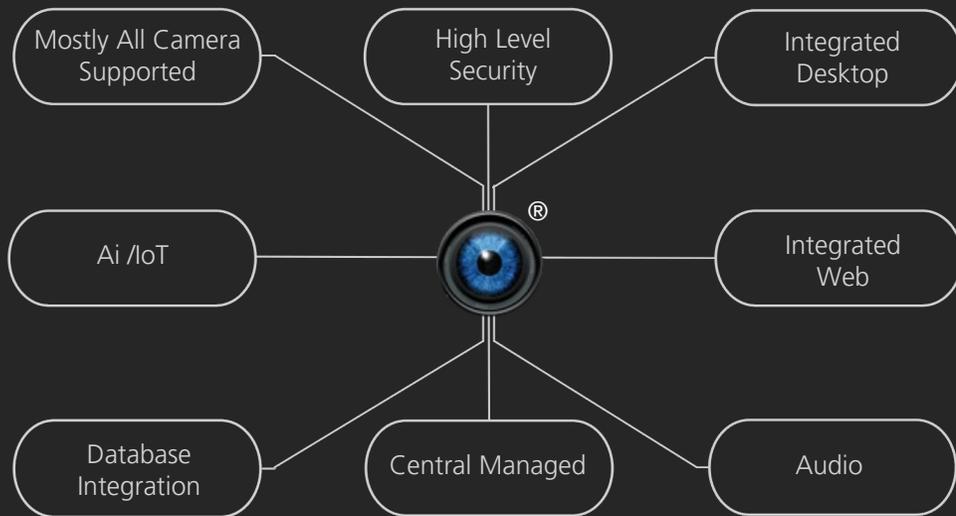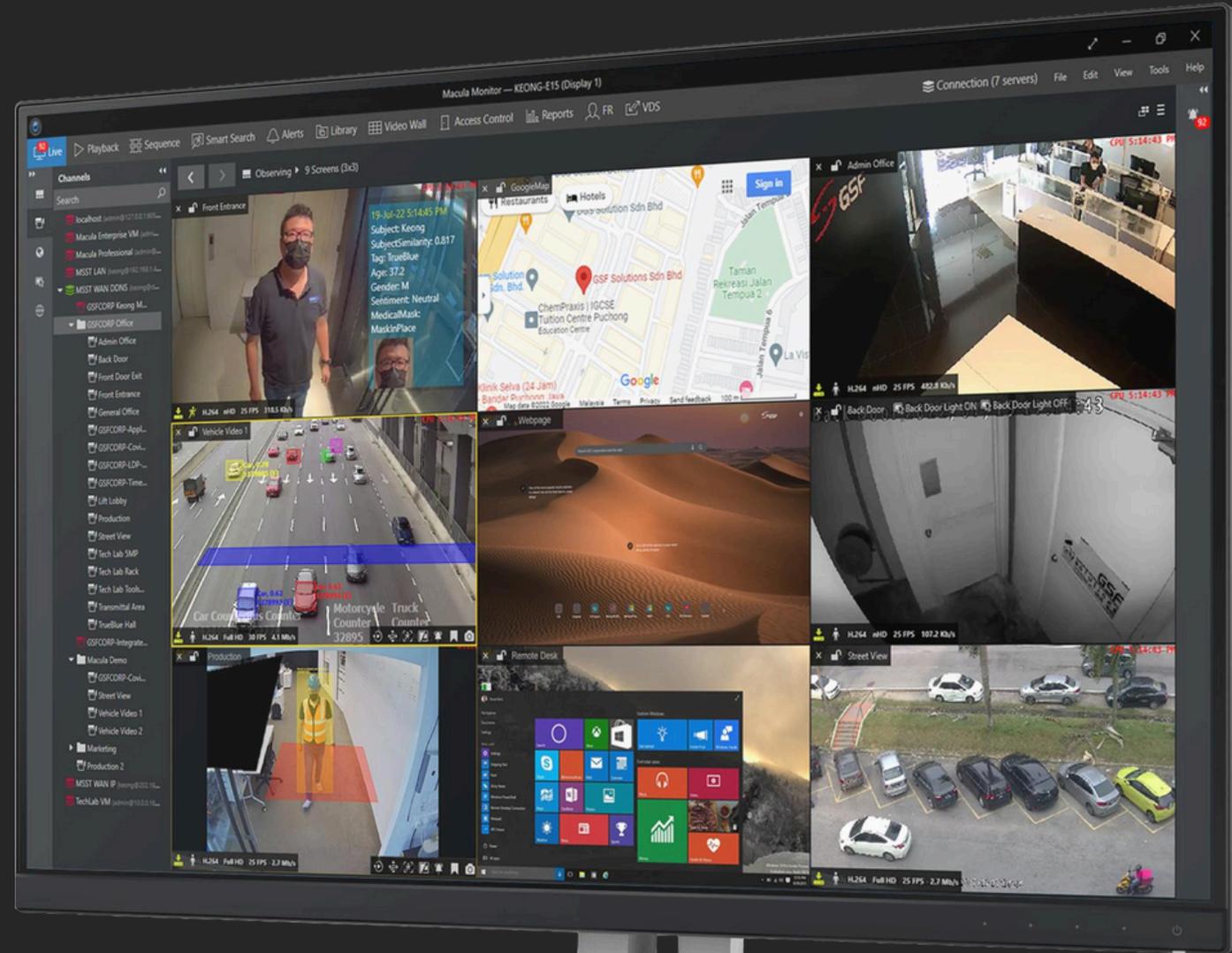## Video Management Software, Comes with Service Support

Our decades of experience in achieving best quality of HDCCTV system design and first-class service support, all combined into this piece of engineering marvel.
For the next ten years, macula was created with data integrations in mind, toward Ai & IoT trend.

# Do more than a video management software - macula ®

## Video Management Software
## Comes with Service Support

macula's key integralelements is integrating all subsystem work together as one. In modern surveillance, every data is important to create evidencemeticulously.TheintegrationwithAi,IoT sensors and Database will be taken care of.

- Mostly All Camera Supported
- High Level Security
- Integrated Desktop
- Ai /IoT
- Integrated Web
- Database Integration
- Central Managed
- Audio

# Operations Effectiveness

Backed by TrueBlue Support, service and support from the people who know your system best.

**TrueBlue®** experience

## TrueBlue Care Premium

Trouble-free premium support with 3 years next-business-day onsite labor and parts replacement for ECA.

## Phone & Remote Support

All GSF products come with international phone and remote support, for help on settings or using the ECA.
*\* Working hour only. Mon-Fri. 9am-6pm (GMT+8)*

## Pay-per-request Onsite Service

Support at your location, as and when you need it, to solve specific problems and issues. Support on-site by our professional TrueBlue engineer.
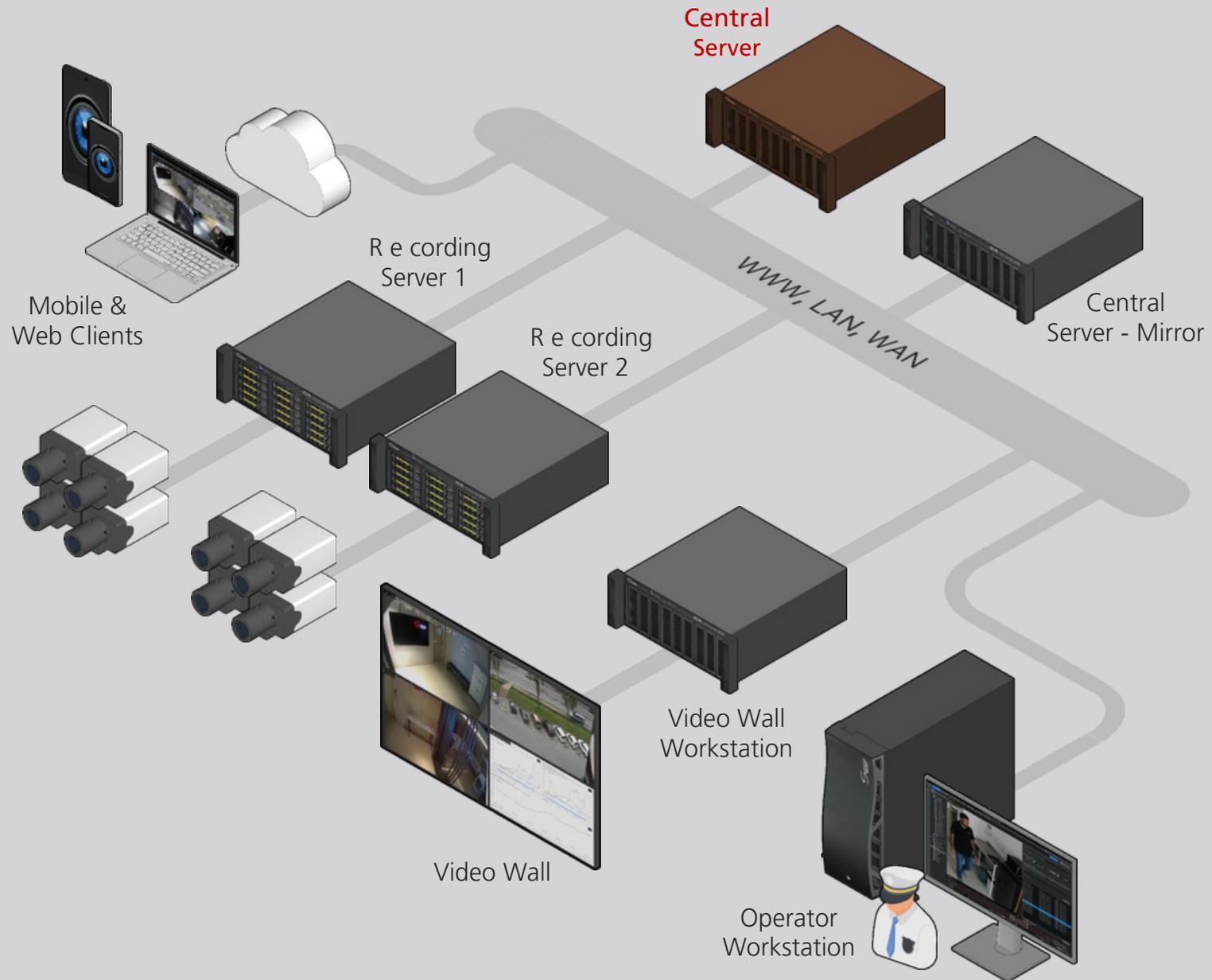
Heartbeat generation 2

# Centralized Managed Surveillance System

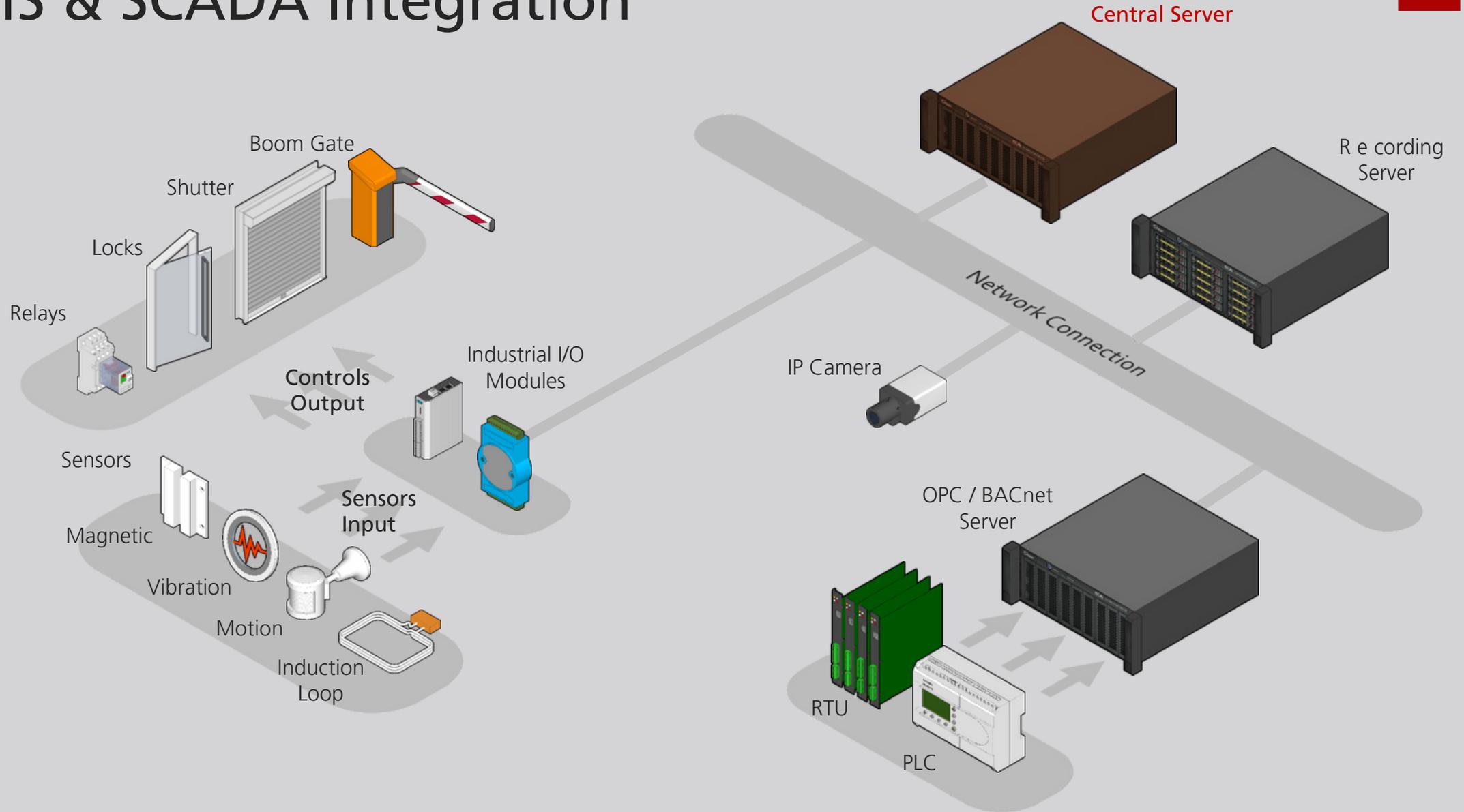## Effective and Efficient in Operation

Single login, multiple managed, make management of large-scale surveillance much more effective, and easier to maintain. For example, you required to change a user account password, you only changed once at central server, and it will automatically be synced to all servers. Thus, saving on human capital cost and expenses.

## Central server hold all:

- User accounts
- User permission
- All resources like cameras
- Settings
- Configurations
- Security Policy
- Licenses

# I/O, BMS & SCADA Integration

Central Server

R e cording Server

Network Connection

Boom Gate

Shutter

Locks

Relays

Controls Output

Industrial I/O Modules

IP Camera

Sensors

Sensors Input

Magnetic

Vibration

Motion

Induction Loop

OPC / BACnet Server

RTU

PLC

# Universal PSIM & iSMS

Support 3rd party sub-system desktop application integration and webpage interface into one seamless integrated physical security management system.



Central Server

Network Connection

Access Control Sub-System

SCADA Sub-System

CarPark Management Sub-System

Fire Alarms Sub-System

Building Management Sub-System

Perimeter Intrusion Sub-System

Keys Management Sub-System

Help Points Sub-System

Lift Control Sub-System

Visitor Management Webpage

Traffic & Toll Webpage
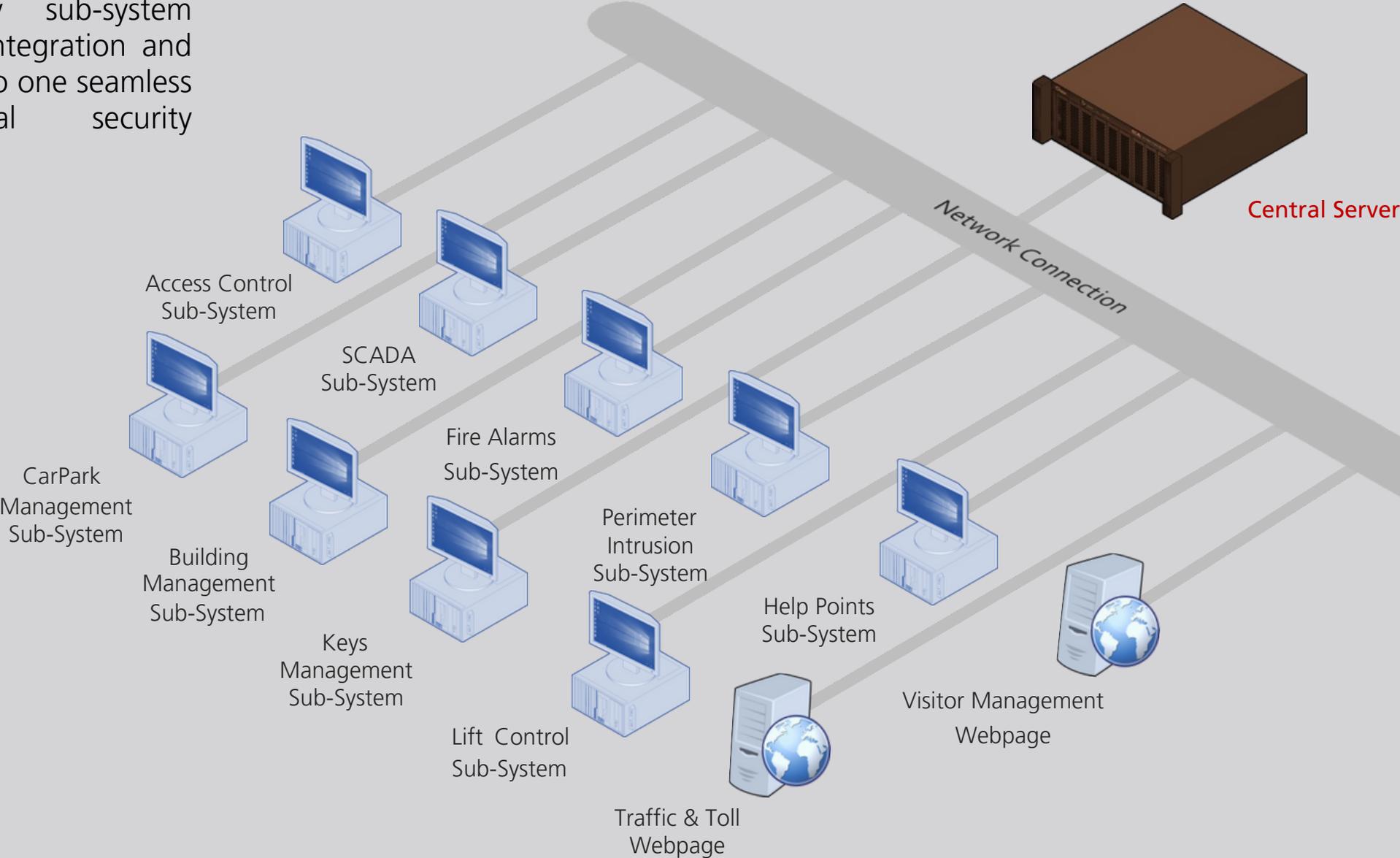
# Analytics Engine with Artificial Intelligent (Ai) Automation

Central Server

R e cording Server

**Ai Processing S e rver**

IP Camera

Network Connection (SSL)

Auto Notification & Reportto Smartphone

Operator Live Monitoring

# License Plate Recognition (LPR) System

**Detect, Recognize and Register** : For motor vehicle license plates White List / Black List registration.

**LPR Smart Search**: Search the LPR video and image by date / time / license plate number from the LPR server to locate the key evidence efficiently.

Central Server

R e cording Server

Processing Server

Network I/O Module

Network Connection (SSL)

LPR IP Camera

Boom Gate

Auto Notification& Report to Smartphone

Operator Live Monitoring

LPR Detection at YouTube

LPR Playback Search at YouTube

# Face Recognition System (FRS)

Smart Logic®FR System rely on neural networks are faster, lighter, and more accurate at the same time also good on partial faces (which includes people wearing masks) and faces at big angles. As well as offering facial expression, gender and age information. Smart Logic ® Face Recognition System (FRS) engine is based on neural networks,featuring all the benefits ofthe cutting-edge FR technologies.

[FRSbrochure>](#)



## LivenessDetectionforAnti-Spoofing

Liveness detection distinguishes live persons and non- live person such as printed photo or images from smart devices. Liveness feature is important if you are using face recognition system (FRS) for critical application like door access, or door un-locking function.
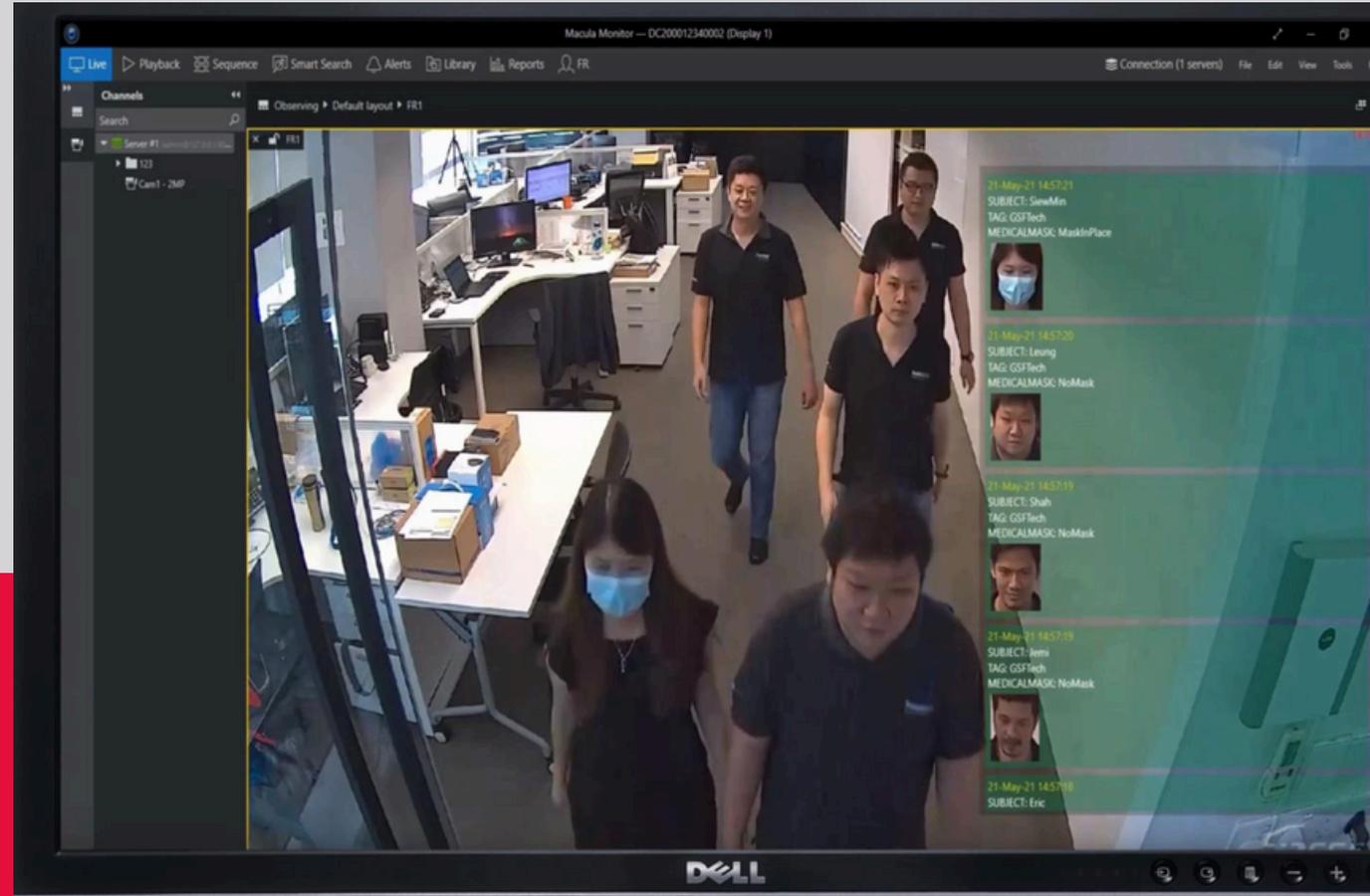
FRS in Live Monitoring

[Watch at YouTube](#)

[Watch at YouTube](#)

# Audio Integration

- 2-ways conversation recordings (IP intercom)

- 2-way communication to IP speaker or IP intercom

- Pre-recorded sound clip playback to IP Speaker according to events logic or as Public Announcement

- Intercom Call event Tagging or alert

- Pair any audio (IP speaker or intercom) with any IP cameras

Watch Automated Audio at YouTube

Central Server

R e cording Server

IP S p eaker

IP Intercom Client

Network Connection (SSL)

IP Camera

Operator

IP Intercom Master
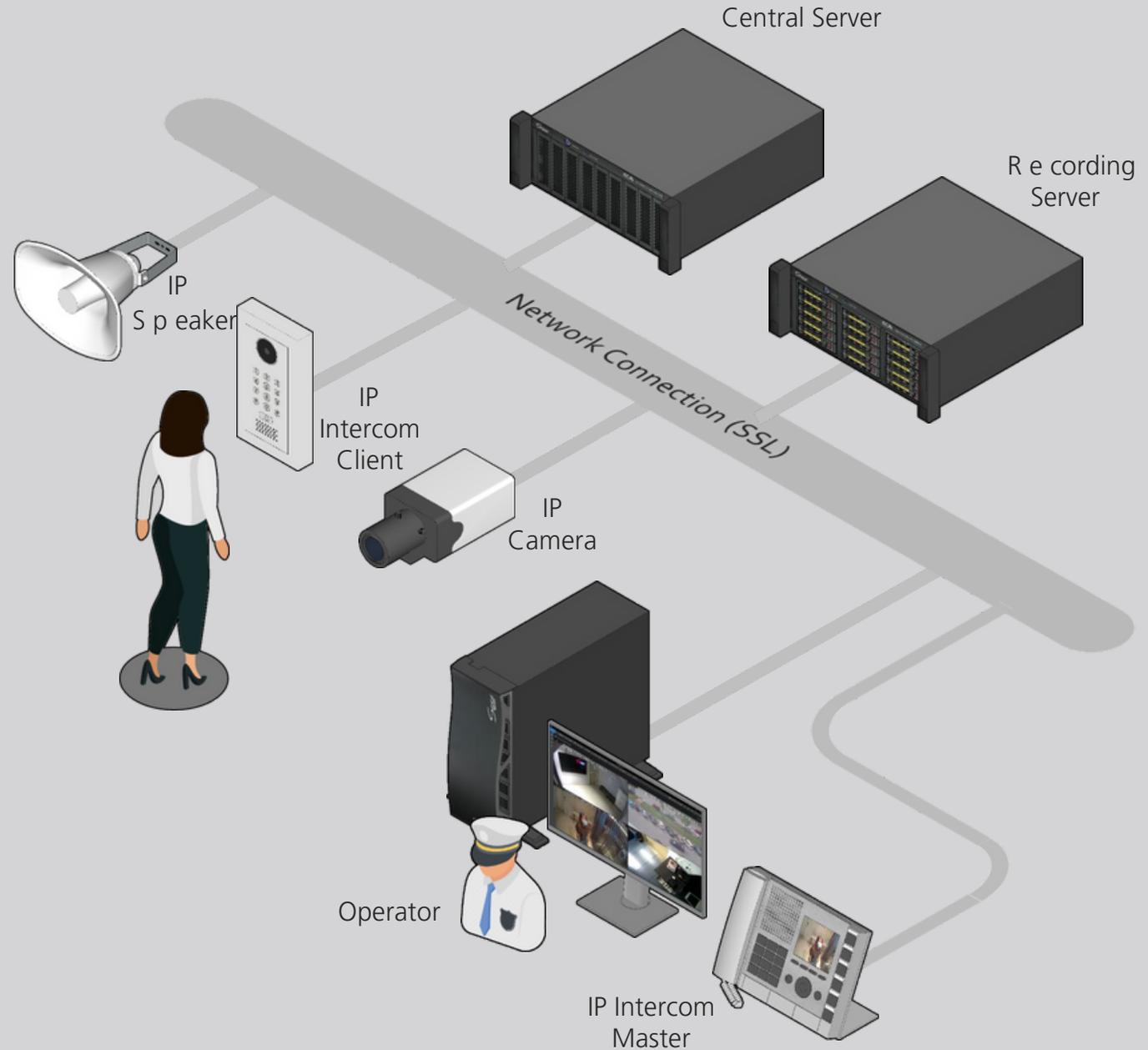
# Barcode & Text Based Data Capture

**1. Scan & capture**
barcodes / QR codes

**2. VDS Collector Client**
captures & send data

**3. VDS Collector Server**
receive data

**4. VDS Database Server**
store data

**5. VDS Data display**
on Macula Monitor
VDS search & playback

*Supports multiple clients for data collection

Visual Data Server

Recording Server

User's PC

Barcode Scanner

CCTV Camera

Network Connection (SSL)

Data Forms Inputs

CCTV Camera
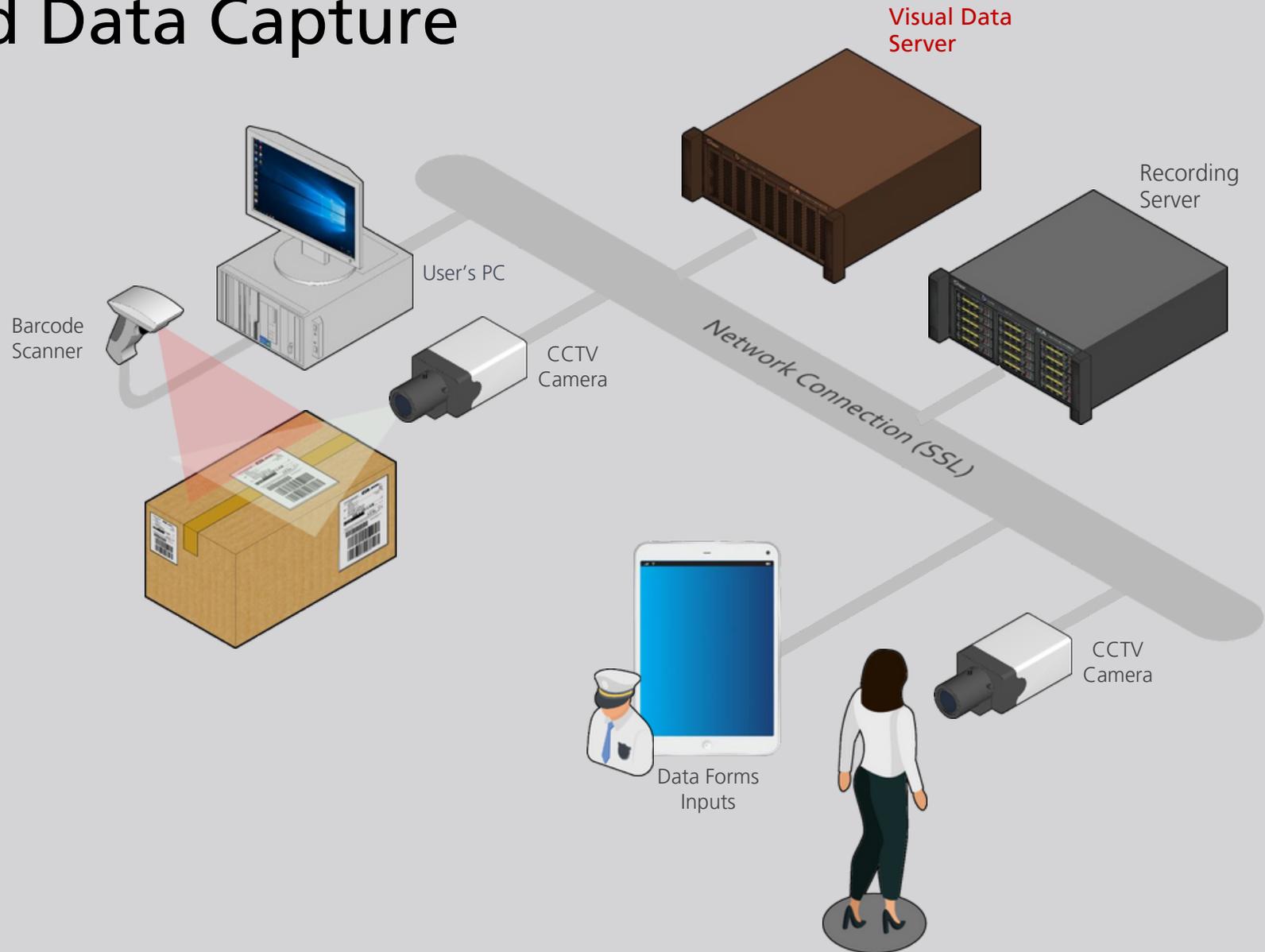
# Access Control Integration

## Seamless pairing CCTV with Access Control

Inone single GUI, single login access both systems for Instant search on events log plus CCTV footage simultaneously.

▶ Seamless User Experience
https://youtu.be/xfc5ZNEJSNw?si=7woVm4jotgfiJhqK

▶ Door Functions
https://youtu.be/PBrIqZ6Kiz4?si=b3RsVowHDD22f7Eu

▶ Cardholder Features
https://youtu.be/vQ9Em7F3vY4?si=u-dS46EqNmWCIVep

▶ Smart Filter & Search
https://youtu.be/4bHXGrGIkS0?si=vSONSjxW0PB3a9q_

▶ Event Action
https://youtu.be/qyktaP0QXJ0?si=tYz7bLiejPgpf8Ri



Visual Access System (VAS) brochure here: https://gsfcorp.com/downloads/vas.pdf

| | | | | |
|---|---|---|---|---|
| 🔖 | Info | 3/9/2020 15:47:46 | Human Detected | Street View |
| 🔖 | Info | 3/9/2020 15:45:12 | Human Detected | Street View |
| 🔖 | Info | 3/9/2020 15:43:59 | Human Detected | Street View |
| 🔖 | Info | 3/9/2020 15:42:42 | Human Detected | Street View |
| 🔖 | Info | 3/9/2020 15:41:01 | Human Detected | Street View |
| 🔖 | Info | 3/9/2020 15:40:27 | Human Detected | Street View |
| 🔖 | Info | 3/9/2020 15:40:08 | Human Detected | Street View |
| 🔖 | Info | 3/9/2020 15:39:35 | Human Detected | Street View |
| 🔖 | Info | 3/9/2020 15:35:14 | Human Detected | Street View |
| 🔖 | Info | 3/9/2020 15:33:57 | Human Detected | Street View |
| 🔖 | Info | 3/9/2020 15:29:09 | Human Detected | Street View |
| 🔖 | Info | 3/9/2020 15:26:57 | Human Detected | Street View |
| 🔖 | Info | 3/9/2020 15:26:08 | Human Detected | Street View |
| 🔖 | Info | 3/9/2020 15:22:30 | Human Detected | Street View |
| 🔖 | Info | 3/9/2020 15:21:09 | Human Detected | Street View |
| 🔖 | Info | 3/9/2020 15:20:56 | Human Detected | Street View |
| 🔖 | Info | 3/9/2020 15:19:02 | Human Detected | Street View |
| 🔖 | Info | 3/9/2020 15:18:11 | Human Detected | Street View |

227 bookmarks(s) found

Export CSV...

# Ai-Powered Human Detection

Human is what we interested. The Ai based human detection sensor can filter or TAG the event whenever human appear in the CCTV cameras.

# Ai Based Perimeter Intrusion Detection

Virtual perimeter or virtual fencing make overall site deployment a huge cost saving by eliminate expensive cabling cost. Yet it is a lot more accurate because it would alert only if human triggered the virtual line.

# Ai Based Crowd Detection

We can set virtual Zone from any surveillance camera and set (for example) if there is more than 2 person then alert. This is useful and cost effective for control and in confined space we can use it as social distancing.

# Ai Based Counting

count when human pass IN or OUT the counting lines. This is very useful to know statistic for your premises like entrance. Now you can turn any cameras into statistic counters.

# Recordings Monitor
## Know each camera's recordings

**Know each camera's recordings**
This feature offer you insight about each individual cameras recording status, you will get

1. 24hours recordings status and recording %
2. Easily know if the cameras has no recordings and when no recordings.
3. Details recording statistics and time stamp for individual recording status.
4. Notifications and Alerts
5. Report in PDF

\* Available when Installed in ecaOS

# Devices Monitor
## On-prem devices uptime

This feature offer you insight about each individual devices like cameras, servers, access controller, video stream port, api-socket, web, and etc status

Monitor type: HTTP, Keyword, Ping and Port.
Interval from 1 minutes to 24 hours.
History record of 24hr, 7days, 14days and 30days
CSV data export and PDF report

\* Available when Installed in ecaOS
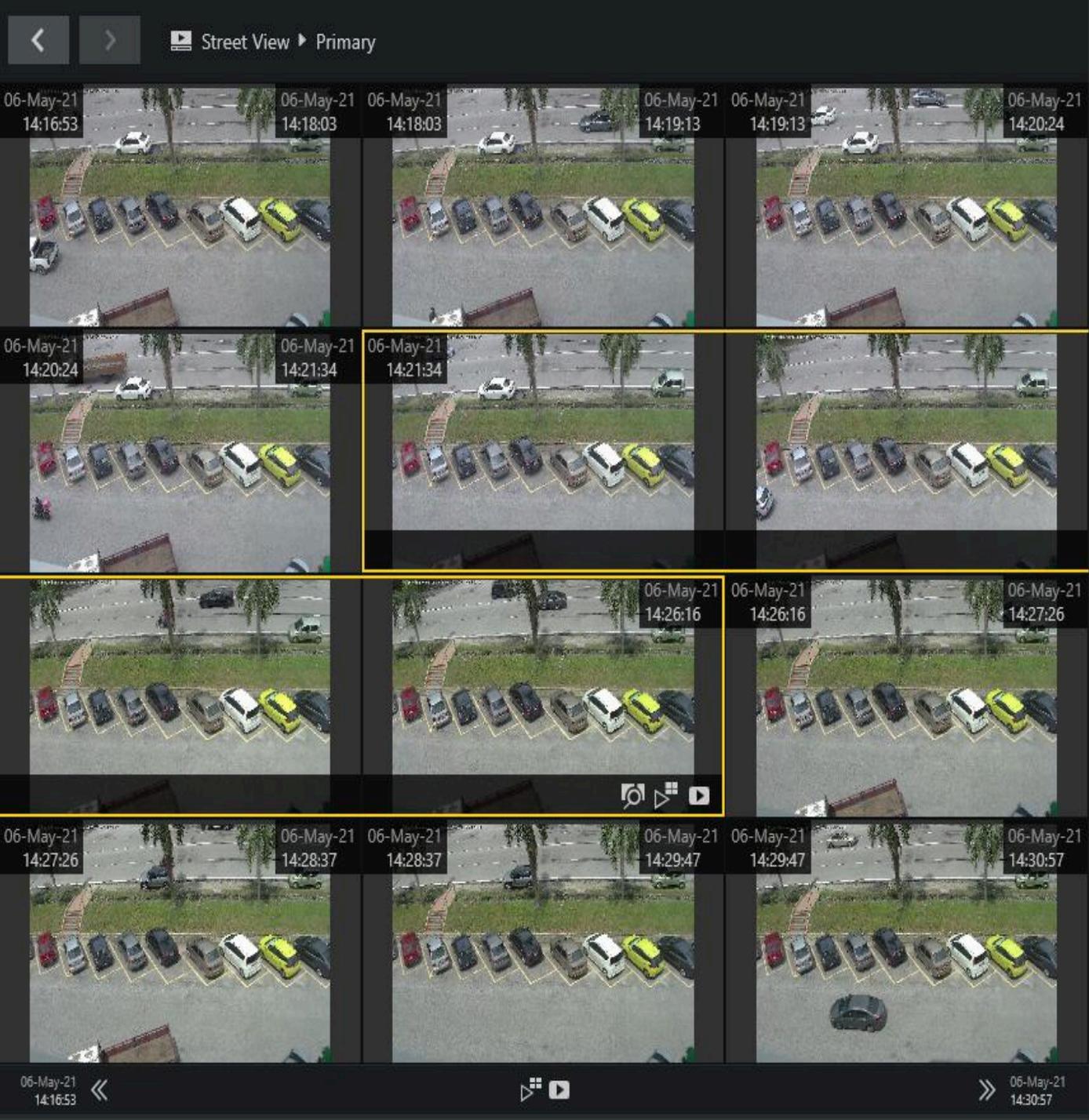
# Macula Monitor



## One App Operations

Macula Monitor. One App do all, familiar single APP GUI with TABs, user performs all the necessary video management in Macula Monitor, inclusive Video Wall Contro

# Macula Console



## Single App for Administrative

Macula Console. Network connected configurations. You can perform settings and configurations, add servers and cameras, system audit and health monitoring. Easily, via remote., all in one familiar GUI APP.

# Evidence Search. Super easy.

### Timeline Search

Simplest way to search by timeline of 24hr, 1hr, 10min, 1min & 10sec +forward or -backward. Across all devices.

### Sequence Search

Picture Story. Its divide your evidence into 2mins frame block, and show you an overall thumbnail pictures what happened to that scene.

### Smart Search

Intelligent motion search by region of interests.

### Bookmark Search

You can manually bookmark an suspicious event or TAG an event automatically from event logic or Sensors / Digital Inputs.

# Evidence Export.
# One Click!

To export video orimage evidence.Yes one click, with pre-defined parameters.

# Centralized Library Folder

All one click exported videos or images will store in library folder by default.

# CloudSynced

You can easily add the library folder into synced cloud drive. So you can see all the exported videos or images across all the computers (cloud synced). Support all major cloud drive like OneDrive, Google Drive, Dropbox, etc.
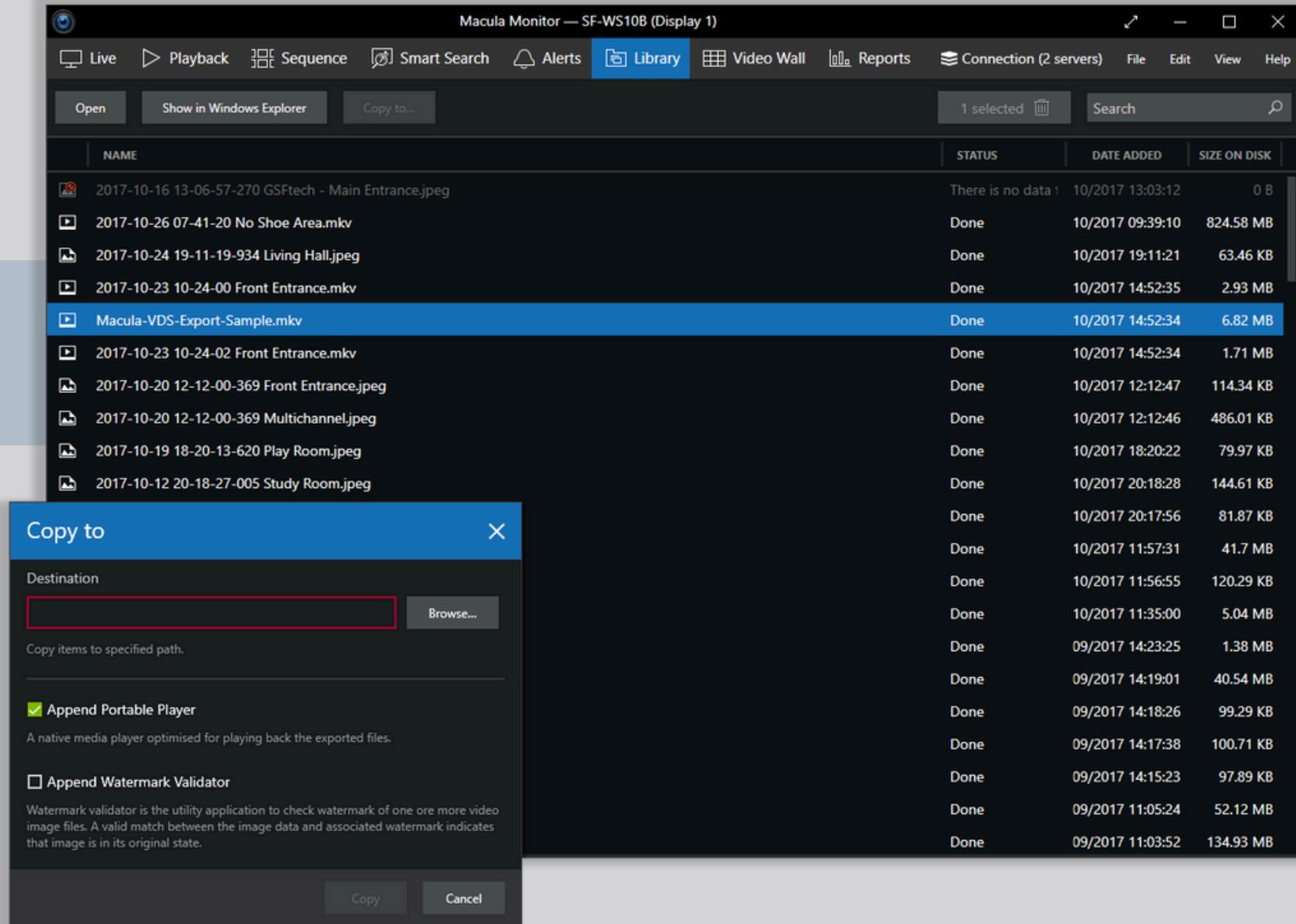


OneDrive    Google Drive    Dropbox

Macula Monitor — SF-WS10B (Display 1)

Live    Playback    Sequence    Smart Search    Alerts    Library    Video Wall    Reports    Connection (2 servers)    File    Edit    View    Help

Open    Show in Windows Explorer    Copy to...    1 selected    Search

| NAME | STATUS | DATE ADDED | SIZE ON DISK |
|------|--------|------------|--------------|
| 2017-10-16 13-06-57-270 GSFtech - Main Entrance.jpeg | There is no data | 10/2017 13:03:12 | 0 B |
| 2017-10-26 07-41-20 No Shoe Area.mkv | Done | 10/2017 09:39:10 | 824.58 MB |
| 2017-10-24 19-11-19-934 Living Hall.jpeg | Done | 10/2017 19:11:21 | 63.46 KB |
| 2017-10-23 10-24-00 Front Entrance.mkv | Done | 10/2017 14:52:35 | 2.93 MB |
| Macula-VDS-Export-Sample.mkv | Done | 10/2017 14:52:34 | 6.82 MB |
| 2017-10-23 10-24-02 Front Entrance.mkv | Done | 10/2017 14:52:34 | 1.71 MB |
| 2017-10-20 12-12-00-369 Front Entrance.jpeg | Done | 10/2017 12:12:47 | 114.34 KB |
| 2017-10-20 12-12-00-369 Multichannel.jpeg | Done | 10/2017 12:12:46 | 486.01 KB |
| 2017-10-19 18-20-13-620 Play Room.jpeg | Done | 10/2017 18:20:22 | 79.97 KB |
| 2017-10-12 20-18-27-005 Study Room.jpeg | Done | 10/2017 20:18:28 | 144.61 KB |
| | Done | 10/2017 20:17:56 | 81.87 MB |
| | Done | 10/2017 11:57:31 | 41.7 MB |
| | Done | 10/2017 11:56:55 | 120.29 MB |
| | Done | 10/2017 11:35:00 | 5.04 MB |
| | Done | 09/2017 14:23:25 | 1.38 MB |
| | Done | 09/2017 14:19:01 | 40.54 MB |
| | Done | 09/2017 14:18:26 | 99.29 KB |
| | Done | 09/2017 14:17:38 | 100.71 KB |
| | Done | 09/2017 14:15:23 | 97.89 KB |
| | Done | 09/2017 11:05:24 | 52.12 MB |
| | Done | 09/2017 11:03:52 | 134.93 MB |

## Copy to

**Destination**

Browse...

Copy items to specified path.

☑ Append Portable Player

A native media player optimised for playing back the exported files.

☐ Append Watermark Validator

Watermark validator is the utility application to check watermark of one ore more video image files. A valid match between the image data and associated watermark indicates that image is in its original state.

Copy    Cancel

# Visual . Data . Solutions.

by combining both visual and data, user can proof many concrete evidence to reduce losses yet achieve customer satisfaction

## AddonsApp

Enhance user usability, by addon more applications, like Access Control, Bar Code, LPR, FACE, Alarms, POS, Visitors Registration and many more…

## Database

With SQL database structure, virtually you can integrate any set of data you want with pair with visual form any cameras.

## DataOverNetwork

With GSF VDS Collector Small-APP client and Collector Server, you can transmit/receive any data over the TCP/IP with SSL secured connection.

# All Cameras Supported. Almost.

Virtually anyIPcamerasinthemarketweresupported.
More than 4000 models of camera in the market.
As well as ONVIF Profile-S

## Onvif Profile-G Edge Recording

Upon network lost, the camera (edge) will start
recording in it's SD card. And automatic sync back
to server when network resume.

## H.265 HEVC Ready

Savealmost40%ofstoragespace with this compression

## I/O Device (Sensors)

SupportMoxa, or networkI/O module to collect
more sensors data like magnetic or motions PIR.

## Pre-recorded Video/Picture Files or RTSP

You can loadanyrecordedvideosfileslikeAVI&JPEGas
devicesource.Thisisusefulasinformation/ADsdisplay.Or
any RTSP video source input.

## Mobile Cameras

Turns any android/IOS device
into surveillance cameras with
audio, and manage them as
one of the CCTV cameras.

Device Camera

Streaming | 269827 | 30/30 | 88064 | 43/43

# Access from anywhere. Any mobile device.
## Macula Mobile

IOS orAndroid, Chromecast, MAC-OS native app download from Google Play Store or Apple App Store.

GET IT ON Google Play

Download on the App Store

## Mobile Notifications and Control
Gets notified fromsmart logic events,likemain door open or control car porch lights.

## HTML 5 Web Client
Any modern webbrowserlike Chrome. No plugins installation is required.

## Live Broadcast
LiveBroadcast anycameras to RTMP protocol, like YouTube, Facebook.
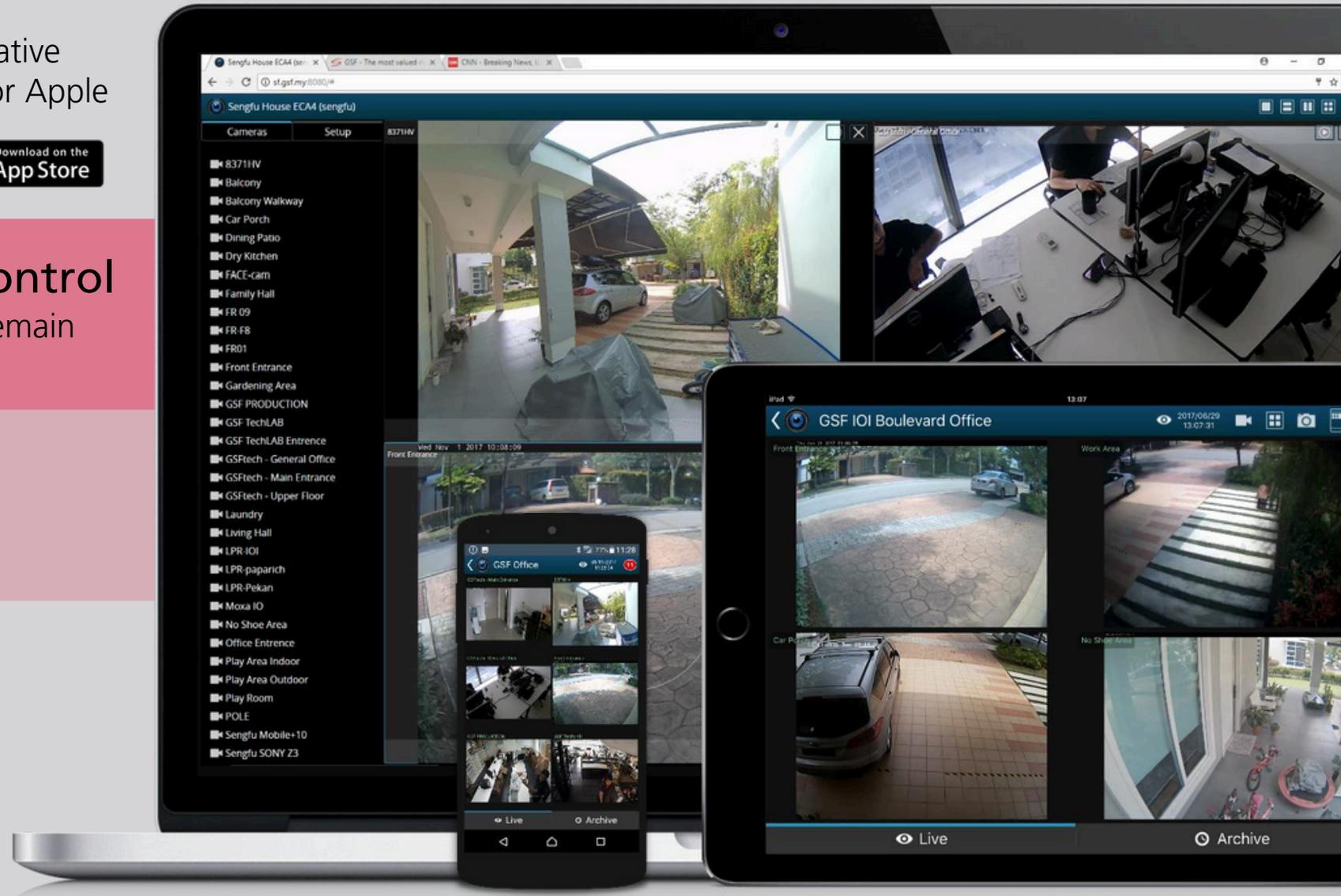
# Servers

Enterprise IT friendly.

## Central Server

Centralized management server, keep all settings, users account, and licenses. Support Mirroring for Redundancy.

## Streaming Server

With multi-cast technology built-in, the server can support virtually no limitation of video stream out client connections, without increasing or CPU loads.



## Recording Server

Local or remotelydeploy recording server. Assign license via Global Server and add local cameras remotely.

## Replication Server

Useas temporary local buffer server. Send archive to Data Center on network availability or by schedule, in lower FPS.

## Backups Wizard

Step bystep wizard easily backup any video to external storage.

## Fall-Back Drive

In smaller scale design, where failed over server is not in place, the fall-back HDDS in individual server or NAS maybe the helper to take over the recordings when main storage is failed.

## Failover Server

Sometimes very unfortunate event happened. You may need the WHOLE-SERVER failed over as backup plan. Macula Enterprise support multi group failover servers to any recording servers, via networks.

## Video Wall

Macula Enterprise support centralized managed and create comprehensive video wall environment in the control room via network.

**General System Diagram**
*Central Managed Surveillance*

**LOCATION #1**
- Network Cameras
- Server Client Mode
- Recording Server

**ANYWHERE**
- PC Client
- Smart Phone or Tablet
- Web Client
- HTML 5
- View Live Broadcast
- Mobile Phone Camera
- Internet

**CONTROL CENTRE**
- Global Server
- Global Server Mirror
- Recording Server
- Failover Server
- Archive Replication Server
- Video Workstation (VW)
- Video Workstation (VW)
- Video Wall Clients (VWC)
- Video Wall
- Network Cameras

**LOCATION #2**
- Network Cameras
- Recording Server
- Video Workstation (VW)

# Macula features

updated version 1.31.0

# Control Panel – v1.31.0

- Real-time monitoring of system states, device statuses, and various metrics directly within the viewport.



Control Panel

# Syslog Client – v1.31.0

- Forward all audit events to external syslog server

# Cloud connector & video sharing – v1.30.0

- Available in both Enterprise and Professional editions.
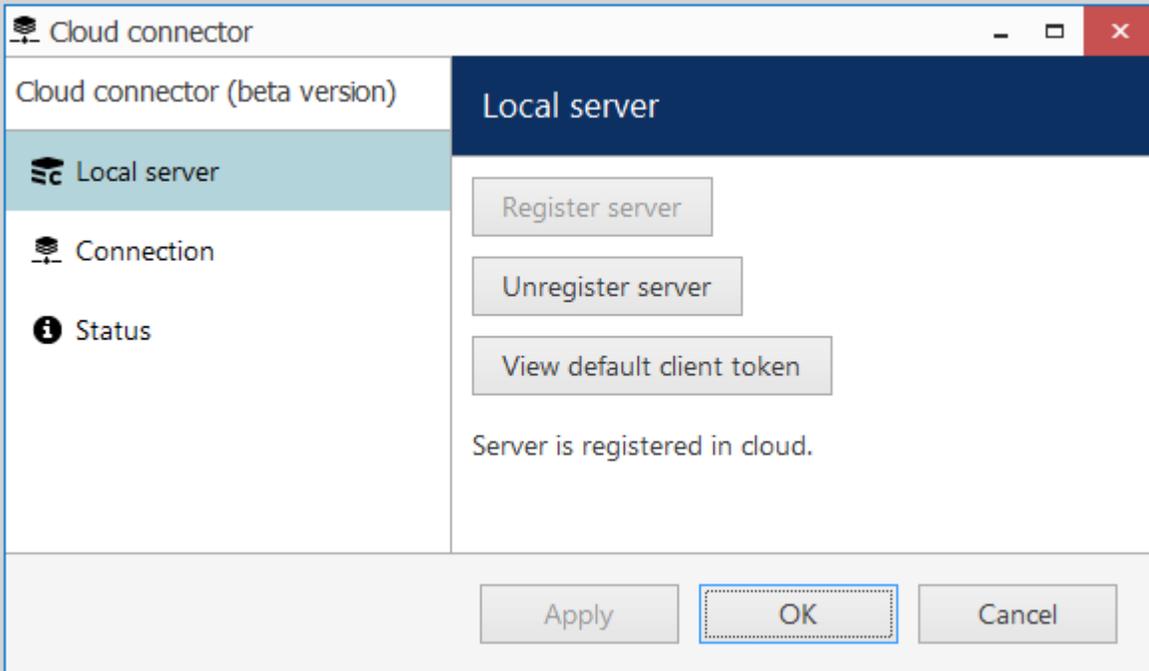


Cloud connector registration
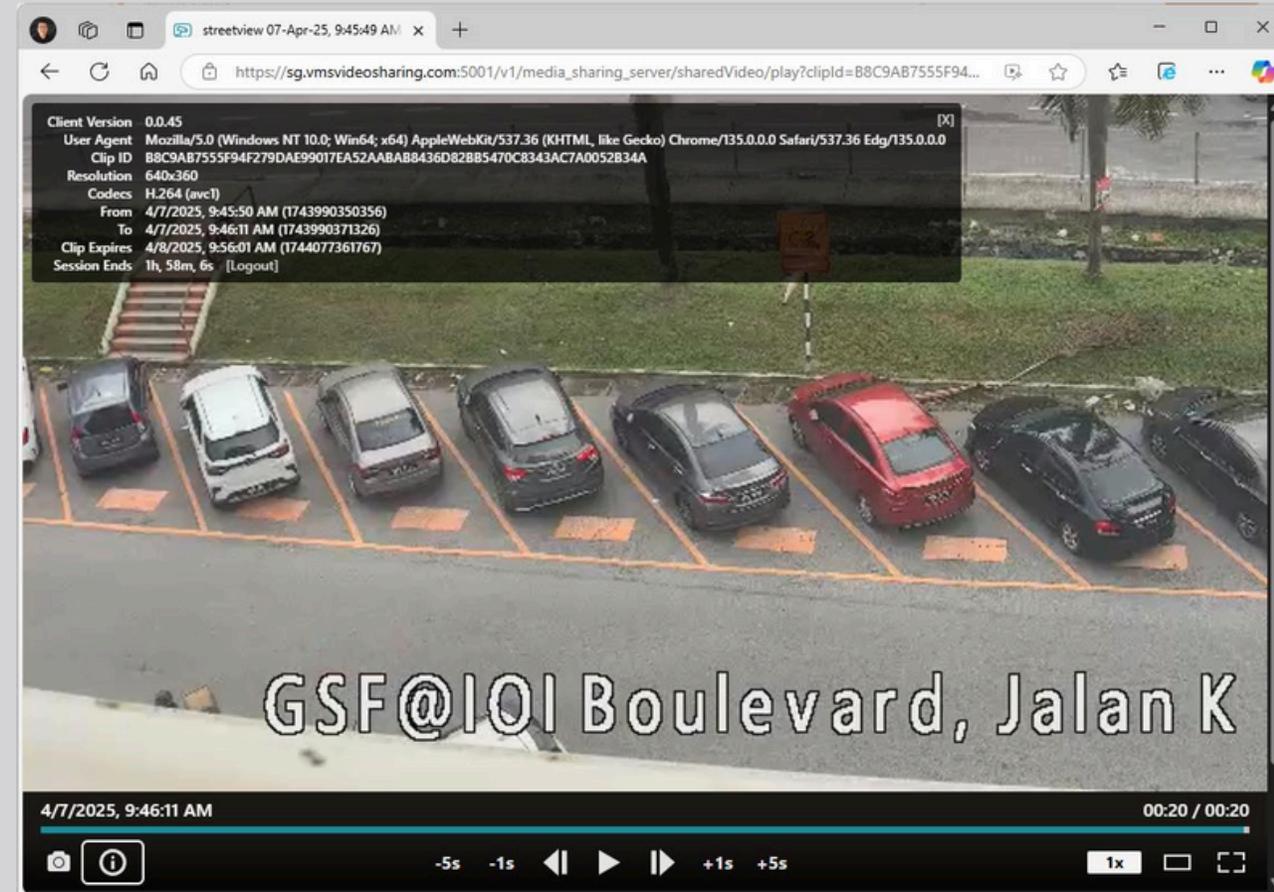


Video sharing

# Audit Report based on Critical events – v1.30.0
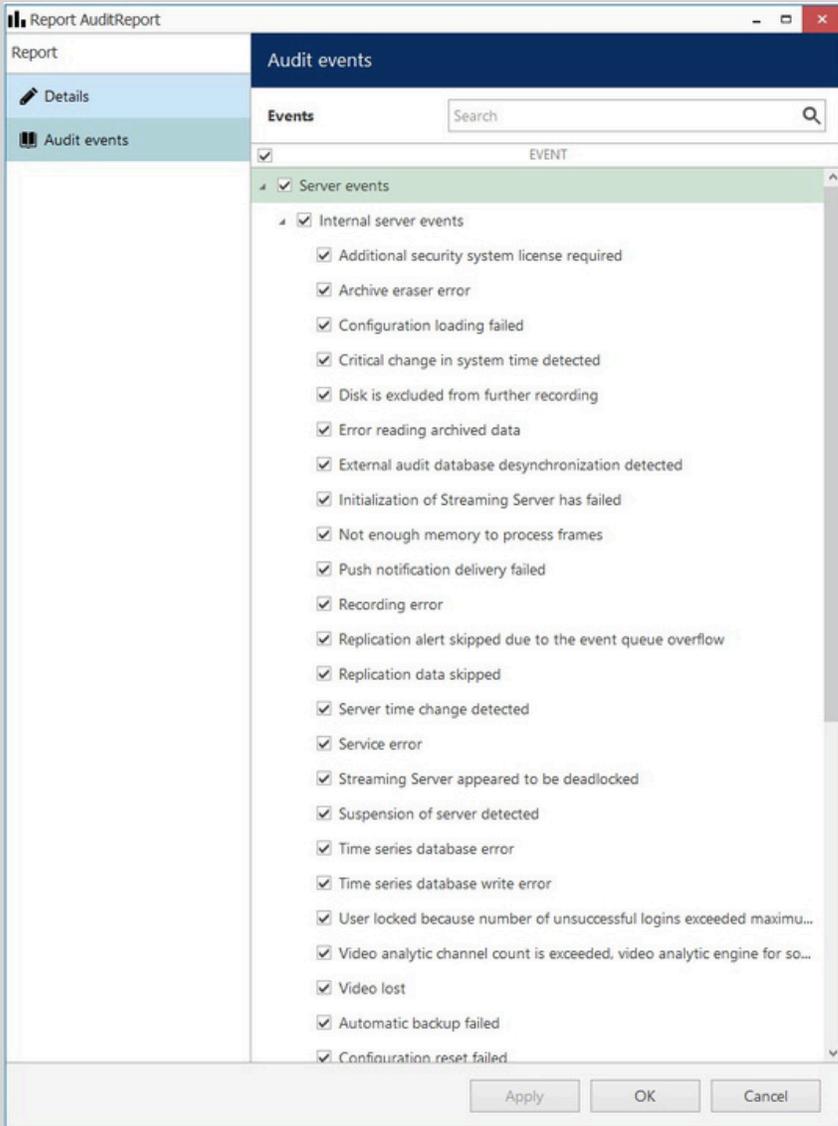


Audit Events
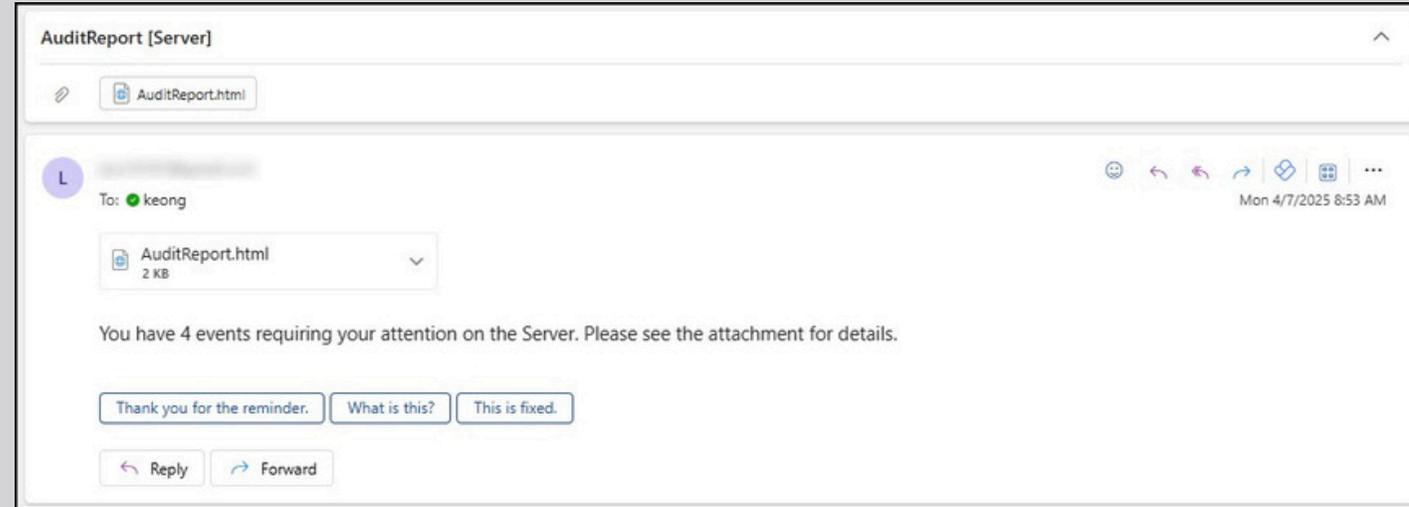


Audit Report as an email attachment.
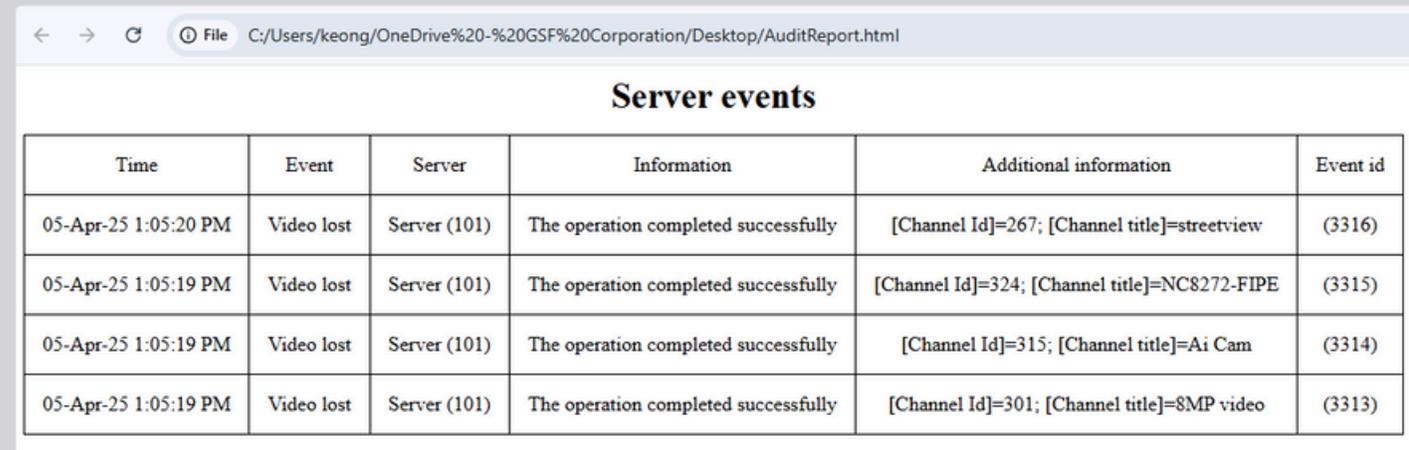


Audit Report in html format

# Temporary permissions – v1.30.0

- Administrator can provide temporary access to a particular resource

# Added file-by-file replication option – v1.29.0

- Data Integrity Handling: On startup, the replication process reviews the last MDAT file(s) for integrity. If issues are detected (e.g., due to an unexpected shutdown), it re-copies the previous portion to maintain data consistency.
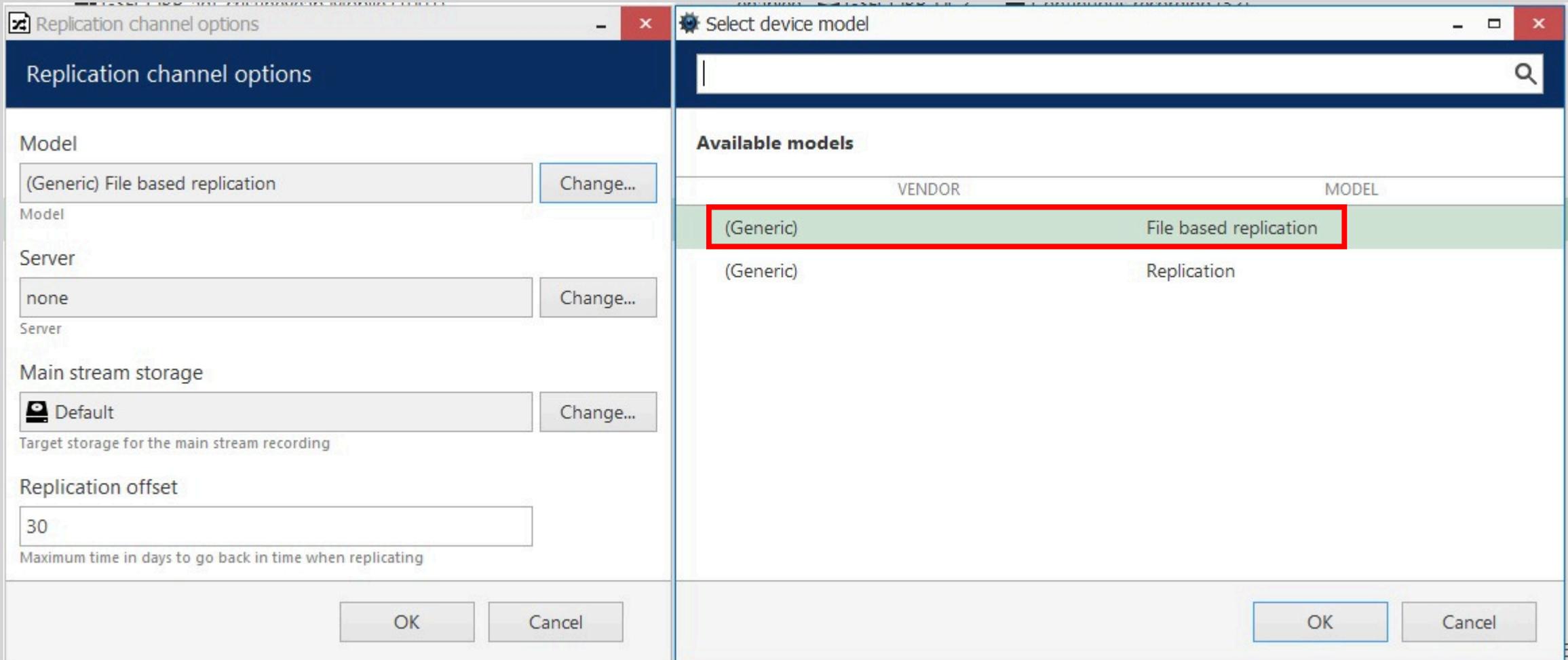
# New map marker – v1.28.0

- 2D zones, with an option to bind them to user buttons and indicators
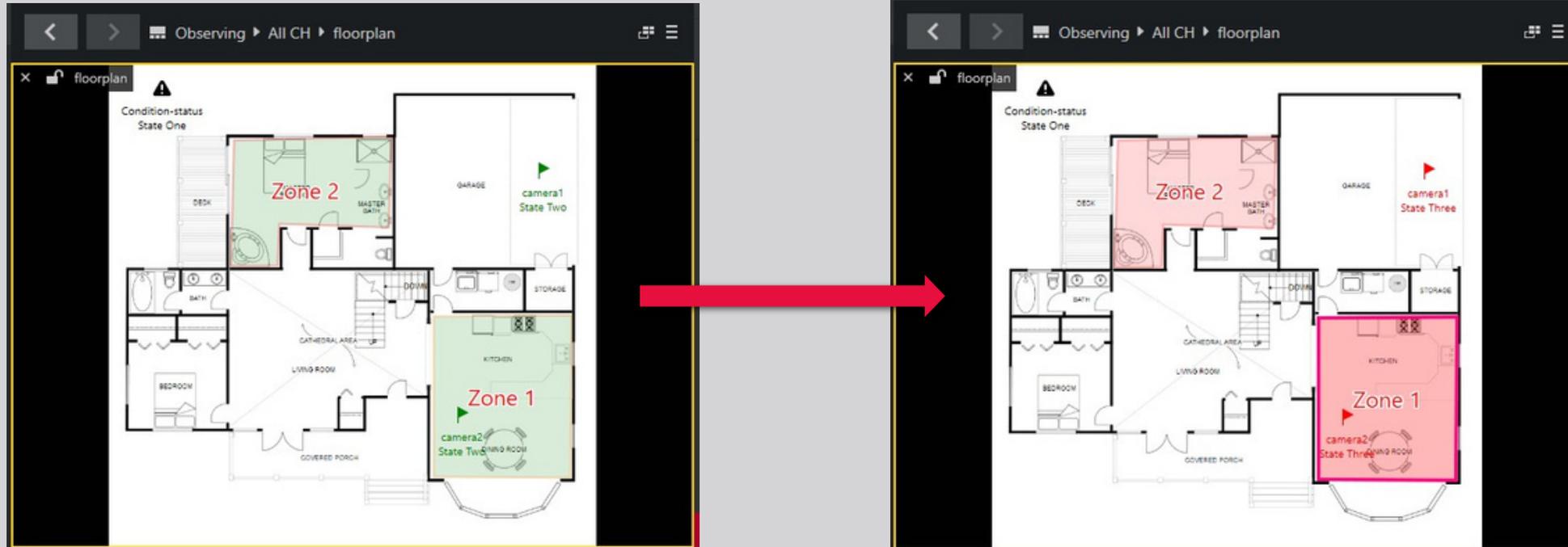
# Edge LPR Devices – v1.28.0

- Macula supports Vaxtor LPR on Mobotix MOVE, Vivotek, and Hanwha devices.

# Resource tree icons – v1.28.0

- option to define resource tree icons for Visual Groups, Crosslinks, Channels, and User Buttons

# H.265 streaming in Chrome (Web Client) – v1.28.0

- Live & Playback

# Stream RTSP video from Macula Server – v1.27.0

- Link template:

  rtsp://user:password@Server_IP:RTSP_port/channel_ID/live/stream_type (main or substream)
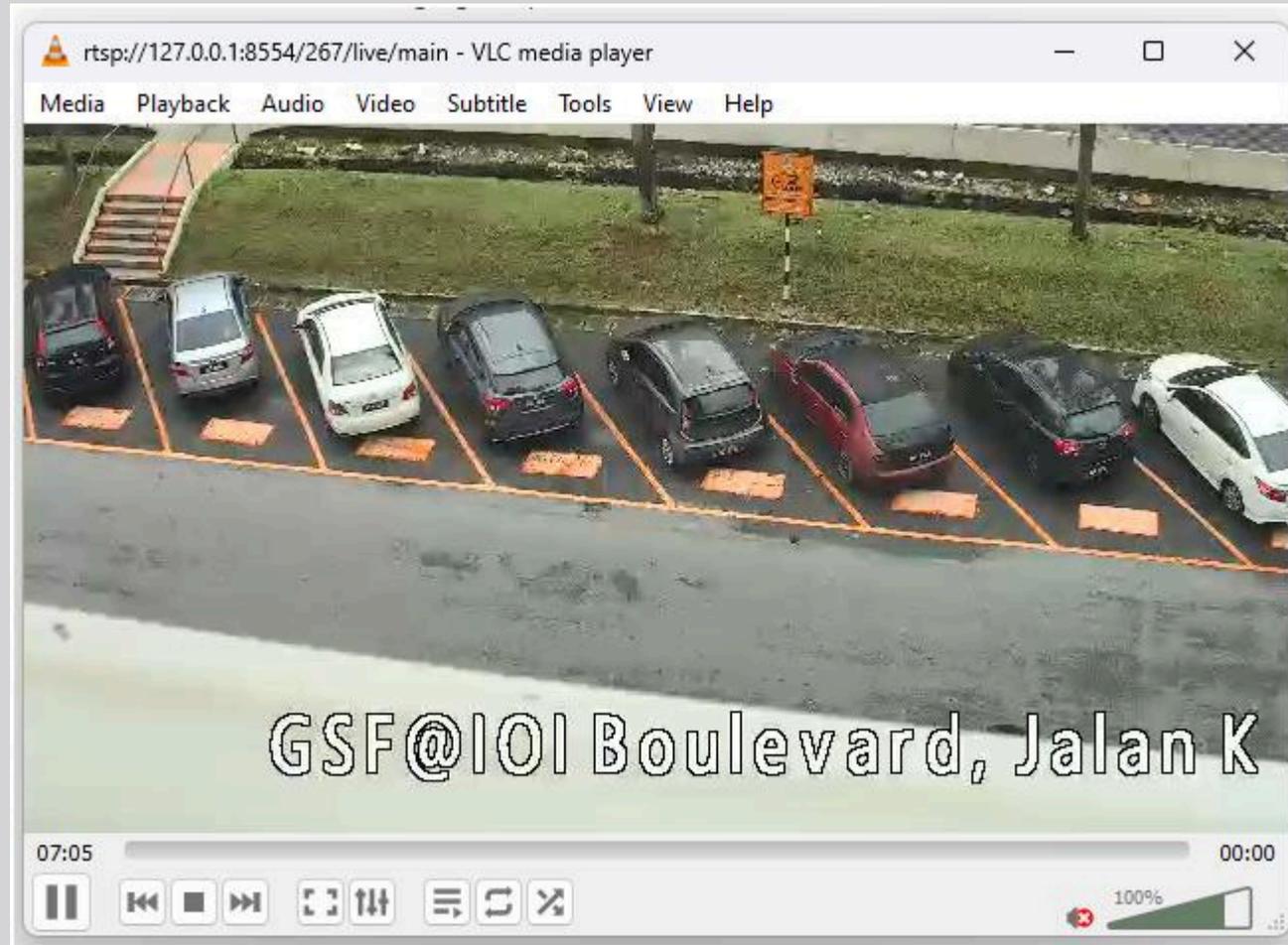
# Select layouts for visual groups automatically – v1.27.0

# Snackbar style notifications – v1.27.0
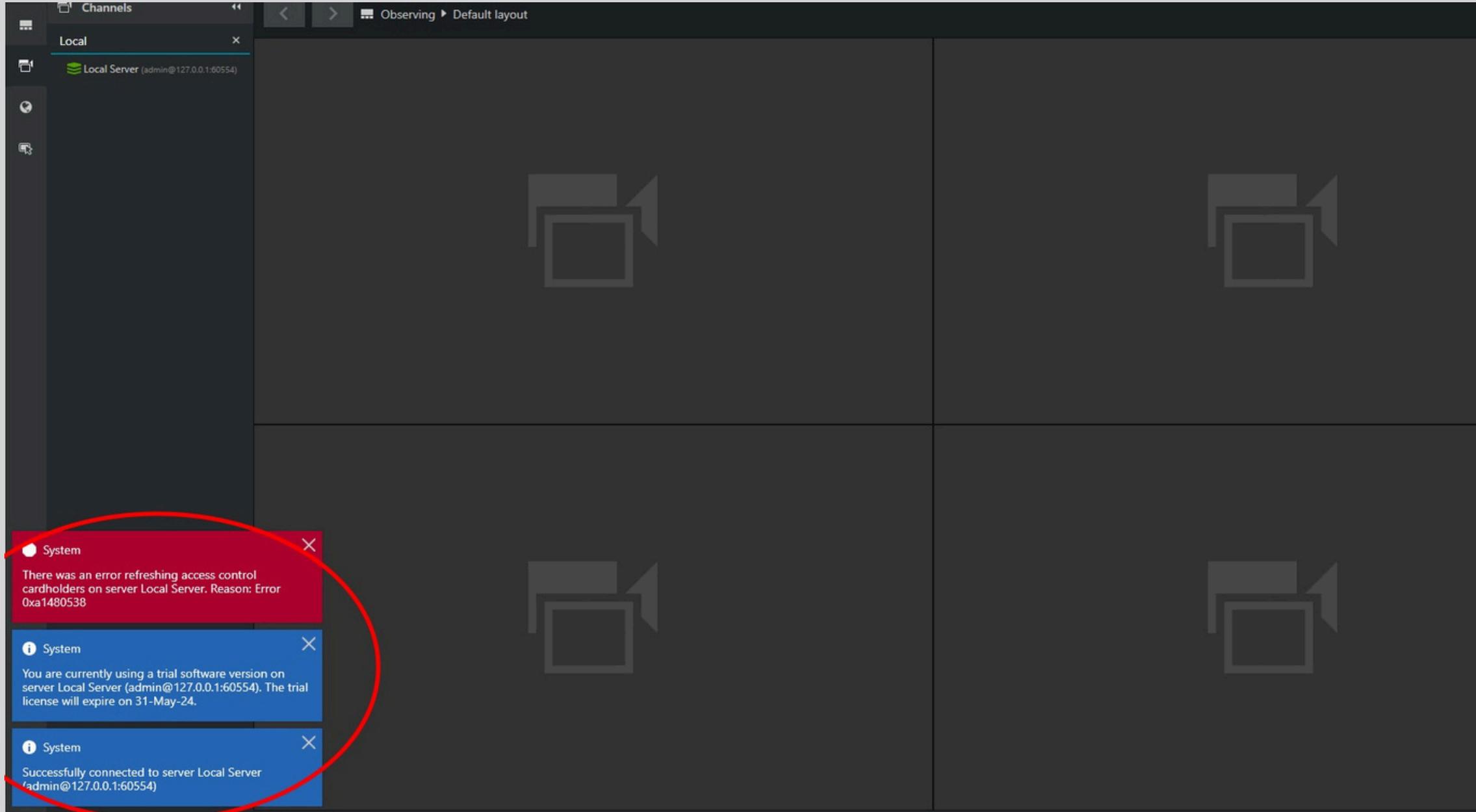
# Users and user groups time-based access– v1.26.0

- Assign schedules to users and user groups
- can limit user access options based on the schedules

# Option to watermark the video in Monitor – v1.26.0

- Add watermark with the logged-in monitor User's ID over the all Live View and Playback viewports displaying video streams.
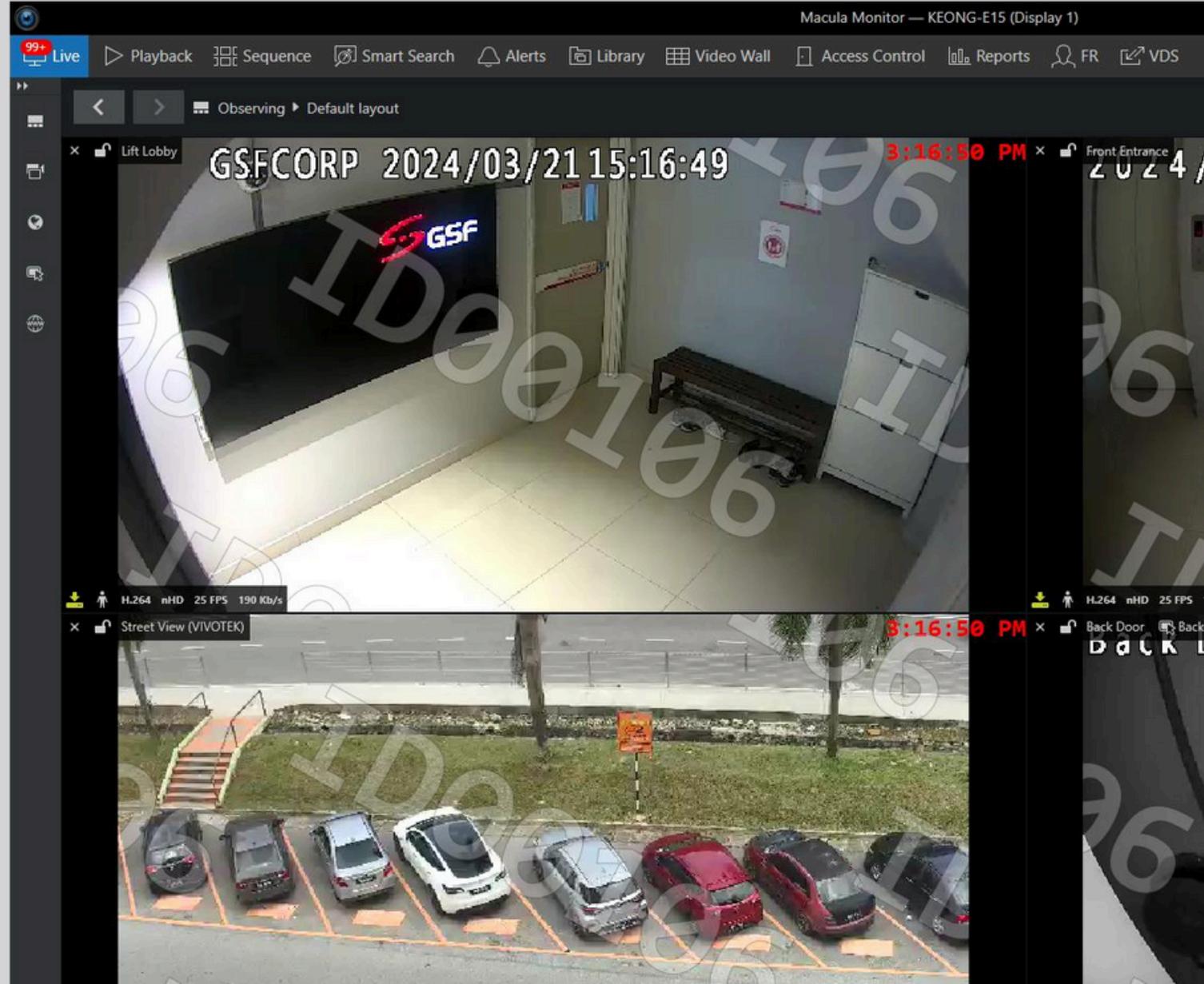
# Case Export in Monitor – v1.25.0

- Asynchronous video export of multiple channels with custom time ranges

- Create a "story" video from all the available channels, with different intervals.

# Detailed audit event log for archive access – v1.25.0

- Trackuser activity inthe archiveplayback mode of MaculaMonitor
- Playback, Export video, & Snapshots with Start and End time



| Event 3717183:Archived data accessed | |
|---|---|
| **Event details** | |
| Id | (3717183) |
| Time | 06-Sep-23 4:03:46 PM |
| Class | User |
| Subclass | User activity |
| Event | Archived data accessed |
| Server | Macula Server (101) |
| User Id | admin (1) |
| User name | admin |
| Channel Id | StreetView (141) |
| Channel title | StreetView |
| Stream type | Video stream |
| Time from | 25-Jul-23 3:13:37 PM |
| Time to | 25-Jul-23 3:13:38 PM |
| Remote address | 127.0.0.1:14123 |
| Connection type | Client |
| Connection id | 9 |

Playback — OK

| Event 3717187:Archived data exported | |
|---|---|
| **Event details** | |
| Id | (3717187) |
| Time | 06-Sep-23 4:04:50 PM |
| Class | User |
| Subclass | User activity |
| Event | Archived data exported |
| Server | Macula Server (101) |
| User Id | admin (1) |
| User name | admin |
| Channel Id | StreetView (141) |
| Channel title | StreetView |
| Stream type | Video stream |
| Time from | 24-Jul-23 3:32:31 PM |
| Time to | 24-Jul-23 3:32:46 PM |
| Remote address | 127.0.0.1:14123 |
| Connection type | Client |
| Connection id | 9 |

Export Video — OK

| Event 3717192:Archive snapshot exported | |
|---|---|
| **Event details** | |
| Id | (3717192) |
| Time | 06-Sep-23 4:05:47 PM |
| Class | User |
| Subclass | User activity |
| Event | Archive snapshot exported |
| Server | Macula Server (101) |
| User Id | admin (1) |
| User name | admin |
| Channel Id | StreetView (141) |
| Channel title | StreetView |
| Time from | 25-Jul-23 8:57:54 AM |
| Time to | 25-Jul-23 8:57:54 AM |
| Remote address | 127.0.0.1:14123 |
| Connection type | Client |
| Connection id | 9 |

Snapshot — OK

# Cybersecurity report – v1.24.0

- Four pre-defined security levelsrangefrom thelowesttothe highest. You can choose any level as a basis and, either leave it is it is, or turn off individual security checks

# Cybersecurity report – v1.24.0

- security shield indicates that the setting value does not meet the current cybersecurity level preference

# Monitor Auto Logout – v1.7.0

- Monitor auto logout setting in Monitor application after user inactivity
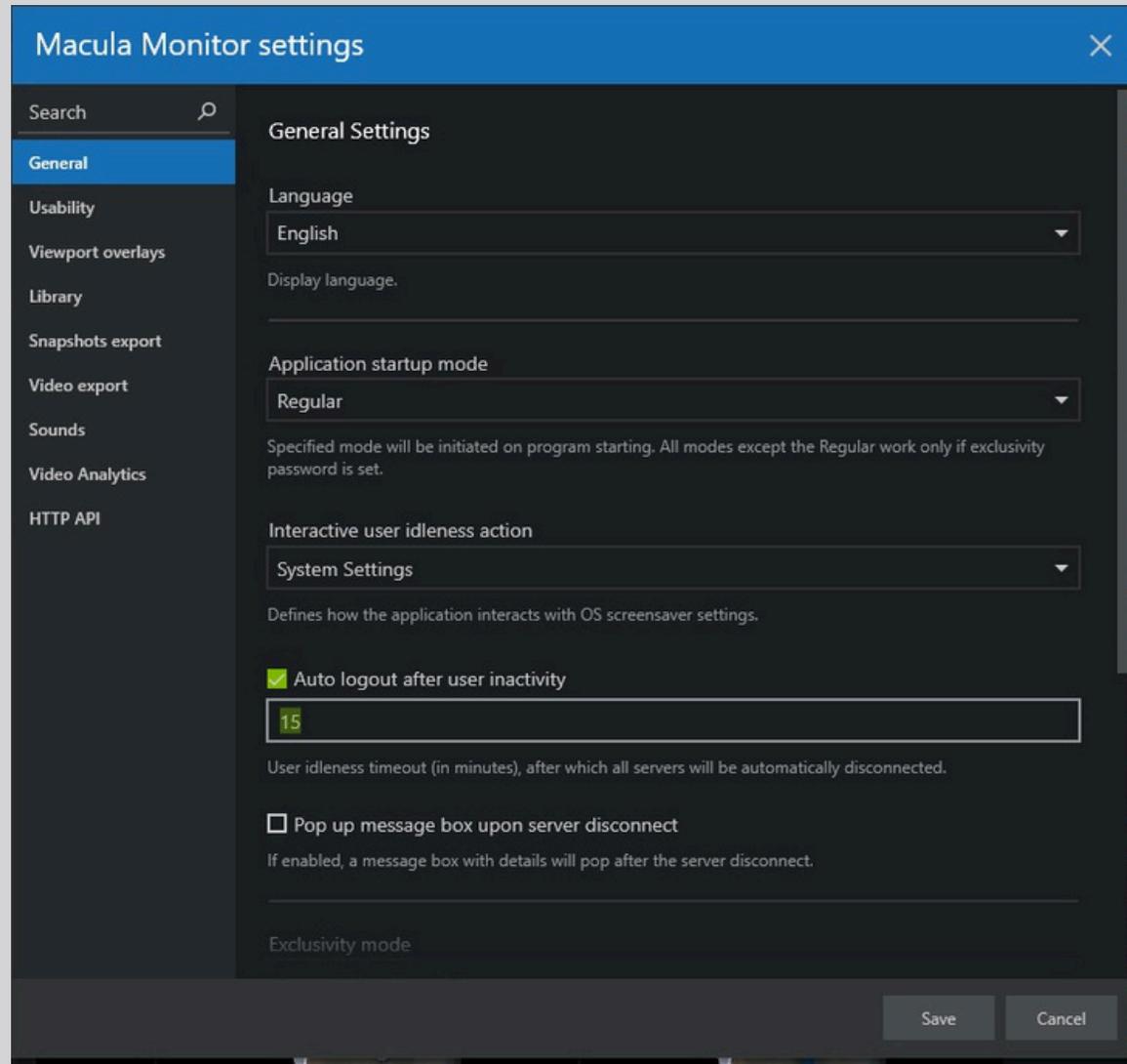
# User authentication via OAuth 2.0 – v1.24.0

- OAuth2.0 authentication provider–Apple,GoogleAccount,Microsoft,Okta
- For Macula Monitor and Macula Console applications
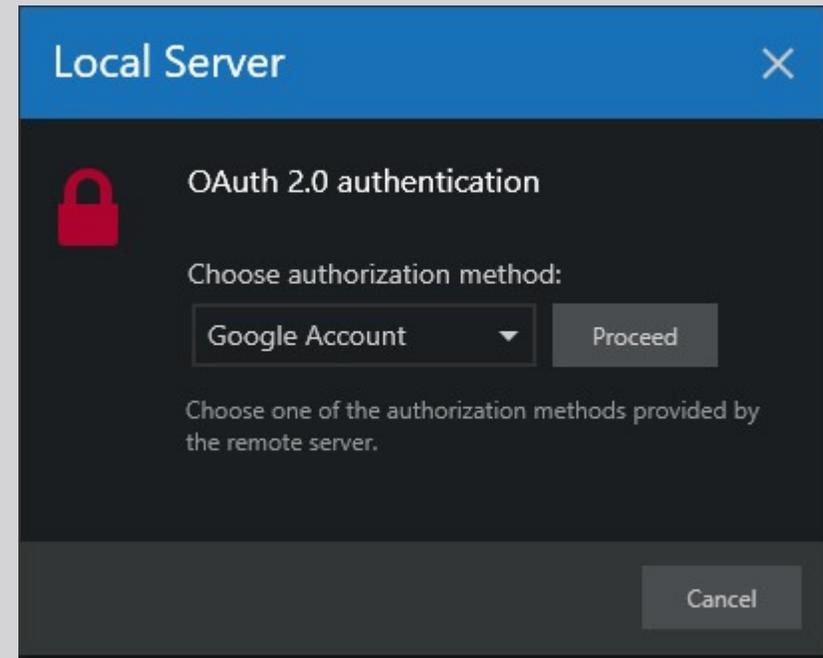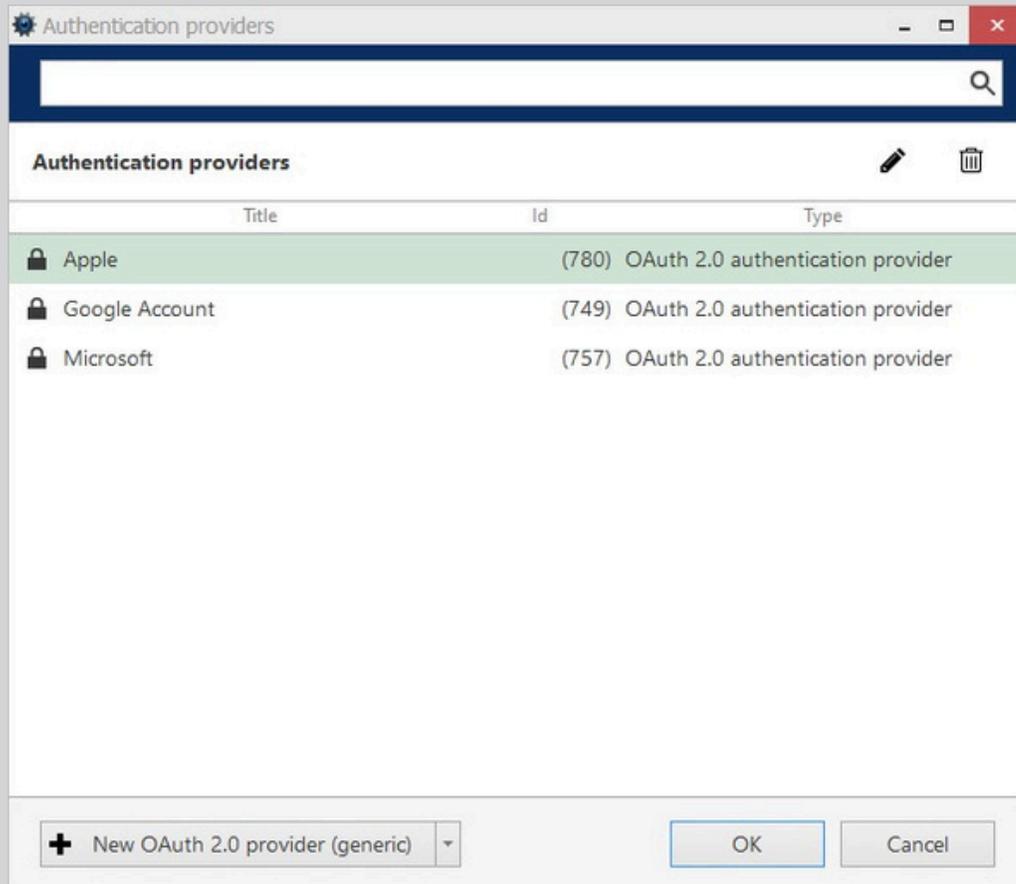
# i-PRO Active Guard integration – v1.24.0

- People Detection

  - Gender– Age - Hair length - Hair color - Sunglasses - Beard - Mask - Tops type -
  - Topscolor - Bottom type - Bottom color - Bag - Bags color - Shoes

- Vehicle Detection

  - Type(Truck/Bus/SUV/Van/Sedan/Pickup/Two wheels) - Color

# i-PRO Active Guard integration – v1.24.0

# Built-in MQTT client – v1.22.0

- Host MQTT clients
- subscribe MQTT topics
- publish MQTT messages.

# Alarm Pane – v1.19.0

- Display alarm events

  - Severity
  - color &
  - comments

- Tabs with different filters

# Export Snapshot as PDF Report– v1.18.0

# General Features of Macula Professional

Mobile Applications

- Useyourmobiledevicetoaccess
- live and archived streams.
- Trigger action like I/O via user defined buttons.
  Turn you mobile into a surveillance cameras.
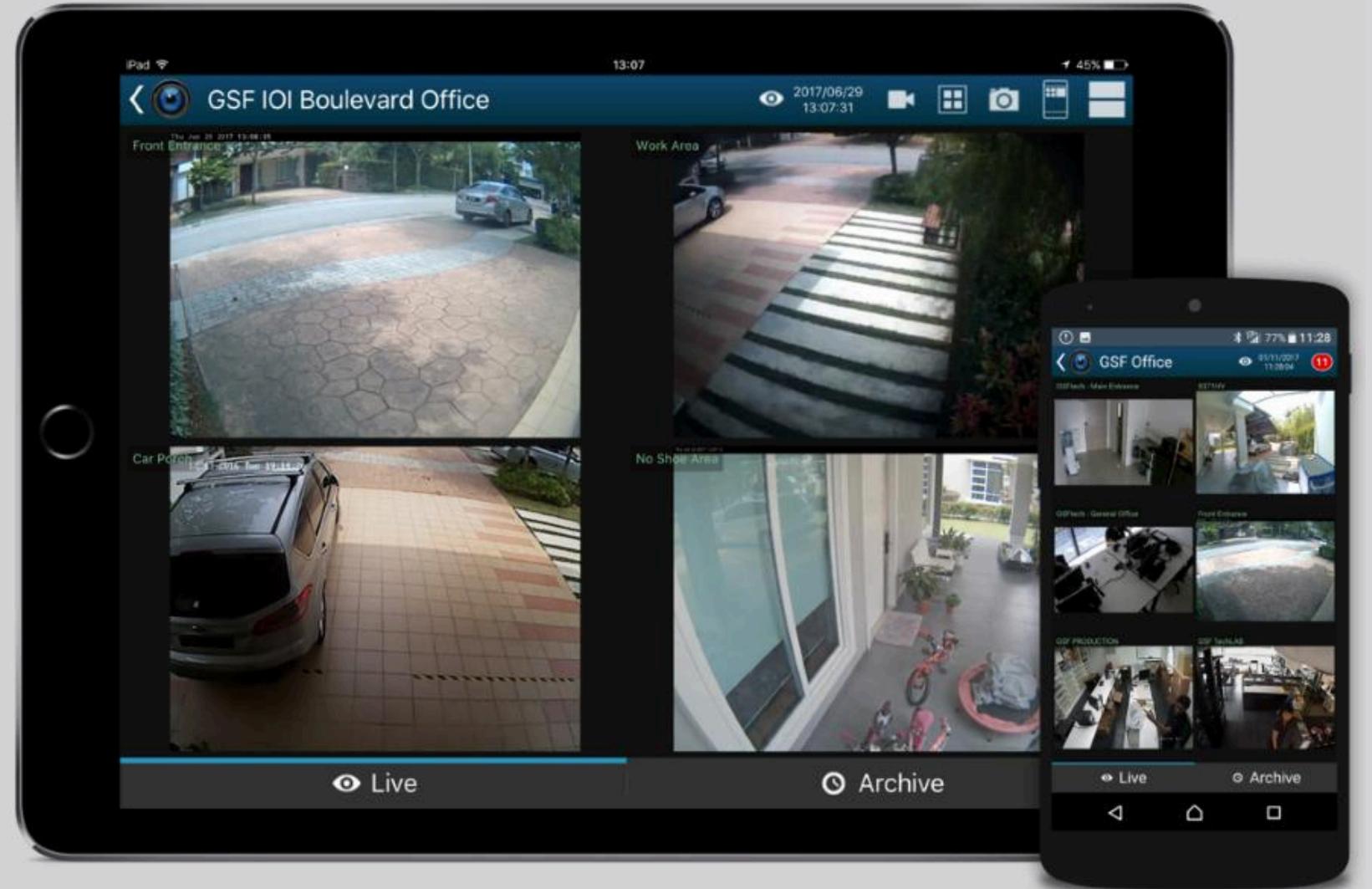
# General Features of Macula Professional

EdgeRecording

- Synchronizeallyourdatawithip device storage with ONVIF-G Profile.
- By doing this, even if the network connection with any cameraislost,yourdatawillstill be recorded by the camera.
- It will be transferred in full to your server as soon as the network connection is reestablished.

# General Features of Macula Professional

AiCamera
- Human Detection
- Perimeter Intrusion
- Crowd Detection
- Human Count & Report

# General Features of Macula Professional

Maps

- Complete examination of the entire installation of cameras, providing an immediate visual verification.
- All the alerts are integrated with the maps and can be set up so that they can be viewed on the overview as well you are able to immediately specify the location of the alarm event.

# General Features of Macula Professional

Webaccess
* Getpermanent access to live streaming and archive video through your web browser
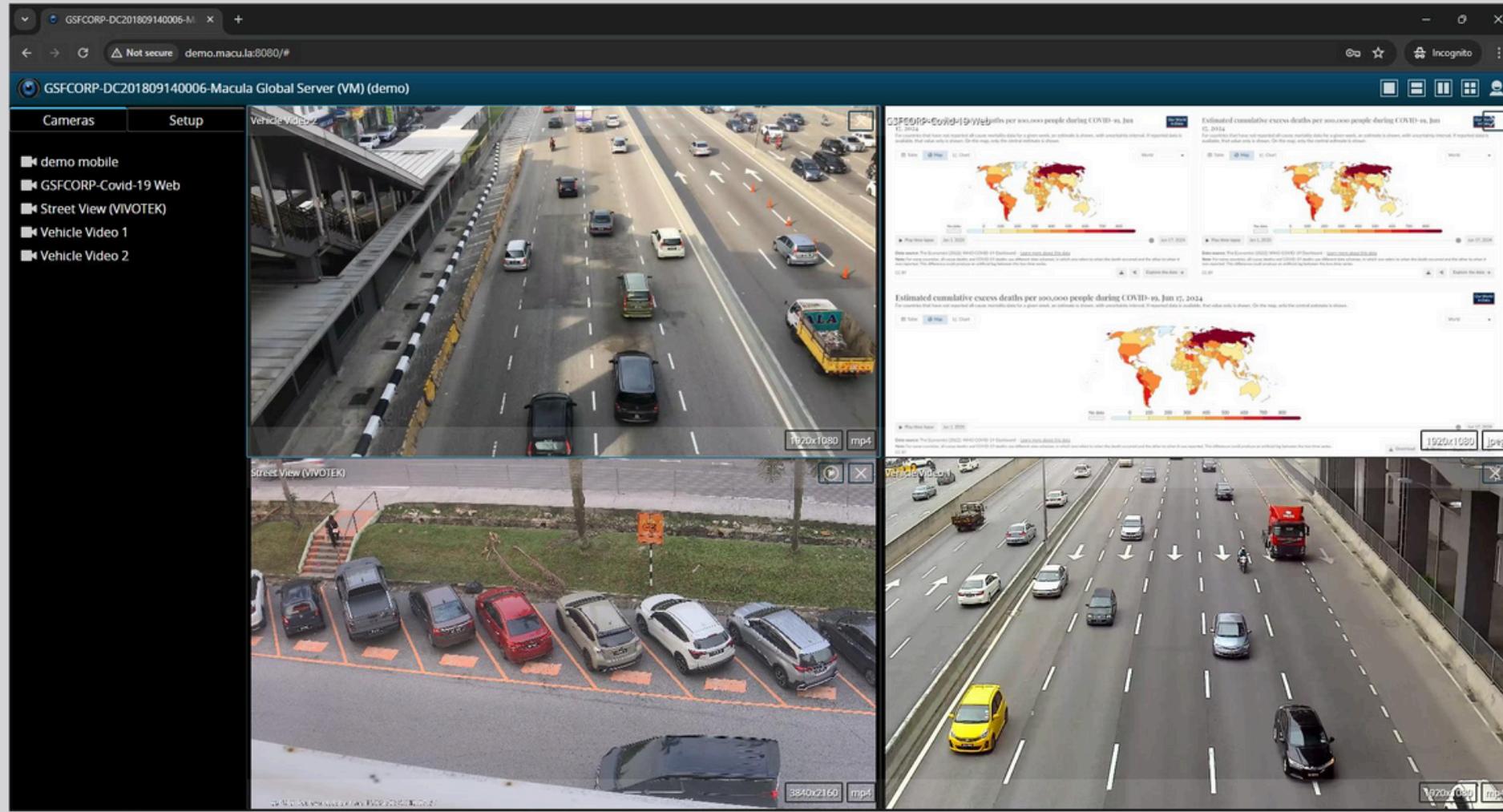
# General Features of Macula Professional

• Specify your desired outcome of your video surveillance system's operation. Determine how software reacts to any event caught on camera and how it turns them into an automated process.

• Send emails, activate DI/DO, interact with any other software or just bring the attention of the operator to the camera that requires their immediate action.

• The functionality can be used not just for a single event, but a set of sequenced events to get rid of false alarms and improve the efficiency of your surveillance system.
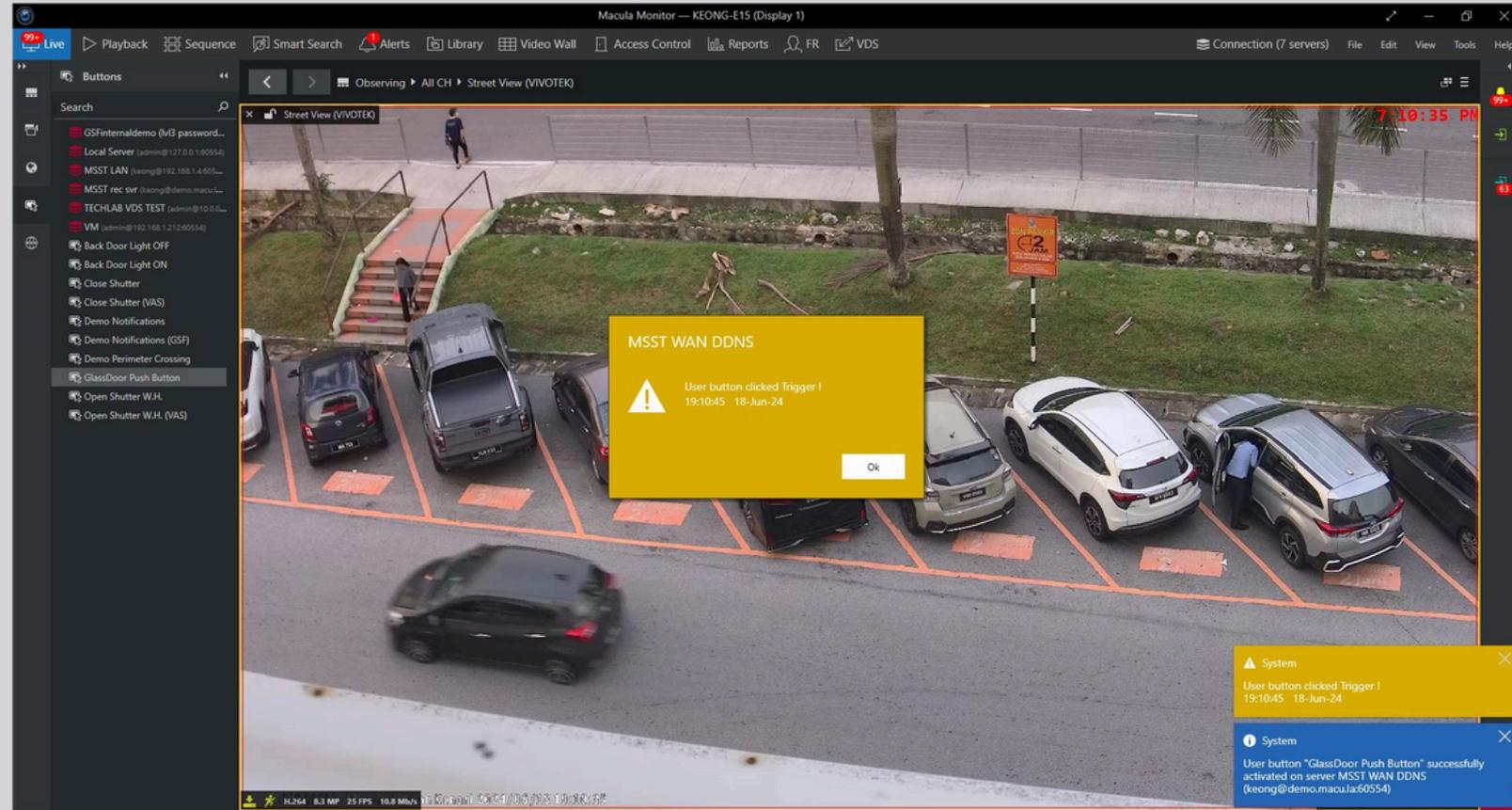
# General Features of Macula Enterprise

## Centralized Managed Effective and Efficient in Operation

Single login, multiple managed,make management of large-scale surveillance much more effective, and easier to maintain. For example, you required to change a user account password, you only changed once at central server, and it will automatically be synced to all servers. Thus, saving on human capital cost and expenses. Central server hold all:

- User accounts
- User permission
- All resources like cameras
- Settings
- Configurations
- Security Policy
- Licenses

Central Server

Mobile & Web Clients

R e cording Server 1

R e cording Server 2

www, LAN, WAN

Central Server - Mirror

Video Wall Workstation

Video Wall

Operator Workstation
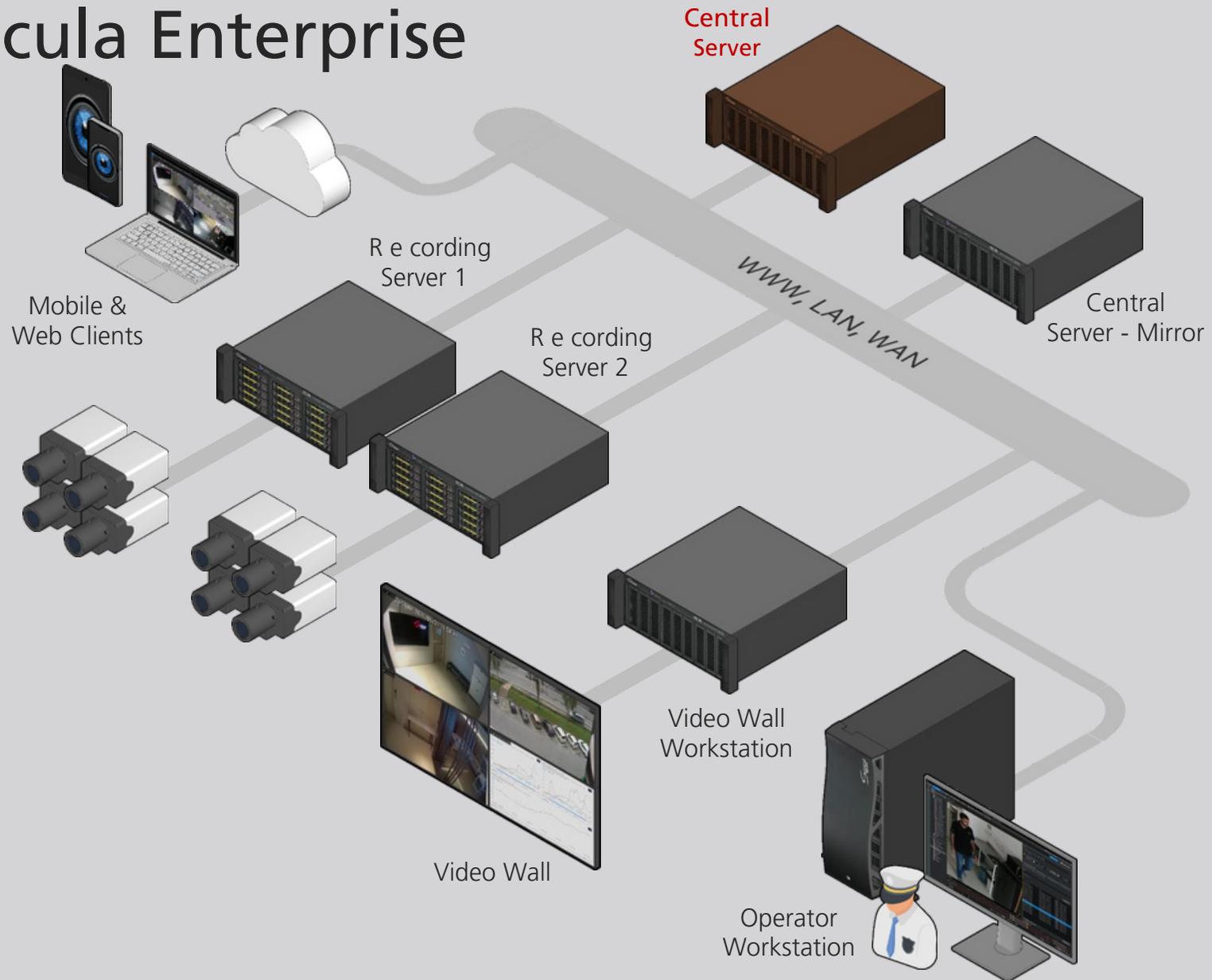
# General Features of Macula Enterprise

Archive replication

- Make your local recording server
- into a buffer server.
  In large enterprises, this allows for convenient local usage and scheduled or constant data transfer to Central Data Centre, whenever the network is available.
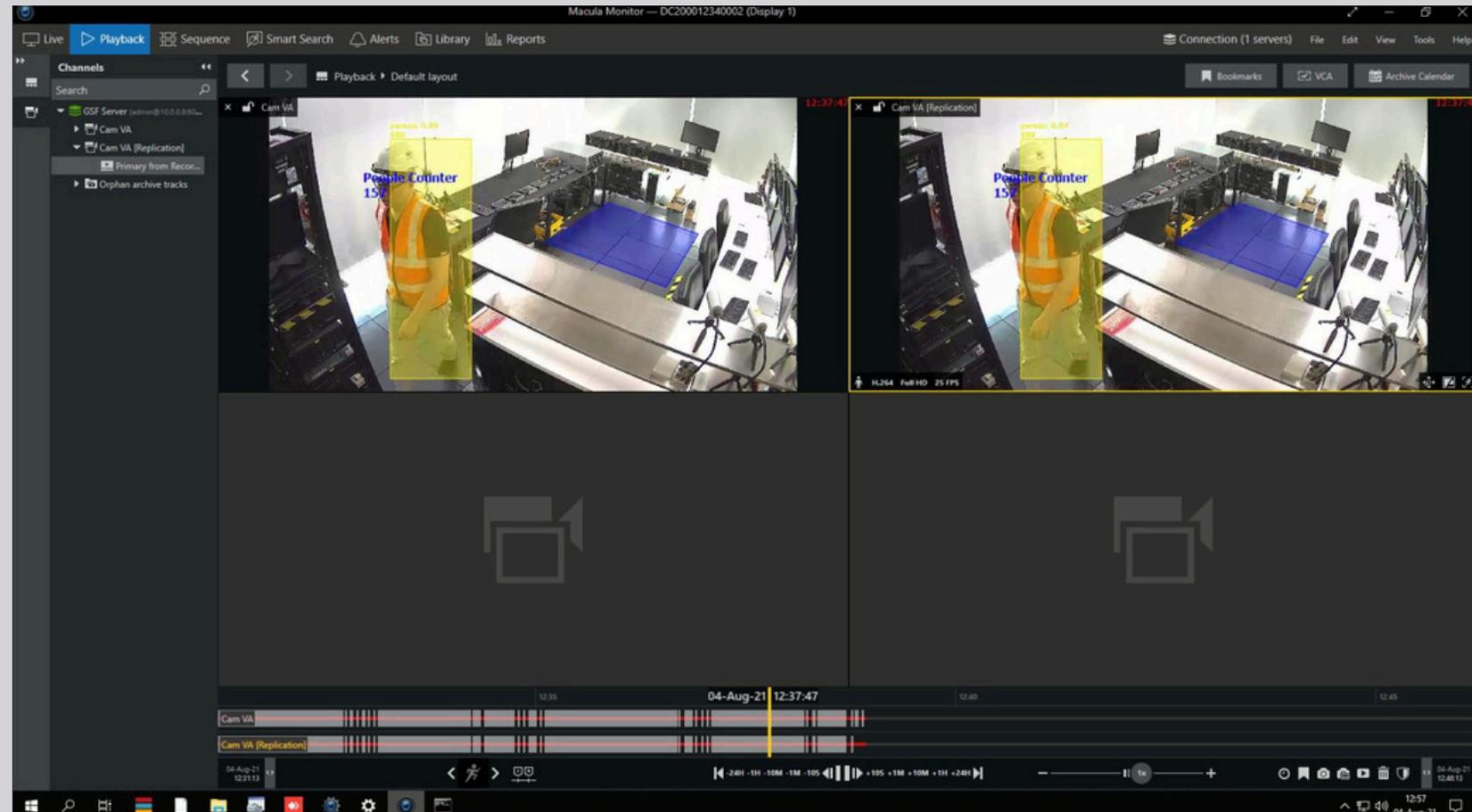
# General Features of Macula Enterprise

Video Wall

• Get the most out of your video wall in the control room.

• Macula Video Wall offers improved configuration and functionality, as well as the ability to easily manage large display installations.

• It is vital for operating large-scale video surveillance systems, especially where the ability to easily examine the area and quickly react to alarm events is essential.
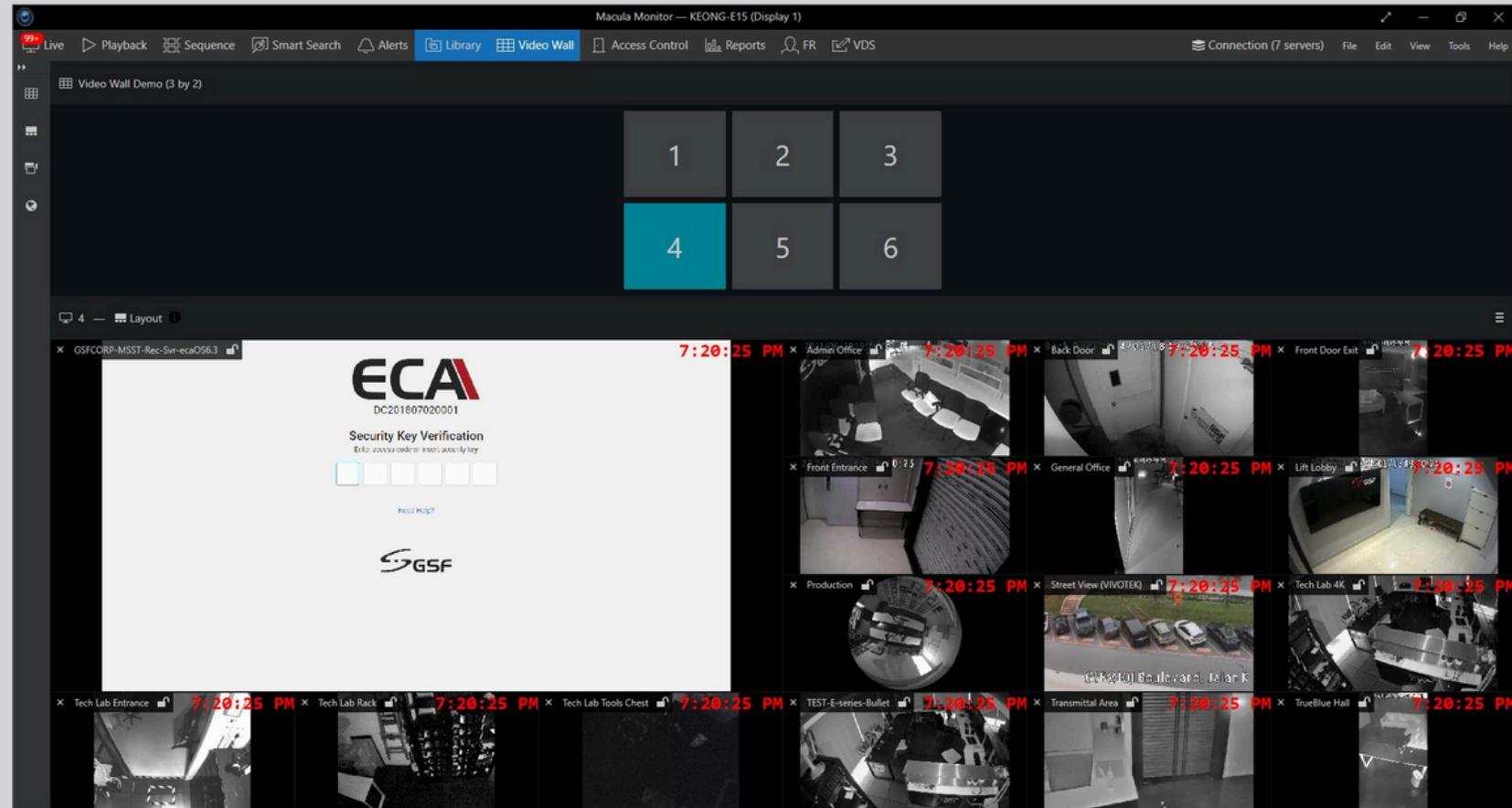
# General Features of Macula Enterprise

Failover

• Automated recovery of your system in the event of a sudden server failure.

• Macula Enterprise carefully tracks operations of all servers, and, in case any of the servers has failed, it quickly activates a spare server to perform the actions that the malfunctioning server was performing prior to failing.
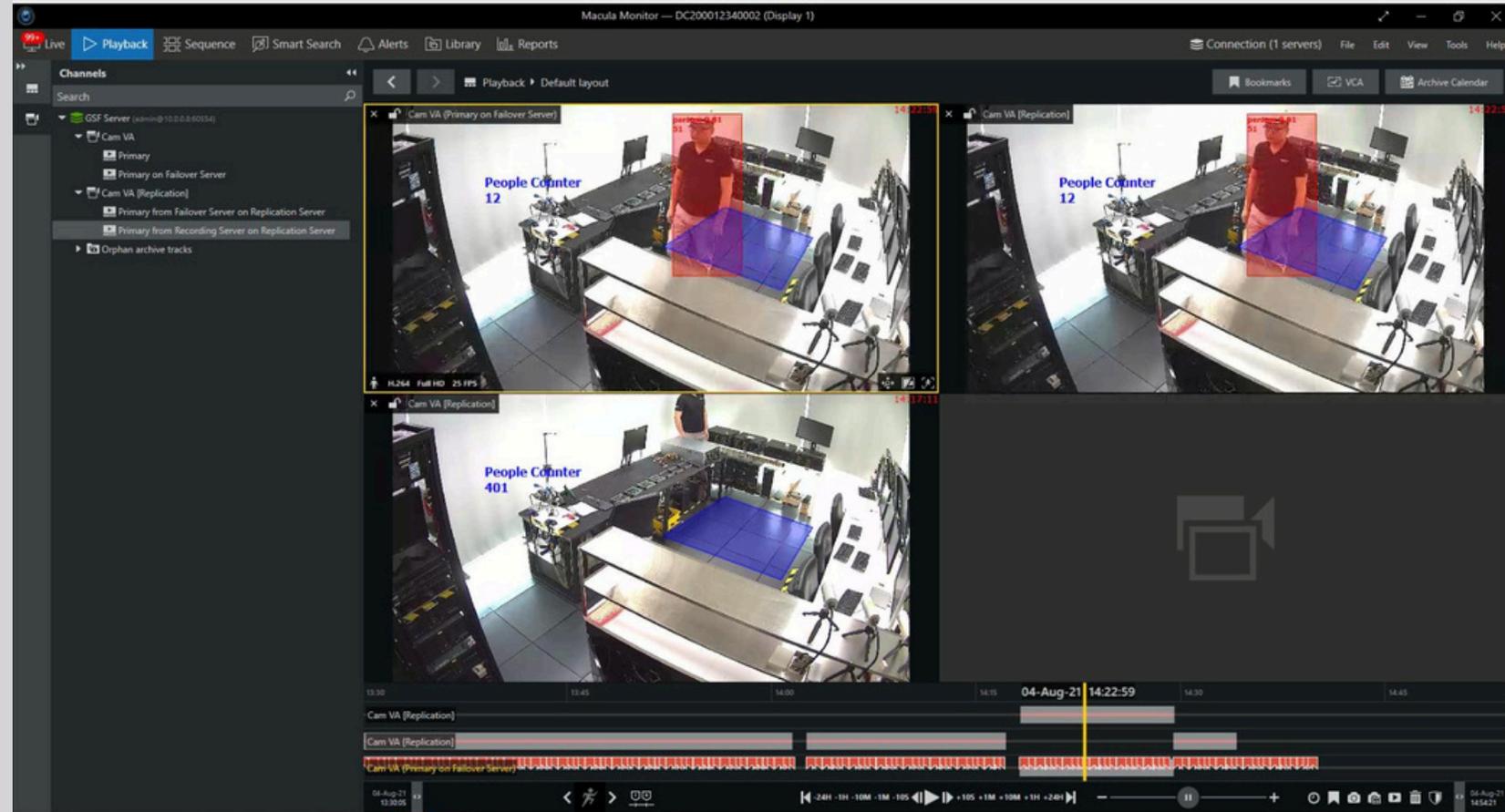
| macula® | PROFESSIONAL<br>Individual Manage | ENTERPRISE<br>Centralized Manage |
|---|---|---|
| Management | Configure each server individually | Configure once at central server, auto sync to all servers |
| Usage | Small scale deployment. 1 or 2 servers | Enterprise scale multi servers multi site |
| Server | Single server | Add multiple servers |
| Users | Multi permission user level (support AD, LDAP) | ← |
| Device connection | Virtually any camera. I/O module. Speaker. Audio. Intercom. Video Files, Picture Files, Web Page, ONVIF, RTSP, Window Desktop. | ← |
| Recording | Multiple recording profile. Continuous, Schedule, motion, or event based. Can record Video, Audio and Data, Web, Desktop | ← |
| User Button | Create any virtual button for automation | ← |
| Layout & Visual Group | Customize video layout and viewports. Create visual group | ← |
| Events & Actions | Create rules, events, actions, condition, schedule, counters, indicator and variable (data). | ← Global Events (for multiple servers' trigger) |
| System Status Monitoring | Status for server, device, video stream, storage, archive statistics. | ← |
| System Audit Log | Servers and user's activity and logs | ← |
| Add an App (Data, Ai and IoT) | Face Recognition, LPR, Access Control, | ← |
| Organization | ✕ | Create organization with different network and user group |
| Failover | ✕ | Rapid Failover. Create Failover Server Cluster. Assign multiple Failover Servers. |
| Video Wall | ✕ | Remotely command any video from workstation to any video wall. Video matrix combiner. Unlimited screen support, and customizable video wall layout. |
| License | Perpetual start from 4CH | Perpetual start from 50CH    Click here for datasheet |

## Experience Start from Pre-Sales

At GSF, we emphasize a goodtrouble-free system design must start from proposing stage. That is why our TrueBlue experience engineer involve since day 1 of meeting customer needs.
We work hand in hand with customer and partner system integrator

**TrueBlue®**
experience

## Best in Class Customer Service

ECA comes with 3yrsNext business dayonsite TrueBlue Care warranty package, and macula with 2 years free software update. Phone, email and remote support comes in default for all GSF products.

**TrueBlue®**
care

## System Maintenance (TBM)

Maintenance plan to ensure your system up running.
- Yearly, quarterly or half yearly maintenance
- plan
- Optional comprehensive part & labor onsite Paired with TrueBlue onsite, phone, email and remote support

**TrueBlue®**
maintenance

## Project Outsource Service (TPS)

System based engineeringserviceoutsourceby project basis. Cover backends system, cameras, network and other 3rd party system. Job scope inclusive:

- System diagram
- System technical information in digital format
- Onsite software configurations and setup
- System performance and optimization
- One session User operation training
- 7 days grace period system performance monitoring
- One month service satisfaction guarantee

## System Testing & Commissioning (TNC)

- Onsite Back End software configuration and setup
- Back End System performance and optimization
- One session system operation training
- 7 days grace period system performance monitoring
- One month service satisfaction guarantee

## Professional Service (TBP)

Pay-per-request basisprofessional support.
- Complex Technical Troubleshooting
- Project based Documentation Service
- Objective based User Training Service

## Pay-per-Request Onsite (TBO)

Pay-per-request basisonsitesupport.
- Objective and incident based

**TrueBlue®**
services

**TrueBlue®**
support

**LTI**
SERVICE EXCELLENCE

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