

SECURITY · SAFETY · COMMUNICATIONS

# Complete Solutions

Eight solutions, one architecture: designed, supplied  
and commissioned as a single working system.

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## **Complete Solutions**

Edition 2026-II · October 2026

Arpyan SMPC · Solution Provider

# A solution provider for security, safety and communications

Arpyan is a technology solution provider for security, safety and communications. We design complete systems, supply them from leading manufacturers, and configure and commission them into one working whole. With 35 years of experience, edge-technology international partners and a capable local integration network, we secure successful implementation and long-term operation.

## WHERE WE STAND

### 35

years of experience in security and communication technology

### 100+

large projects implemented by Arpyan and GENTEC-CSW

### 15–25

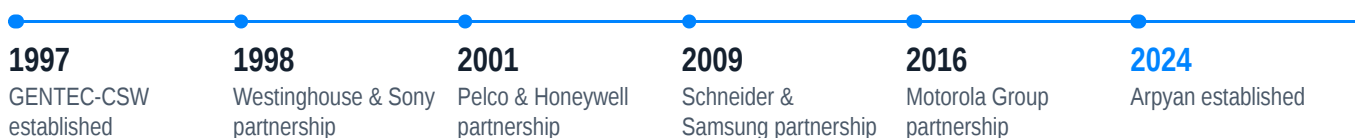
years of continuous operation achieved by our solutions

### 5 yr

manufacturer warranties on our systems and components

## OUR HISTORY

Arpyan was established at the end of 2024, absorbing the operations and heritage of GENTEC-CSW, a large system integrator active since 1997. By renewing the operating model and market approach we are positioned to become a major enterprise-technology provider in Greece.



## OUR ROLE

As a Solution Provider we take responsibility for the solution as a whole: the design, the choice of technology, the configuration and the result in operation. Three kinds of partners make that possible.

### The customers

Our most important partners. We analyse their needs and propose effective, long-lasting solutions that meet expectations and repay the investment over time.

### The manufacturers

They provide the systems and technology we bring to projects. We keep long-standing, honest relationships with makers of reliable, high-performance systems.

### The integrators

A well-trained network of companies and professionals who implement our solutions, covering projects of any size, at home or abroad.

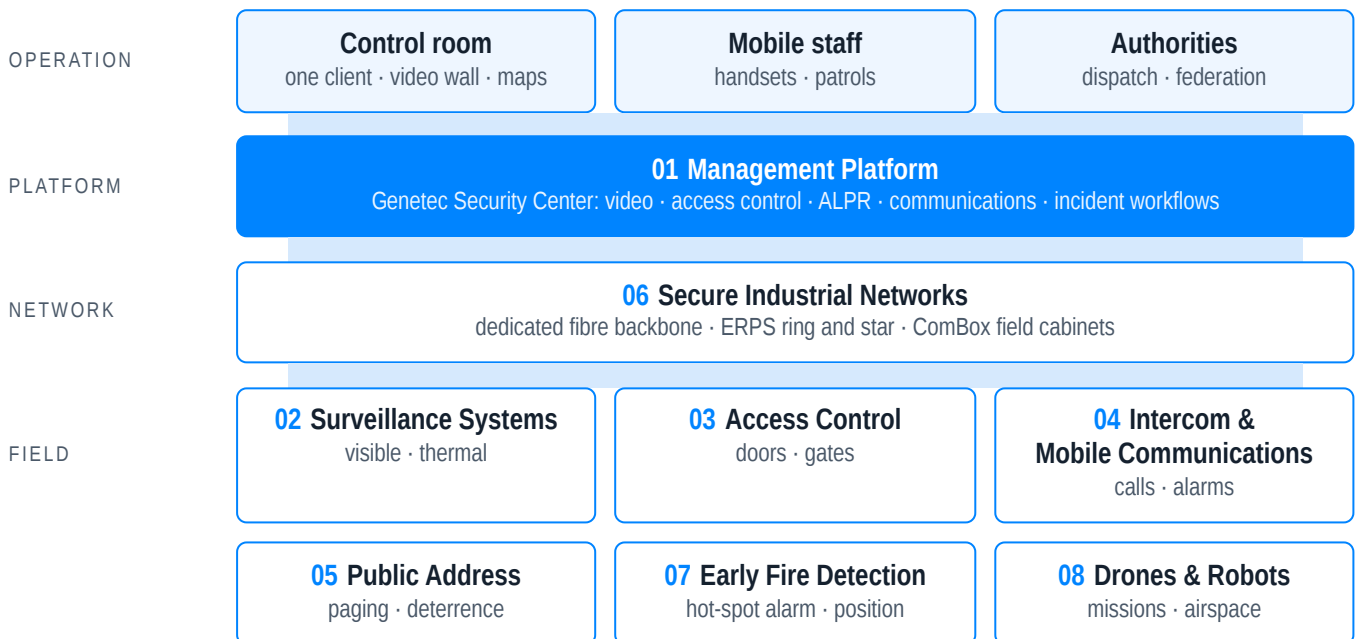
## WHERE OUR SOLUTIONS WORK



# Eight solutions, one architecture

Our solutions are not separate systems placed side by side. Each one is a layer of the same architecture: field devices on a dedicated network, managed by one open platform and operated from one screen. A site can start with any of them and add the others without replacing what is in place.

## HOW THE SOLUTIONS FIT TOGETHER



## PRINCIPLES WE DESIGN BY

### One platform

Video, access, plates, communications, fire alarms and drones are operated in Genetec Security Center, with one map, one alarm list and one audit trail.

### Open architecture

Devices are selected per task from several manufacturers and connected with open standards, so the system is never locked to one supplier.

### Design before products

Every solution starts from operational requirements and a calculated design: coverage, capacity, redundancy and response.

### A network of its own

Security devices run on a dedicated, redundant fibre network, separated from IT and built for outdoor conditions.

### Secure by design

Encrypted communications from the credential and the camera to the server, with hardened devices and controlled user privileges.

### Built to last

Industrial-grade equipment, manufacturer warranties and a documented configuration keep the system in service for many years.

## HOW ARPYAN DELIVERS

### 1 Design

Requirements, coverage and architecture studies, specifications and bills of quantities.

### 2 Supply

Equipment, software and licences from the manufacturers, with their full warranty.

### 3 Commission

Platform configuration, guidance of the installer on site, testing and hand-over.

### 4 Support

Operator and administrator training, documentation and ongoing technical support.

UNIFIED SECURITY MANAGEMENT

# Management Platform

One platform for video, access control, plate recognition and communications.

BUILT ON

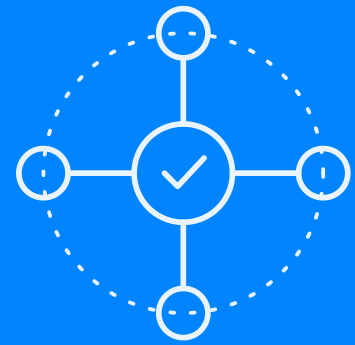
Genetec Security Center

Omnicast

Synergis

AutoVu

Sipelia



Arpyan builds its solutions on Genetec Security Center, an open-architecture platform that brings every security system of a site into one operator interface: one map, one alarm list, one set of reports. As an official Genetec solution provider, we design, configure and commission the platform around the way your control room actually works.

## 4 in 1

Video, access control, ALPR and SIP communications in a single platform

## Open

Works with cameras, controllers, readers and intercoms from many manufacturers

## 1 to n sites

From a single server to federated multi-site operations

### WHAT IT DELIVERS

#### Unified operation

Operators handle video, doors, plates and calls from one client. An event in one system brings up the related cameras, cardholder and map position.

#### Open architecture

Devices are chosen for the job, not dictated by the software. Existing equipment can often be kept and new technology added later.

#### Scales with the project

Start with one building and grow to a campus or a national network. Federation joins independent systems into one supervised view.

#### Built to stay up

Directory failover, redundant archiving and health monitoring keep the system running and warn you before a fault becomes an outage.

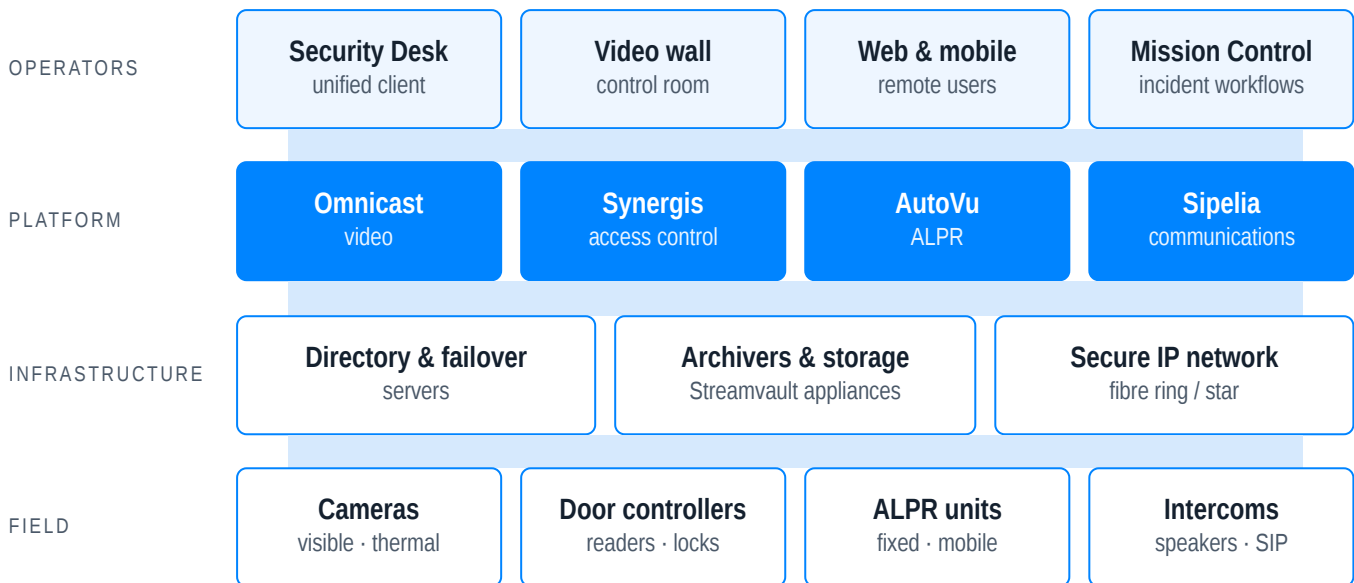
#### Secure by design

Encrypted communications, strong authentication and detailed user privileges, with privacy tools such as dynamic masking of people in video.

#### Guided response

Event-to-action rules, threat levels and Mission Control workflows lead operators through each incident with consistent, documented steps.

## SOLUTION ARCHITECTURE



## PLATFORM MODULES

|                                            |                                                                                                                |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Omnicast</b><br>Video management        | Live view, playback and archiving for multi-vendor cameras, with analytics, privacy masking and redundancy.    |
| <b>Synergis</b><br>Access control          | Cardholders, doors, schedules and rules on open controller hardware, with every door event linked to video.    |
| <b>AutoVu</b><br>Plate recognition         | Fixed and mobile ALPR for vehicle gates, parking and hotlist alerts, matched against permits and cardholders.  |
| <b>Sipelia</b><br>Communications           | SIP calls between operators, intercoms and phones, paging to speakers and trunks to the site telephone system. |
| <b>Mission Control</b><br>Decision support | Qualifies incoming events into incidents and guides the operator through approved procedures.                  |
| <b>Plan Manager</b><br>Interactive maps    | Site plans and GIS maps showing devices, alarms and live status, with direct control from the map.             |

## TYPICAL APPLICATIONS

- Critical infrastructure
- Transport hubs and stadiums
- Retail and mixed-use developments
- Cultural heritage sites
- Government and justice facilities
- Resorts and hospitality
- Industry and energy

### COMBINES WITH

Surveillance · Access Control · Intercom · Public Address · Early Fire Detection · Drones & Robots

## IN OPERATION: ONE EVENT, ONE RESPONSE

### 1 Detect

A door, camera, plate reader or intercom raises an event in Security Center.

### 2 Present

The related cameras, cardholder and map position come up for the operator.

### 3 Respond

Event-to-action rules and Mission Control procedures guide each step.

### 4 Report

Actions, video and decisions are logged for review and audit.

VISIBLE AND THERMAL VIDEO

# Surveillance Systems

The right camera for every view: visible, thermal, multi-sensor and multifocal.

BUILT ON

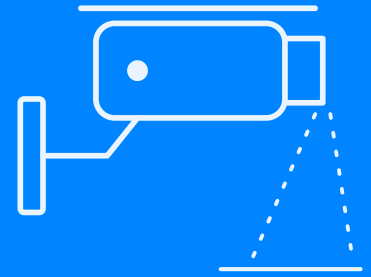
Hanwha Vision

Dallmeier

Vivotek

Raythink

Genetec Omnicast



A surveillance system is only as good as its coverage design. Arpyan starts from what the operator must be able to detect, recognise or identify at each point, checks it against the terrain and the lighting, and then selects the camera technology that delivers it with the fewest mounting points and the lowest lifetime cost.

## DORI

Coverage designed to EN 62676-4 pixel densities: 25 · 62 · 125 · 250 px/m

## 24 / 7

Visible and thermal imaging for darkness, smoke, fog and glare

## Edge AI

People and vehicles classified in the camera, not just motion

### WHAT IT DELIVERS

#### Designed coverage

Camera positions, lenses and heights are calculated per target and verified against terrain, so the image quality promised on paper is delivered on site.

#### Sees when light fails

Bi-spectral cameras pair a thermal sensor with a visible one: reliable detection at night and a clear picture for verification.

#### Fewer false alarms

Deep-learning analytics separate people and vehicles from animals, vegetation and weather, so operators react to real events.

#### Fewer poles, more detail

Multi-sensor and multifocal systems cover wide areas from one position while keeping usable resolution at long distance.

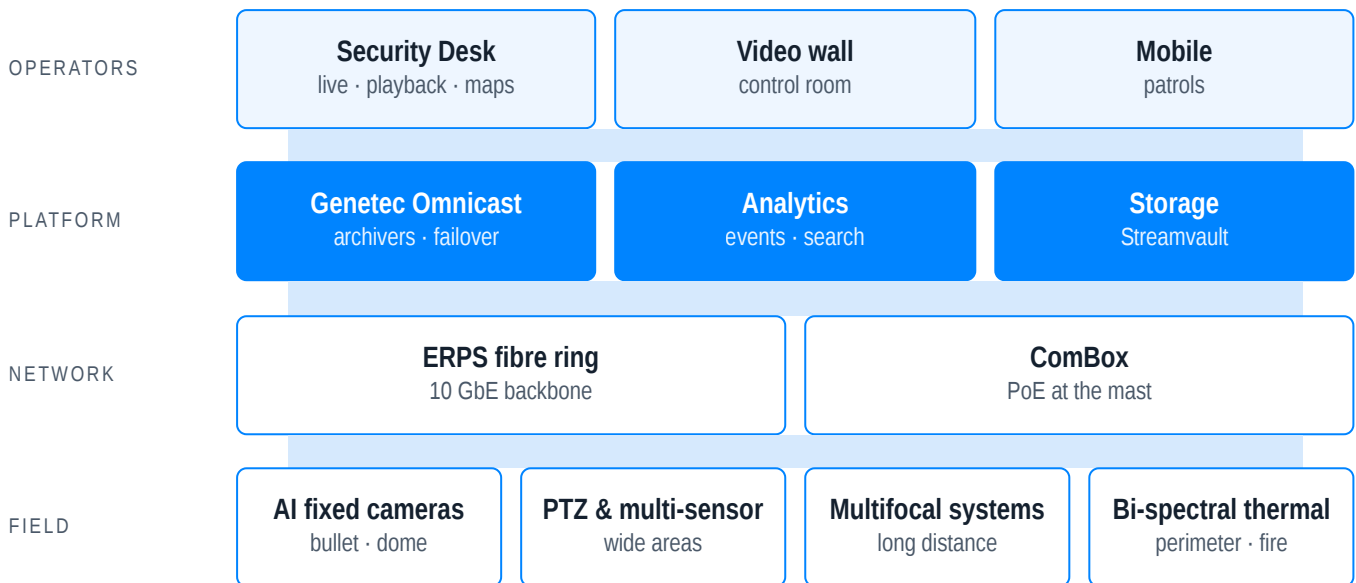
#### Evidence you can rely on

Redundant archiving, edge storage that bridges network interruptions and controlled export with full audit trail.

#### Early fire detection

Radiometric thermal cameras measure temperature across the scene and raise an alarm before smoke or flame is visible.

## SOLUTION ARCHITECTURE



## TECHNOLOGY BUILDING BLOCKS

### Hanwha Vision

AI cameras

Fixed, PTZ, multi-sensor and multi-directional cameras with on-board classification of people and vehicles and device-level cybersecurity.

### Dallmeier

Multifocal sensor systems

Panomera combines lenses of different focal lengths in one unit: even resolution over the whole depth of a large area, recorded in full while operators zoom independently.

### Vivotek

AI and bi-spectral cameras

A broad range of deep-learning cameras, including bi-spectral bullets (TB9333-E) that combine thermal detection with a visible image.

### Raythink

Thermal imaging

Thermal and dual-spectrum cameras (FC series) with temperature measurement for perimeter protection and early fire detection.

### Genetec Omnicast

Recording and management

Open video management that records and presents all of the above in one interface, unified with access control and alarms.

## TYPICAL APPLICATIONS

- Perimeters and open terrain
- Estates, parks and heritage sites
- Stadiums and public spaces
- Shopping centres
- Logistics and industry
- Justice and correctional facilities
- Forest and wildfire watch

### COMBINES WITH

Management Platform ·  
Early Fire Detection ·  
Drones & Robots ·  
Industrial Networks

## FROM DESIGN TO EVIDENCE

### 1 Define

What must be detected, recognised or identified at each point of the site.

### 2 Cover

Positions, lenses and heights are calculated and verified against the terrain.

### 3 Detect

Edge analytics classify people and vehicles and alert the operator.

### 4 Prove

Redundant recording and controlled export with a full audit trail.

## PHYSICAL ACCESS MANAGEMENT

# Access Control

Open, encrypted and unified with video,  
from the credential to the control room.

BUILT ON

Genetec Synergis

Mercury

HID

STid

Axis



Arpyan access control solutions are built on Genetec Synergis and non-proprietary hardware. Controllers, readers and credentials are selected from leading manufacturers and connected with encrypted, standards-based protocols, so the system stays secure, can be extended by any qualified party and is never locked to a single supplier.

## OSDP

Supervised, encrypted reader communication with Secure Channel

## Mobile

Smartphone and wallet credentials alongside secure cards

## Open

Non-proprietary controllers protect the investment

### WHAT IT DELIVERS

#### Unified with video

Every door event is tied to its cameras. Operators verify a forced door or a denied badge with live and recorded video in one click.

#### Encrypted end to end

Secure credentials, OSDP Secure Channel between reader and controller and encrypted links to the server close the classic cloning and wire-tapping gaps.

#### Open hardware

Mercury and Axis controllers are supported by many platforms, so hardware keeps its value and can be serviced by more than one company.

#### Doors keep deciding

Intelligent controllers hold cardholders and rules locally and keep working if the network or the server is unavailable.

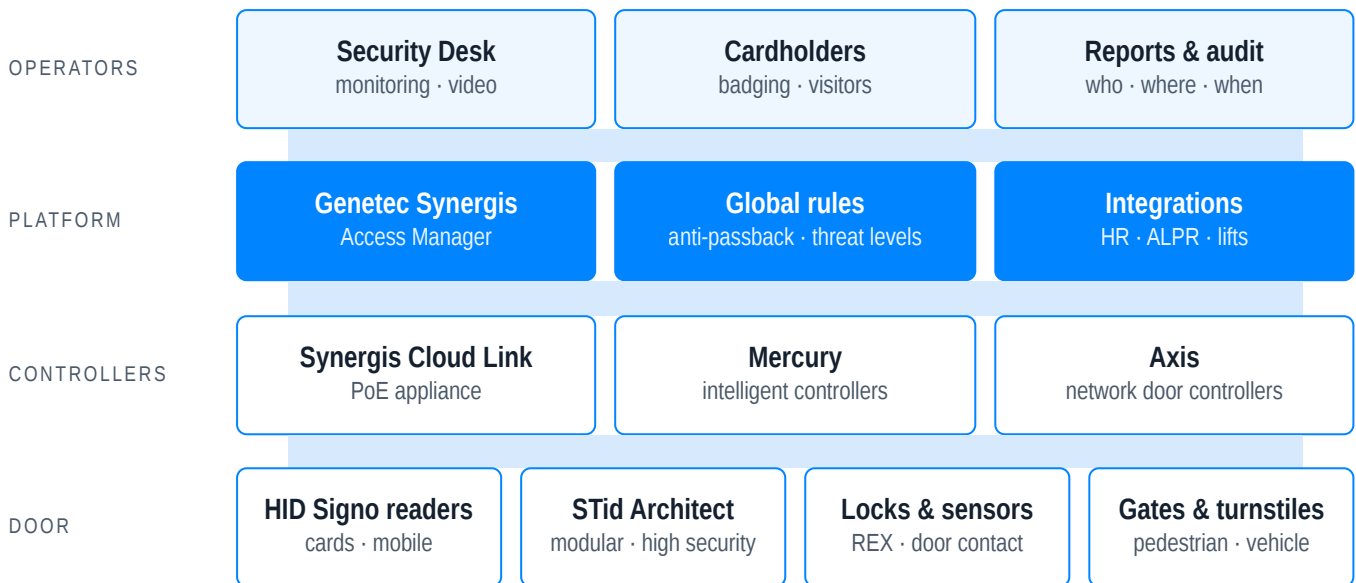
#### Cards, phones and more

Smart cards, mobile credentials, PIN, QR codes for visitors, biometrics and long-range tags for vehicles on the same system.

#### Rules for the whole site

Anti-passback, interlocks, escorted access, threat levels and visitor workflows applied consistently across buildings and sites.

## SOLUTION ARCHITECTURE



## TECHNOLOGY BUILDING BLOCKS

|                                                    |                                                                                                                                                   |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Genetec Synergis</b><br>Access control software | Cardholders, credentials, doors, lifts and zones managed in Security Center, with Synergis Cloud Link as the secure gateway to the door hardware. |
| <b>Mercury</b><br>Intelligent controllers          | The open controller platform of the industry: door, input and output modules for anything from a single door to thousands.                        |
| <b>HID</b><br>Readers and credentials              | Signo readers, Seos and DESFire credentials and HID Mobile Access for smartphones and digital wallets.                                            |
| <b>STid</b><br>High-security readers               | Architect modular readers (RFID, NFC, Bluetooth, keypad, QR, biometrics), STid Mobile ID and SPECTRE long-range vehicle identification.           |
| <b>Axis</b><br>Edge door controllers               | PoE network door controllers installed at the door, reducing cabling and cabinets, with Axis intercoms and cameras at the same entrance.          |

## TYPICAL APPLICATIONS

- Offices and headquarters
- Stadium gatelines
- Data centres and technical rooms
- Hospitals and laboratories
- Justice and correctional facilities
- Industrial sites
- Vehicle gates and parking

### COMBINES WITH

Management Platform · Intercom · Surveillance

## AT THE DOOR

### 1 Present

Card, phone, PIN, QR code or vehicle tag is read over an encrypted channel.

### 2 Decide

The controller applies the rules locally, even if the server is unreachable.

### 3 Verify

The event appears in Security Desk with live and recorded video of the door.

### 4 Audit

Every access, denial and alarm is reported: who, where and when.

UNIFIED SECURITY COMMUNICATIONS

# Intercom & Mobile Communications



Every call answered with video, every alarm delivered to the right person.

BUILT ON

Genetec Sipelia

2N

Hanwha Vision

Vivotek

Tonmind

Ascom

Communication is part of security. Arpyan connects door intercoms, help points and staff handsets on one SIP backbone managed in Genetec Security Center, so an operator who answers a call sees the caller, opens the door and logs the event from the same screen, and an alarm reaches mobile staff wherever they are.

## SIP

Open standard: intercoms, phones and PBX from different makers work together

## Video

Each call shows the caller and the cameras around the station

## Mobile

Alarms and messages on staff handsets, with acknowledgement

### WHAT IT DELIVERS

#### One screen for the operator

Calls arrive in Security Desk next to video, doors and maps. No separate intercom console, no second log.

#### Calls with context

The station camera and nearby cameras open with the call, and the door or barrier is released from the same window.

#### Help points that are heard

Vandal-resistant stations with echo cancellation and noise reduction for car parks, platforms, perimeters and lifts.

#### Staff reachable everywhere

DECT, Wi-Fi and smartphone handsets carry voice, text alarms and task messages across the whole site.

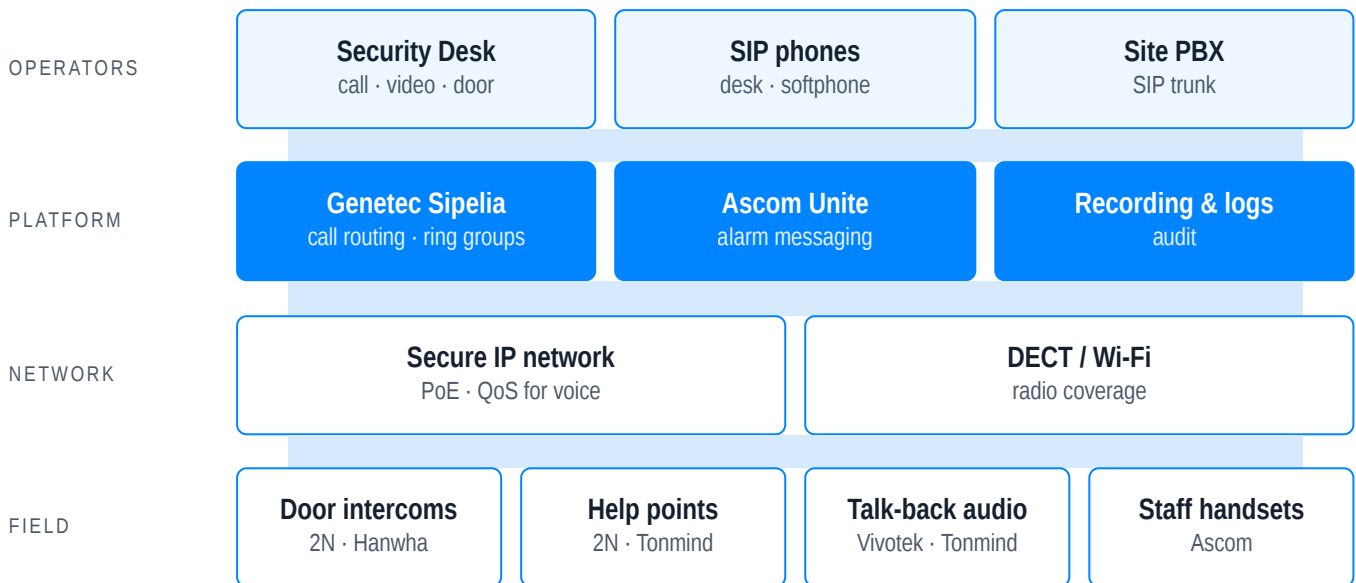
#### Alarms that do not get lost

Events are sent to the responsible person or group; if nobody acknowledges, they escalate automatically.

#### Protection for lone workers

Handsets with push-button, man-down and no-movement alarms report who needs help and where.

## SOLUTION ARCHITECTURE



## TECHNOLOGY BUILDING BLOCKS

|                                               |                                                                                                                                                   |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Genetec Sipelia</b><br>Communications      | SIP server inside Security Center: calls between operators, intercoms and phones, ring groups, call history and video association.                |
| <b>2N</b><br>IP intercoms                     | Video door stations and emergency intercoms with integrated readers (card, Bluetooth, keypad, QR), from design entrances to rugged outdoor units. |
| <b>Hanwha Vision</b><br>Camera-grade intercom | TID-600R station with 2 MP wide-angle camera, touchless call, SIP 2.0 and IP65 / IK08 housing.                                                    |
| <b>Vivotek</b><br>Audio at the camera         | Cameras with two-way audio and SIP network audio devices add listen and talk-back at camera positions.                                            |
| <b>Tonmind</b><br>SIP intercoms               | Compact SIP intercom panels, paging gateways and speakers for help points and local announcements.                                                |
| <b>Ascom</b><br>Mobile communications         | Myco smartphones, DECT and VoWiFi handsets and the Unite platform for alarm distribution and personal safety.                                     |

## TYPICAL APPLICATIONS

- Building and gate entrances
- Car parks and vehicle barriers
- Emergency and help points
- Hospitals and care
- Justice and correctional facilities
- Industry and logistics
- Hotels and resorts

### COMBINES WITH

Management Platform ·  
Access Control · Public Address

## A CALL, START TO FINISH

### 1 Call

A visitor or member of staff presses the button at a door or help point.

### 2 See

The call opens in Security Desk with the station camera and nearby cameras.

### 3 Act

The operator talks, releases the door or barrier, or alerts mobile staff.

### 4 Log

Call, video and action are recorded in the same event history.

IP AUDIO AND PAGING

# Public Address

Network speakers that inform, guide and deter, zone by zone.

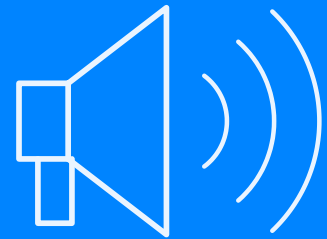
BUILT ON

Hanwha Vision

Vivotek

Tonmind

Genetec Sipelia



Arpyan public address solutions use IP speakers that connect to the same network as the cameras. Each speaker is individually addressable and powered over its network cable, zones are defined in software, and announcements can be live, scheduled or triggered automatically by a security event.

## PoE

One network cable carries power, audio and supervision

## SIP

Paging from the control room, a phone or the telephone system

## Zones

Defined in software and changed without rewiring

### WHAT IT DELIVERS

#### Speak where it matters

Address one speaker, one zone or the whole site. Zones follow the operation, not the cable routes.

#### Automatic deterrence

When analytics detect a person in a closed area, the nearest speaker plays a warning while the operator is alerted.

#### Live, recorded or scheduled

Live paging, stored messages, timed announcements, background music and text-to-speech from the same system.

#### Always supervised

Every speaker reports its status on the network, so a failed unit is known at once instead of being discovered when it is needed.

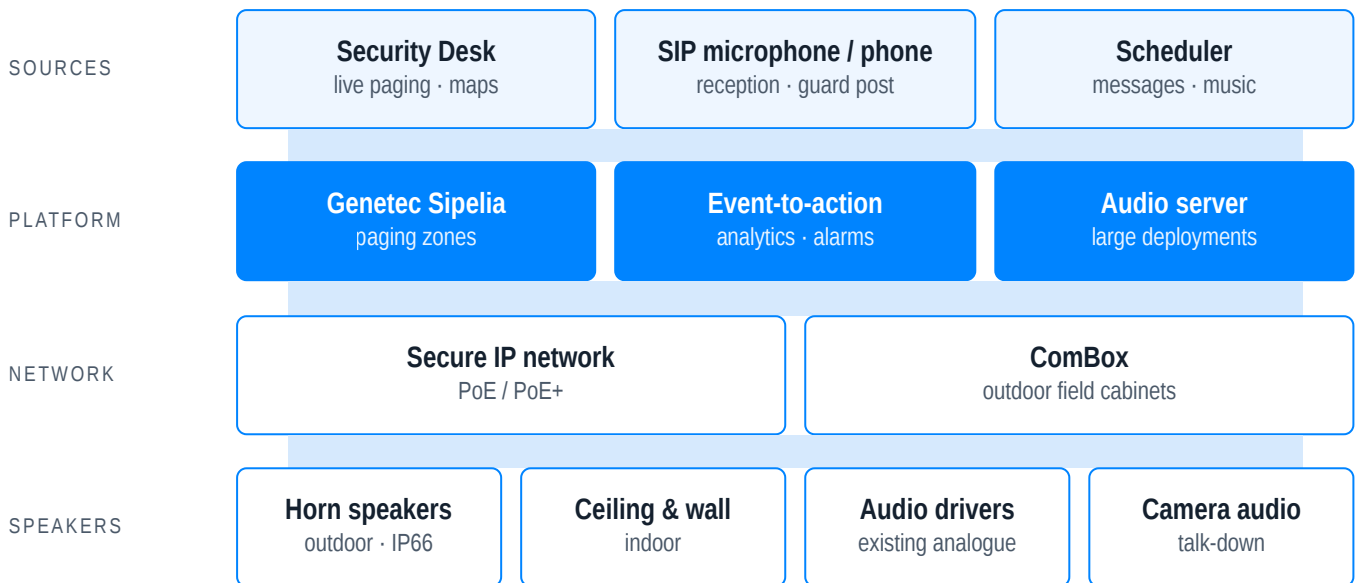
#### Simple to extend

A new speaker needs a PoE port, nothing more. No amplifiers, racks or 100 V lines to resize.

#### Keeps what you have

Network audio drivers and gateways bring existing analogue speakers and amplifiers onto the IP system.

## SOLUTION ARCHITECTURE



## TECHNOLOGY BUILDING BLOCKS

|                                                                 |                                                                                                                                             |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hanwha Vision</b><br><a href="#">Network audio range</a>     | Horn, ceiling and wall speakers, SIP microphone, audio module for analogue speakers and audio server for large groups, with text-to-speech. |
| <b>Vivotek</b><br><a href="#">Horn speaker and driver</a>       | AU-001 metal horn speaker (106 dB, IP66) and AU-002 driver with 20 W amplifier that turns an analogue speaker into a network one.           |
| <b>Tonmind</b><br><a href="#">SIP speakers and gateways</a>     | PoE horn, ceiling and wall speakers, paging gateways and amplifiers with SIP and ONVIF for cost-effective coverage of large sites.          |
| <b>Genetec Sipelia</b><br><a href="#">Paging and automation</a> | Paging to speakers and zones from Security Desk, and automatic messages triggered by cameras, doors and alarms.                             |

Scope note: these systems serve operational and security announcements. Where a certified voice-alarm system (EN 54-16 / EN 54-24) is required for fire evacuation, we interface with it rather than replace it.

## TYPICAL APPLICATIONS

- Perimeters and fence lines
- Parks, estates and heritage sites
- Car parks and logistics yards
- Stadium surroundings
- Schools and campuses
- Industrial plants
- Retail and public buildings

### COMBINES WITH

Surveillance · Intercom ·  
Management Platform ·  
Industrial Networks

## FROM EVENT TO ANNOUNCEMENT

### 1 Trigger

An operator, a schedule or a security event starts the announcement.

### 2 Select

One speaker, one zone or the whole site is addressed in software.

### 3 Announce

Live voice, a stored message or text-to-speech is played.

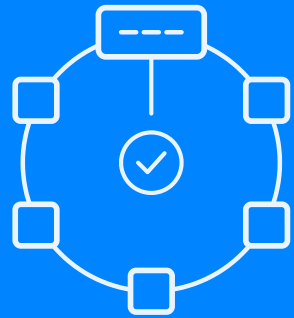
### 4 Supervise

Each speaker reports its status, so a failure is known at once.

## NETWORK INFRASTRUCTURE

# Secure Industrial Networks

A dedicated, redundant fibre backbone that keeps every field device online.



BUILT ON

Maisvch

ERPS ring

Star topology

Arpyan ComBox

10 GbE SFP+

Cameras, speakers and controllers are only as available as the network behind them. Arpyan designs dedicated security networks with Maisvch industrial switches in star and ERPS ring configurations, and delivers them with the ComBox, a pre-engineered field cabinet that brings fibre, PoE and protected power to each mast or building.

## < 50 ms

Ring recovery with ERPS (ITU-T G.8032) after a fibre or node failure

## 10 GbE

SFP+ backbone with capacity for high-resolution video

## -40 ... +75 °C

Fanless industrial switches for outdoor cabinets

### WHAT IT DELIVERS

#### No single point of failure

In a ring every node has two paths to the core. A cut fibre or a failed cabinet does not disconnect the rest.

#### Recovery nobody notices

ERPS reroutes traffic in under 50 milliseconds, so video streams and recordings continue without operator action.

#### Built for the field

Fanless switches in aluminium housings with wide temperature range and redundant power inputs, made for unconditioned cabinets.

#### Economical with fibre

Bidirectional SFP+ modules run each 10 GbE link on a single fibre, halving the cores needed on long routes.

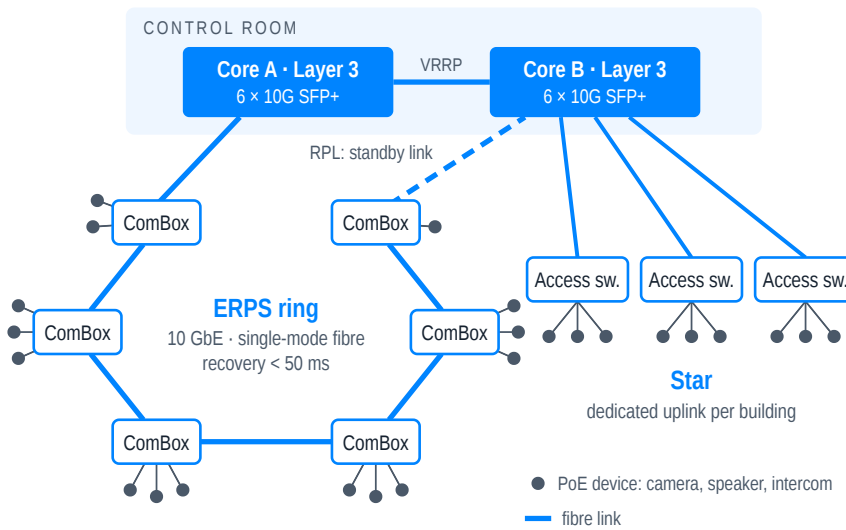
#### Hardened and separated

A dedicated network with VLAN segmentation, 802.1X, access lists and encrypted management keeps it apart from IT and from intruders.

#### Monitored end to end

SNMP and optical diagnostics report switch, link and transceiver health before users see a fault.

## TOPOLOGY: RING, STAR OR BOTH



### ERPS ring

For chains of masts and cabinets along a perimeter or route. Each ComBox connects to its two neighbours and the ring closes on the core. Best resilience per metre of fibre.

### Star

For buildings and clusters near the control room. Each access switch has its own uplink to the core, single or dual. Simple, with full bandwidth per branch.

### Combined

Large sites use both: rings for the outdoor field, stars inside buildings, joined at a redundant Layer 3 core.

## BUILDING BLOCKS

### Maisvch MISCOM8030GX Layer 3 core switch

6 × 10G SFP+, 16 × Gigabit SFP and 8 × Gigabit combo ports in a fanless 1U unit. ERPS, OSPF, VRRP, 802.1X and ACL; redundant power; −40 to +75 °C.

### Maisvch managed switches Ring and access nodes

DIN-rail Layer 2 / Layer 3 switches with 10G or Gigabit fibre uplinks and PoE ports for cameras, speakers and intercoms.

### Arpyan ComBox Field cabinet

Outdoor enclosure delivered assembled and tested: industrial PoE switch, fibre termination, power supply and surge protection for the devices of one mast.

### SFP+ optics Fibre links

Single-mode 10G transceivers, including bidirectional (BiDi) pairs for single-fibre links, with digital diagnostics.

Reference design: developed for a large heritage estate with open terrain: two 10 GbE ERPS rings on single-mode fibre, a ComBox at every camera mast and a redundant pair of MISCOM8030GX core switches.

## TYPICAL APPLICATIONS

- Perimeter and estate surveillance
- Parks and heritage sites
- Stadiums and campuses
- Ports, roads and transport
- Energy and utilities
- Industrial plants

### COMBINES WITH

Surveillance · Public Address ·  
Early Fire Detection ·  
Management Platform

## WHEN A FIBRE IS CUT

### 1 Normal

Traffic flows around the ring while the standby link (RPL) stays blocked.

### 2 Failure

A fibre is cut or a field cabinet loses power.

### 3 Recover

ERPS opens the standby link and reroutes traffic in under 50 ms.

### 4 Report

SNMP alarms identify the failed link while video continues.

THERMAL AND VISUAL EARLY FIRE DETECTION

# Early Fire Detection

Detecting ignition, not consequences: forest, grassland and wildland–urban interface protection.



BUILT ON

Raythink thermal imaging

Genetec Security Center

ERPS fibre ring

Arpyan ComBox

Cobolos EFD is the Arpyan early fire detection solution. Long-range dual-spectrum cameras and panoramic thermal radars from Raythink run fire and smoke analytics on board, locate the hot spot on the map and deliver the alarm into Genetec Security Center with snapshot and video, so the operator can verify and dispatch within moments of ignition.

## 10 km+

Maximum fire detection range; highly effective detection at 4.2 km

## 1.5 px

Minimum fire spot: alarm in the ignition phase, before a plume is visible

## 360° / 2 s

Full panoramic thermal scan, covering 314 km² from a single mast

### WHAT IT DELIVERS

#### Alarm at ignition

A high-precision fire algorithm raises an alarm on a hot spot of as few as 1.5 pixels, minutes before smoke rises above the canopy.

#### Dual-spectrum, day and night

The visible channel detects smoke and the thermal channel detects heat. Together they hold performance through night, fog, snow and glare.

#### Analytics on the camera

Fire and smoke algorithms run at the edge with local recording. No separate analytics server is needed at each site.

#### A position, not just a picture

PTZ orientation, gyro and GPS resolve the hot spot to map coordinates in real time, without operator triangulation.

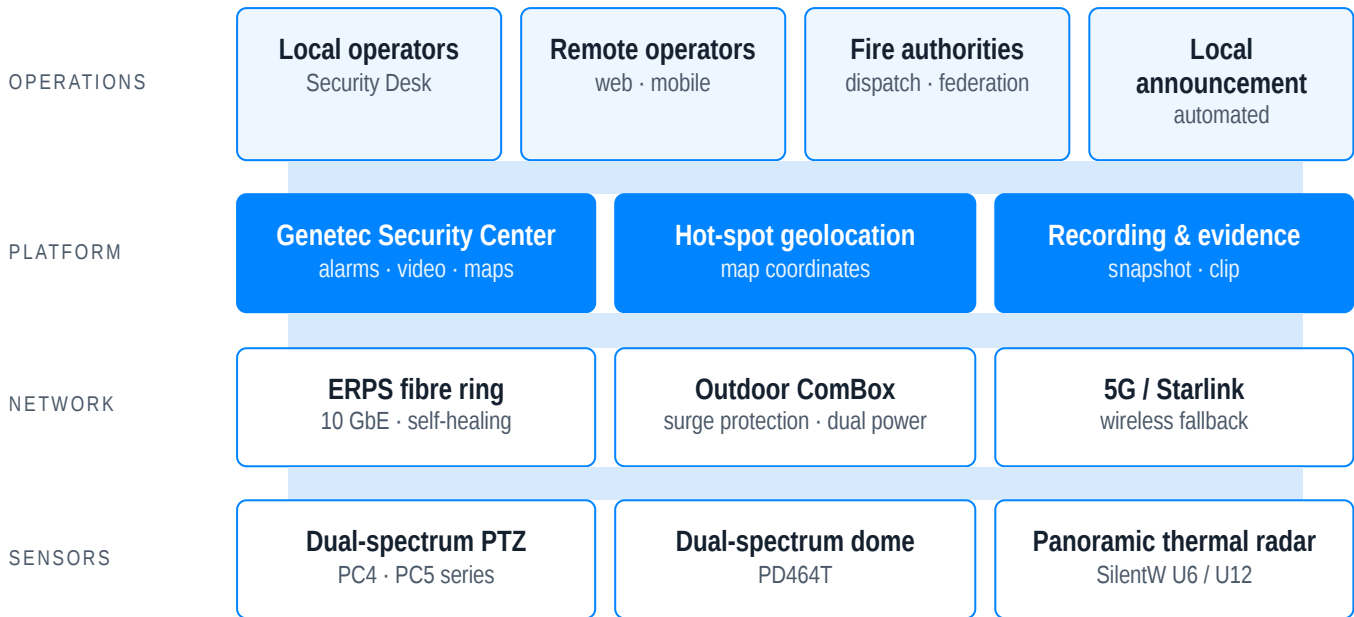
#### Verified in one view

The head centres on the alarm, zooms and follows it, and video fusion blends visual and infrared for a clear yes or no.

#### One mast, a whole landscape

A panoramic thermal radar gives a continuous 360° image and can replace up to 70 fixed cameras, with PTZ added for close inspection.

## SOLUTION ARCHITECTURE



## SENSOR LINE-UP

### PC4 Series

Dual-spectrum PTZ

Thermal 640×512 or 1280×1024, visible 2688×1520 with 60× zoom, motorised thermal optics to 100 mm. The mid-to-long-range workhorse, with smoke and fire algorithm.

### PC5 Series

Multi-spectrum PTZ

Thermal optics 30–150 mm, visible zoom up to 10–550 mm. Long-range sector cover, with optional 3 km laser rangefinder and 1500 m illuminator.

### PD464T

Dual-spectrum dome

640×512 thermal, 2560×1440 visible with 37× zoom. Fire detection to 6.7 km (50 mm lens); radiometric –20 to +550 °C, ±2 °C.

### SilentW U6 / U12

Panoramic thermal radar

360° in about 2 seconds, up to 128 targets tracked. Fire detection to 10 km (75 mm lens), 314 km² per unit.

Common to all: uncooled VOx detector, 12 µm, NETD ≤ 40 mK · IP66 · –40 to +70 °C · ONVIF, HTTP API and SDK. Detection ranges depend on target size, atmospheric conditions and installation geometry.

## TYPICAL APPLICATIONS

- Forests
- Grassland and open terrain
- Wildland–urban interface
- Resorts and private estates
- Parks and heritage sites
- Municipal and regional fire watch

### COMBINES WITH

Surveillance · Industrial Networks · Public Address · Drones & Robots

## FROM IGNITION TO DISPATCH

### 1 Detect

The thermal channel flags a hot spot; the visual channel confirms smoke. Both run continuously on the camera.

### 2 Geolocate

PTZ orientation, gyro and GPS resolve the hot spot to coordinates on the map.

### 3 Centre & track

The head centres, zooms and follows the alarm point while the patrol is suspended.

### 4 Verify

Fused image, snapshot and recorded clip are presented to the operator for a yes or no call.

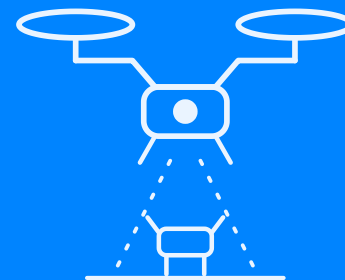
### 5 Dispatch

The confirmed alarm goes to fire authorities and control centres, with automated local announcement.

DRONE AND ROBOT INTEGRATION AND DISPATCH

# Drones & Robots

Autonomous eyes in the air and on the ground, dispatched from the control room.



BUILT ON

Azur Drones

Dedrone

DEEP Robotics

Genetec Security Center

Fixed cameras cannot be everywhere. Arpyan integrates autonomous drones, ground robots and airspace monitoring into Genetec Security Center, so an operator can send a drone or a robot to an alarm, watch its video beside the fixed cameras, and be warned when an unknown drone enters the airspace of the site.

## 24 / 7

Drone ready in its docking station, with no pilot needed on site

## On alarm

Missions start automatically, on schedule or from the operator's map

## Airspace

Unauthorised drones detected, identified and located

### WHAT IT DELIVERS

#### First on the scene

A drone takes off when an alarm is raised and delivers live visible and thermal video before a guard could get there.

#### Patrols without routine

Scheduled perimeter flights and robot rounds cover large sites at any hour and free guards for response.

#### Goes where people should not

Quadruped robots inspect plant areas, tunnels and hazardous zones, on stairs, in darkness and in rain.

#### Watches the sky as well

Radio-frequency, radar and camera sensors detect and classify drones and help locate the pilot.

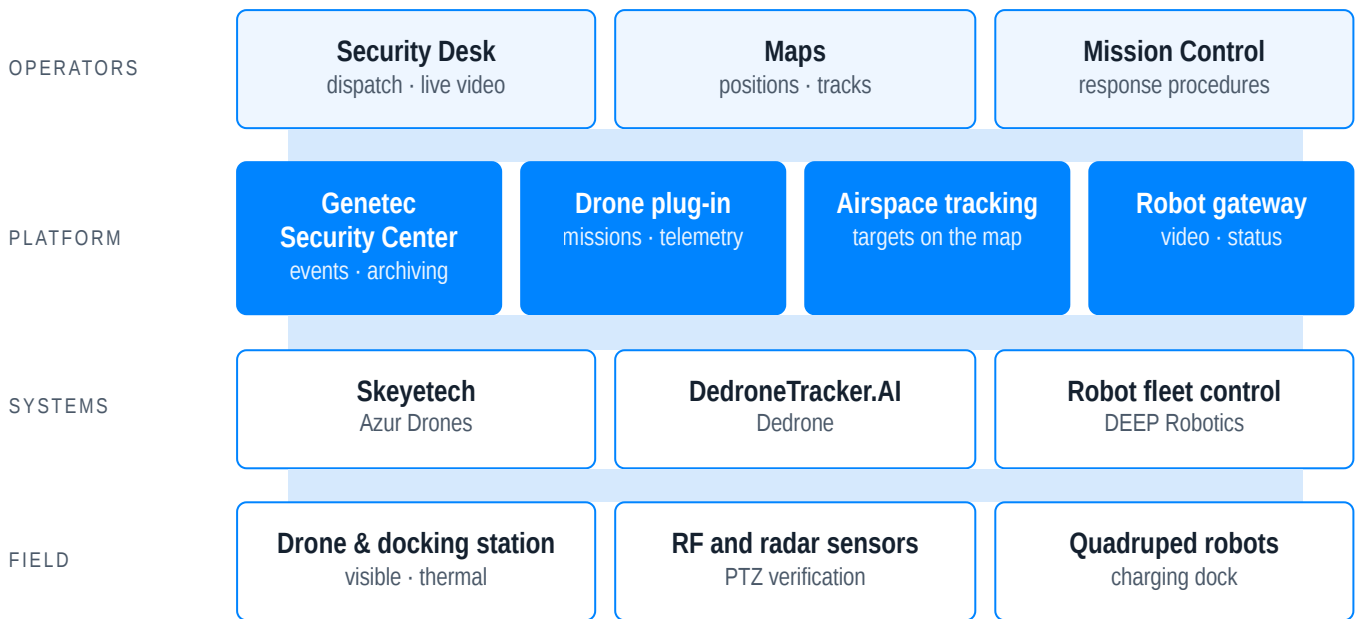
#### One operator picture

Drone and robot video, positions and alarms appear in Security Center with the fixed cameras, maps and procedures.

#### Recorded and accountable

Mission video is archived like any other camera, so every flight and patrol can be reviewed and used as evidence.

## SOLUTION ARCHITECTURE



## TECHNOLOGY BUILDING BLOCKS

### Azur Drones

Drone-in-a-box

Skeyetech autonomous drone with docking station and day and thermal cameras, flown beyond visual line of sight. Missions are launched from Security Center manually, on schedule or on alarm.

### Dedrone

Airspace security

DedroneTracker.AI combines RF, radar, video and acoustic sensors to detect, identify and track drones and locate their pilots, with type and position shown in Security Center.

### DEEP Robotics

Ground robots

X30 industrial quadruped: IP67, -20 to +55 °C, 45° stairs, autonomous navigation in darkness and automatic charging, carrying visible and thermal cameras.

### Genetec Security Center

Unified dispatch

The alarms, maps and procedures that trigger and supervise each mission, with video recorded next to the fixed cameras.

## TYPICAL APPLICATIONS

- Critical infrastructure
- Energy and industrial plants
- Ports and logistics yards
- Large estates and perimeters
- Stadiums and events
- Justice and correctional facilities

### COMBINES WITH

Management Platform · Surveillance · Early Fire Detection

Regulatory note: drone operations need authorisation from the civil aviation authority, and active counter-drone measures are reserved to authorised bodies. Arpyan supports the client in defining a compliant concept of operations.

## FROM ALARM TO MISSION

### 1 Alarm

A perimeter, camera or airspace event is raised in Security Center.

### 2 Dispatch

The drone takes off or a robot is sent, automatically or from the map.

### 3 Observe

Live visible and thermal video appears beside the fixed cameras.

### 4 Review

Mission video is archived and available as evidence.

# Technology partners and legal notes

Our solutions are built with technology from manufacturers we know and work with directly. The notes below apply to everything stated in this document.

## TECHNOLOGY PARTNERS

|                                        |                                                                               |
|----------------------------------------|-------------------------------------------------------------------------------|
| <b>Platform</b>                        | Genetec · Advancis                                                            |
| <b>Video and thermal</b>               | Hanwha Vision · Dallmeier · Vivotek · Raythink · March Networks · Pelco · HGH |
| <b>Access control</b>                  | Mercury · HID · STid · Axis · Suprema                                         |
| <b>Communications and audio</b>        | 2N · Tonmind · Ascom                                                          |
| <b>Networks</b>                        | Maisvch · FS · Huawei                                                         |
| <b>Perimeter and airspace</b>          | Senstar · Echodyne · Dedrone                                                  |
| <b>Drones, robotics and protection</b> | Azur Drones · DEEP Robotics · Temet                                           |

## LEGAL NOTES

**Trademarks.** All product and company names are trademarks of their respective owners and are used for identification only. Their mention does not imply endorsement of this document by the manufacturers.

**No offer.** This document is for information only and is not an offer. The scope, configuration, prices and terms of each project are defined solely by its own quotation and agreement.

**Drones.** Drone operations need authorisation from the civil aviation authority. Active counter-drone measures are reserved to authorised bodies.

**Specifications.** Specifications, figures and ranges are indicative, are taken from manufacturer documentation and may be changed by the manufacturers without notice. Detection ranges depend on target size, atmospheric conditions and installation geometry.

**Voice alarm.** Public address solutions serve operational and security announcements. Where a certified voice-alarm system (EN 54-16 / EN 54-24) is required, we interface with it rather than replace it.

**Personal data.** Video surveillance, access control and plate recognition process personal data. The operator of each system is responsible for its lawful use under the GDPR and national law.

## CONTACT

# Talk to us about your project

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