



# Security Communication Platform



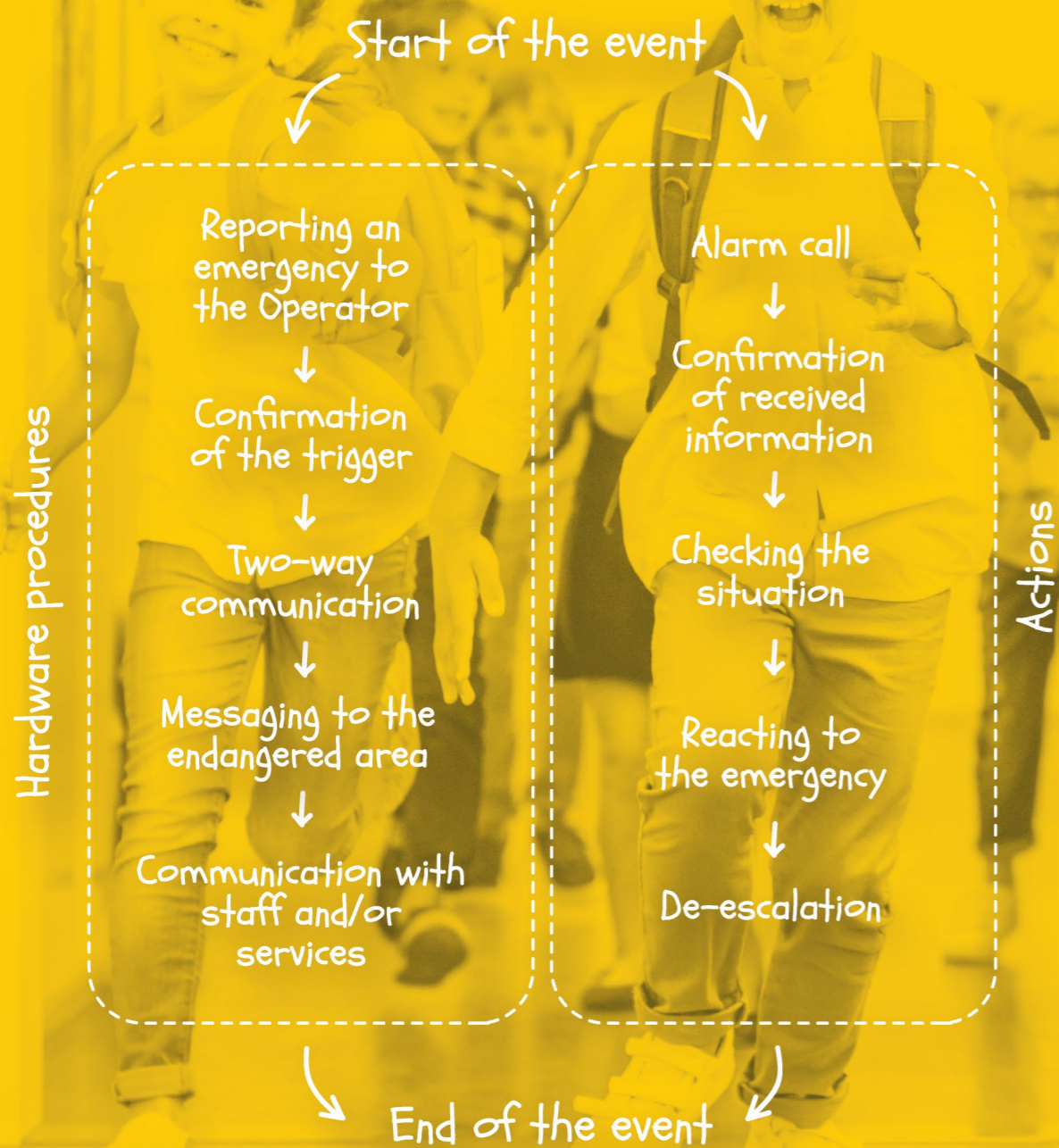
For school applications



We make everyday life safer



## Crisis management in accordance with DIN VDE V 0827



# Security Through Communication

The school is a place where security is essential. At the same time, it is a place extremely prone to health-threatening events and many other emergencies. In a crisis situation, the presence of children and adolescents will often result in disorder, or even panic.

In this situation, trained staff and the use of communication systems in an integrated security concept will play a key role, allowing staff to:

- implement crisis management procedures
- provide fast information flow between school staff and the students
- shorten the emergency reaction time
- better react to the nature of the emergency

To meet the challenges posed for Communication and Safety Systems, especially in schools, Ambient System has implemented a design concept in accordance with DIN VDE V 0827.

The concept combines an integrated Voice Alarm and SIP Communication System, to achieve maximum safety.

# System concept

Ambient System presents an integrated solution, combining the functionality of an EN54 certified Voice Alarm System, a fully digital SIP intercom system, together with a visualisation and management platform.



### SIP HORN SPEAKER

ABT-T2515S

- ✓ Powered SIP loudspeaker (SIP 2.0)
- ✓ Built-in 15W amplifier
- ✓ Power via PoE+ or DC adapter
- ✓ Gives ability to page to individual loudspeakers



### SIP WALL SPEAKER

ABT-W6S

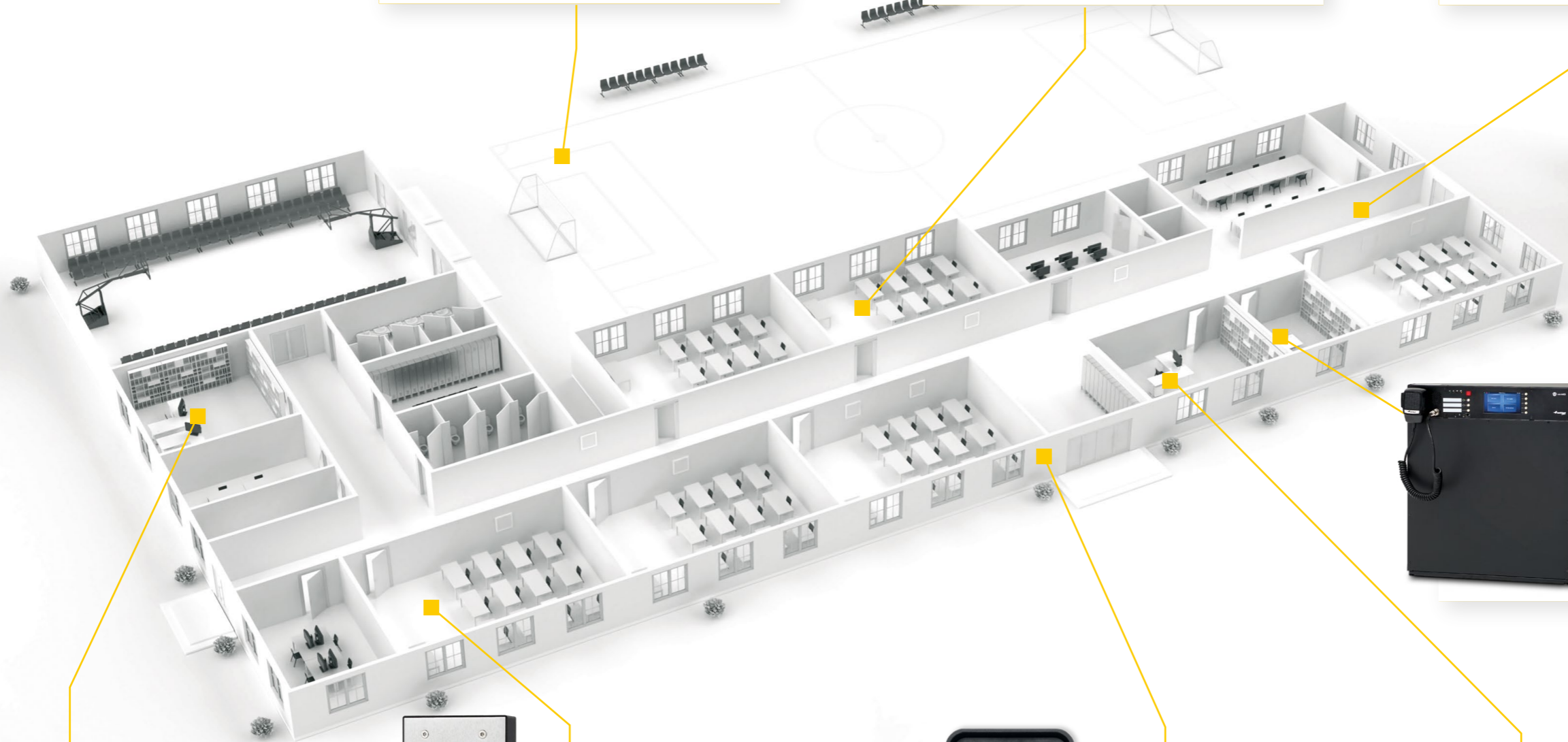
- ✓ Powered SIP loudspeaker (SIP 2.0)
- ✓ Modern and discrete look
- ✓ For speech and BGM applications
- ✓ Can be flush-mounted



### EN54 LOUDSPEAKERS

ABT-SW176

- ✓ Wall or ceiling installation
- ✓ For large areas and concourses
- ✓ Powered via 100V speaker lines
- ✓ Certified in accordance with EN54-24



### COMPACT PA/VA SYSTEM

miniVES / midiVES

- ✓ All-in-one type system
- ✓ Rack or direct wall installation
- ✓ Built-in Fireman's Microphone
- ✓ Touchscreen maintenance LCD
- ✓ Certified in accordance with EN54-16



### OPERATOR'S STATION

ABT-ICDG-1

- ✓ Combined Intercom unit and paging microphone
- ✓ Handset
- ✓ Gooseneck microphone
- ✓ Functional display
- ✓ 96 programmable buttons



### SIP INTERCOM

ICO EMERGENCY 01

- ✓ For indoor and outdoor installation
- ✓ Designed in accordance with DIN VDE V 0827
- ✓ Dedicated alarm button behind glass cover
- ✓ Vandalproof chassis



### SIP INTERCOM

ABT-IC-K1

- ✓ For indoor and outdoor installation
- ✓ Full numeric keyboard
- ✓ Built-in relay
- ✓ Robust enclosure (IP65 / IK10)

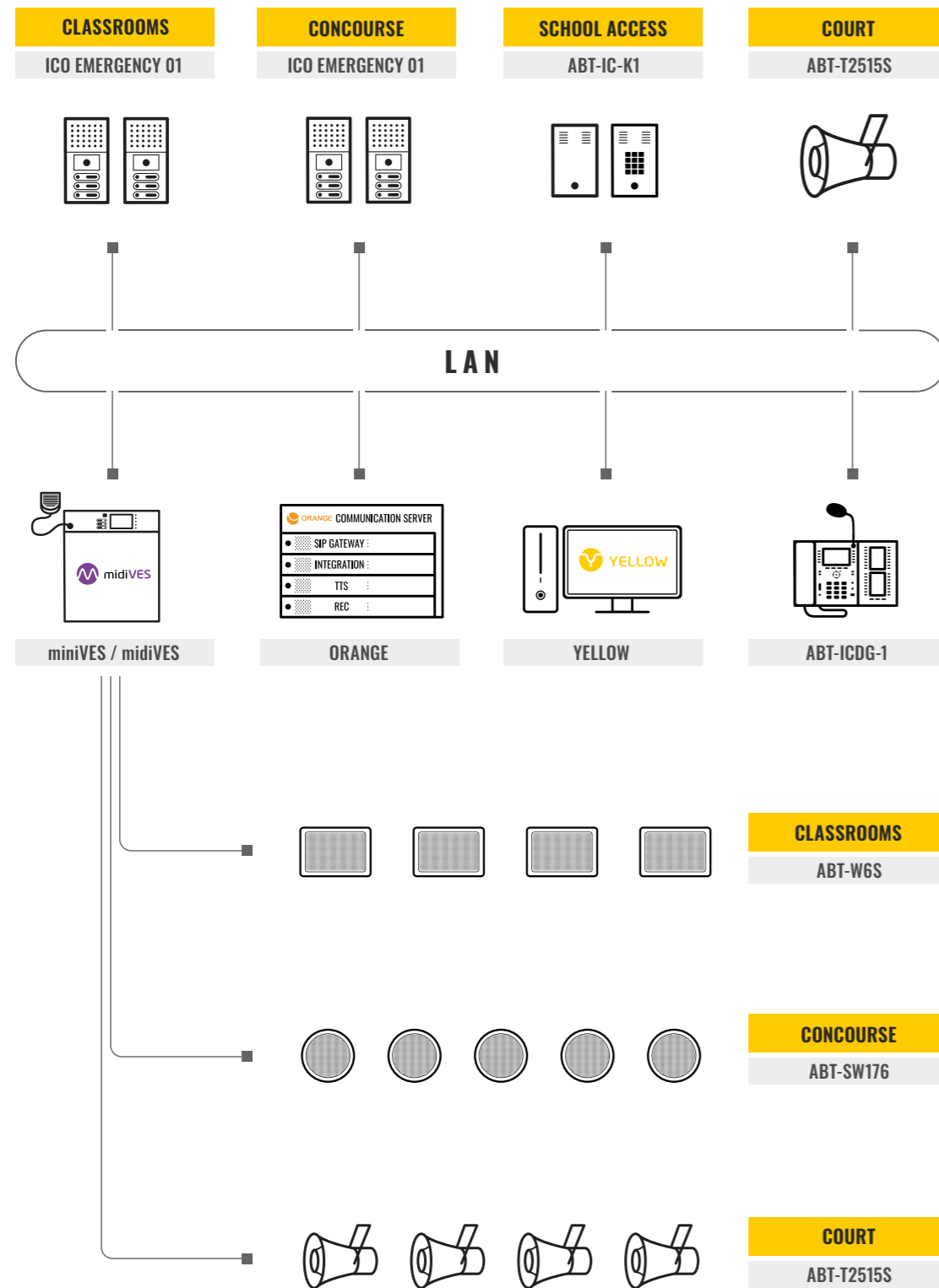


### SYSTEM MANAGEMENT

YELLOW

- ✓ For Windows PC
- ✓ Graphical User Interface (GUI)
- ✓ System surveillance
- ✓ Event and operation log
- ✓ Broadcast Control features

# System diagram



# SIP Paging Station

- ✓ 20 SIP lines, three-way conferencing, hotspot
- ✓ HD Audio via microphone and handset
- ✓ Flexible gooseneck microphone
- ✓ 2 x 3.5" DDS display and 4.3" functional display
- ✓ Built-in Bluetooth
- ✓ Wi-fi (requires additional module)
- ✓ Up to 106 DDS keys (42 physical buttons with RGB backlight)
- ✓ Supports H.264 codec to receive video-calls
- ✓ Support with adjustable angle (40 or 50 deg)
- ✓ Compatibility with platforms such as: Asteriks, Broadsoft, 3CX, Metaswitch, Elastix, Avaya



# SIP Intercom

- ✓ ICO EMERGENCY is an intercom designed in accordance with the DIN VDE V 0827 standard
- ✓ Dedicated alarm button behind breakable glass cover
- ✓ Three programmable buttons
- ✓ Vandalproof enclosure (IK08)
- ✓ Both of indoor and outdoor applications (IP54)
- ✓ For surface, flush or flush mounting in plasterboard
- ✓ Acoustic Echo Cancellation (AEC)
- ✓ Audio output for induction loop driver
- ✓ Two relay outputs and one control input





## YELLOW

YELLOW is a visualization and integration software for management of Voice Alarm Systems.

YELLOW creates a customisable Graphical User Interface, where the status of devices is presented in the form of graphics and objects, which allows easy system diagnostics.

The user interface also allows the control of functions related to broadcasting (matrixing, loudness, etc.).

Third-party system integration is possible via SNMP client or OPC server.

2x 320W, Up to 8  
speaker lines (4 Zones)

3x 500W, Up to 16  
speaker lines (8 Zones)

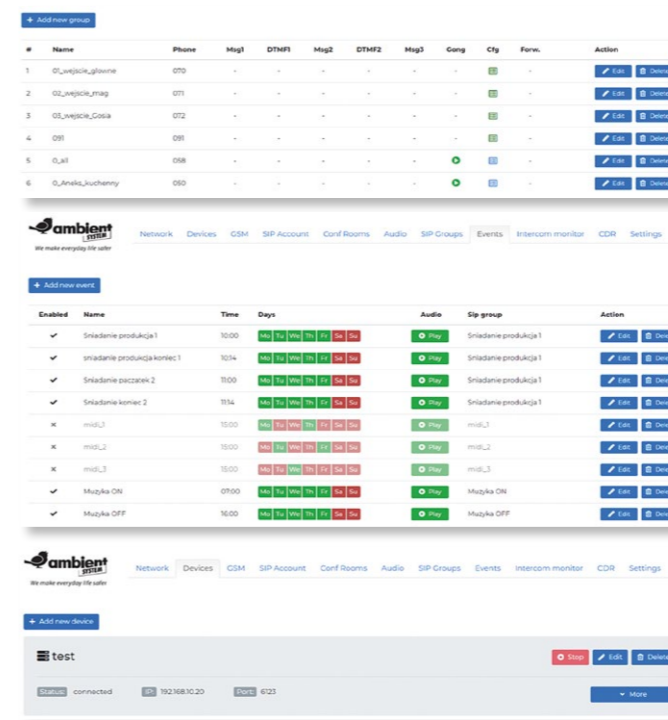


The miniVES and midiVES are all-in-one type compact networkable Voice Alarm system amplifiers.

They are designed for for small and medium facilities where there is a requirement for EN54 certified solutions. The units can also be used to create a large scale audio network.



## VES SIP Gateway



- ✓ User interface accesible by browser
- ✓ Creating broadcasting zones
- ✓ Ability to integrate with phone system via IP PBX
- ✓ Can be used in combination or without a SIP server
- ✓ Integration with Ambient System PAVA via system protocol
- ✓ Up to 16 simultaneous broadcasts
- ✓ Supports narrowband and wideband codecs

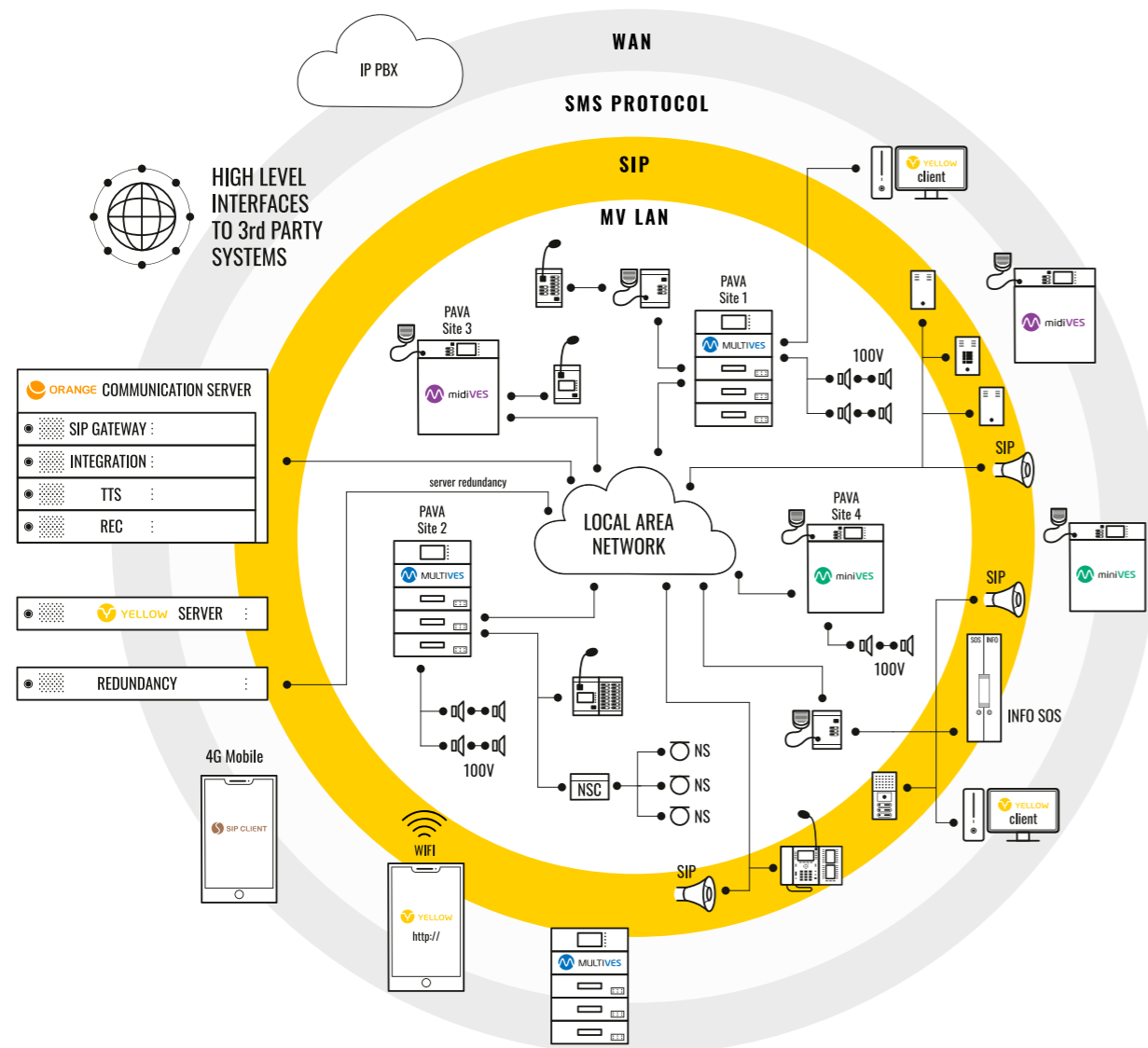
## ISE COMMUNICATION MODULE - SERVER

- ✓ Grapical User Interface
- ✓ Supports SIP 2.0 protocol (RFC3261)
- ✓ Creating intercom groups
- ✓ Interactive Voice Response (IVR)
- ✓ HD Voice
- ✓ Queueing and prioritizing calls
- ✓ Conference rooms for multiple user calls



# Compatibility with other Ambient System solutions

The ORANGE platform and SIP intercoms, in combination with PAVA systems (such as MULTIVES, miniVES, or midiVES) and YELLOW (software for system management, visualisation and integration), are part of the Ambient System Security Communication Platform concept. ORANGE extends the standard broadcasting capability of the PAVA system offering two-way communication, giving the operator and users the chance to exchange information and receive feedback. This combination of systems allows to create a unified user interface and uses the SIP stations in a dual role of intercom and paging microphone.

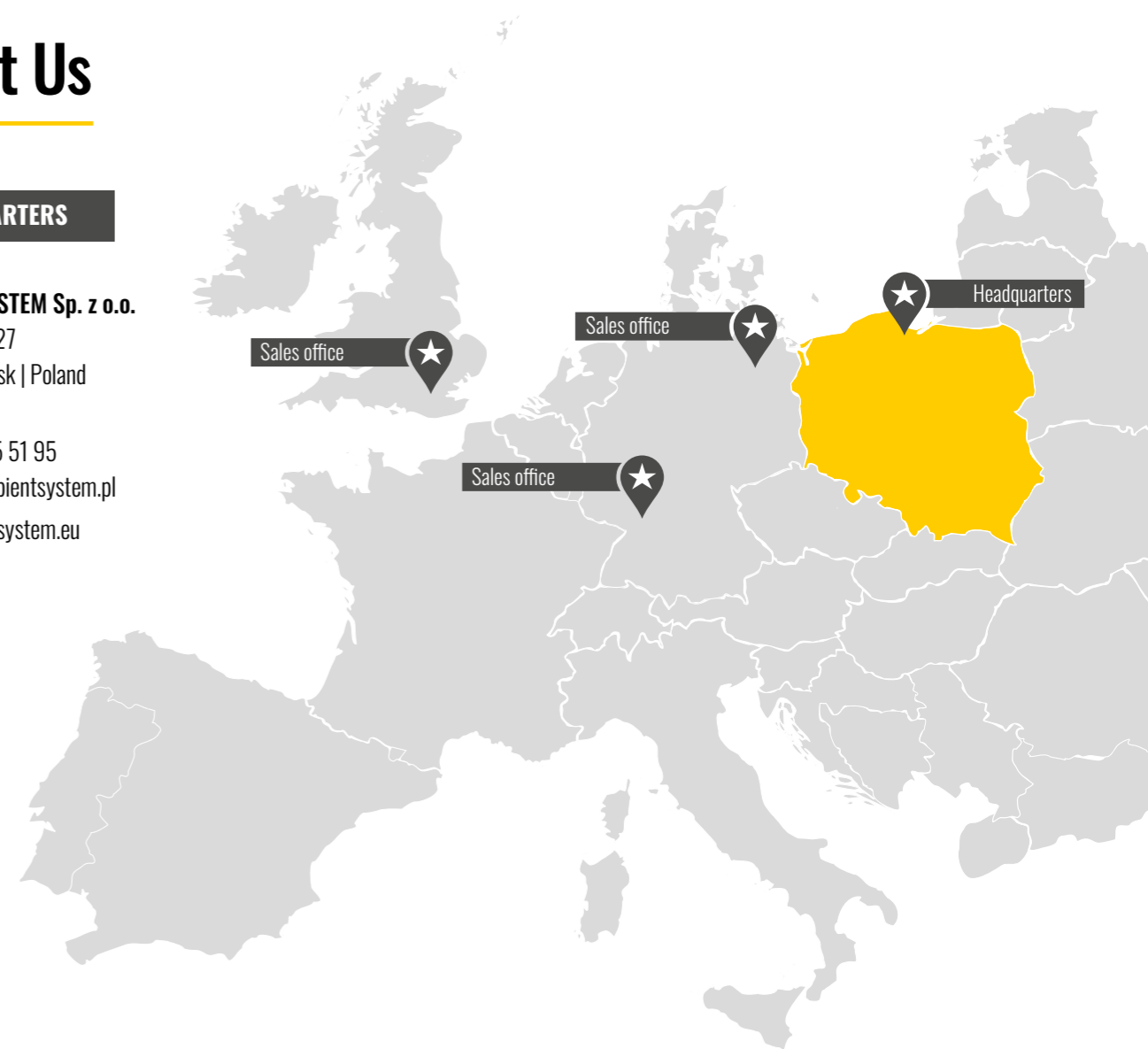


# About Us

## HEADQUARTERS

**AMBIENT SYSTEM Sp. z o.o.**  
ul. Bysewska 27  
80-298 Gdańsk | Poland

T: +48 58 345 51 95  
ambient@ambientsystem.pl  
www.ambientsystem.eu



More than **30 years** on the market.



More than **2000 references** in Poland, Europe and Middle East.



Manufacturer of **Voice Alarm and Intercom Systems**.



Supplier of **Fire Alarm Systems**



**Professional support** with system design, acoustic simulations and system start-up.



**Innovation and high quality products** with comprehensive support.



*We make everyday life safer*

*Ambient System products are continually improved. All specifications are therefore subject to change without prior notice.* PL / 04.2022