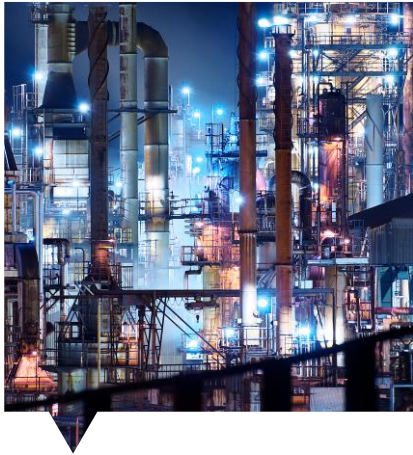




UNIFIED PUBLIC ADDRESS FOR INDUSTRIAL SOLUTIONS

UNIFIED PA SOLUTIONS

Designed for industrial areas



OIL AND GAS



METALS AND
MINING



CHEMICALS



MANUFACTURING
INDUSTRY



ENERGY AND
PUBLIC UTILITIES

INDUSTRIAL SOLUTIONS

Petrochemical plant



Mobile Apps



Mobile Radio
Integration



Software Intercom
Server for Virtualised
IT-Infrastructure

INDUSTRIAL SOLUTIONS

Petrochemical plant



Call Solution

- Deployed for workers safety, to get help in case of emergency situations and accidents
- Page party conferences for efficient group communication
- Rapid communication between control rooms and machine working places
- Allows clear communication also in high-noise areas and Ex zones
- Security stations with built-in camera to capture incidents or to allow access to special protected areas

Public Address Solution

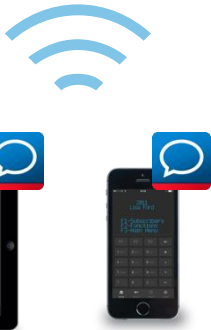
- Broadcast general and emergency announcements
- Fast and easy paging, everywhere in the factory area
- Automated warning of workers about machine starting procedures or similar
- Also Stations are part of the PA system

INDUSTRY SOLUTIONS

Company Building



Mobile Apps



Software Intercom
Server for virtualized
IT-Infrastructure

INDUSTRY SOLUTIONS

Company Building



Call Solution

- Visitor communication
 - Arriving with cars at the barrier
 - In front of the main entrance
- Operational communication
 - Warehouse
 - Production
 - ...

Public Address Solution

- General and emergency announcements
- Paging
- Create a nice atmosphere with background music

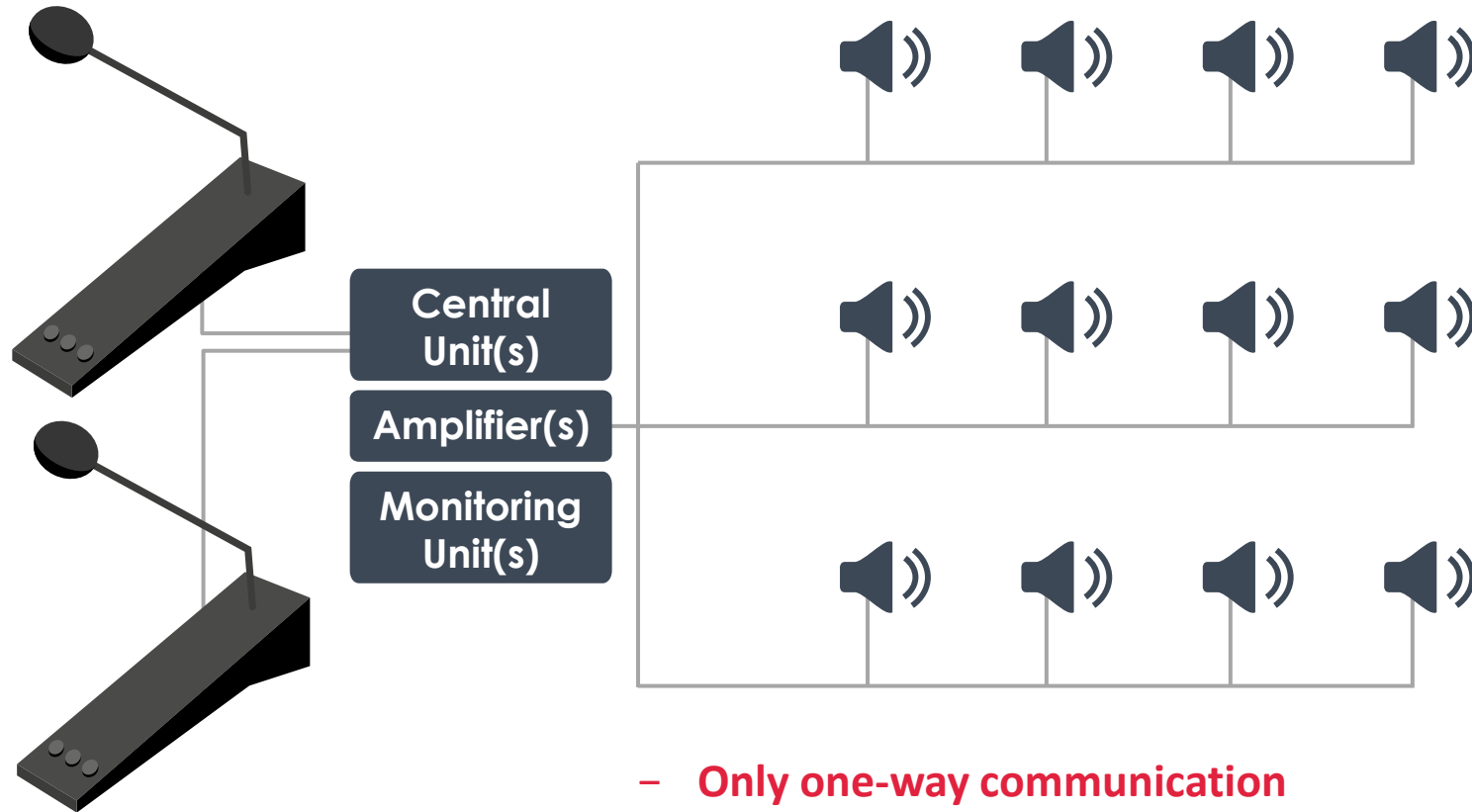


WHAT MAKES THE DIFFERENCE?

**CLASSIC PA VS.
UNIFIED PA SYSTEMS**

CLASSIC PA SOLUTIONS

The traditional design



- **Only one-way communication**
- **Some to many**
- **Many central devices but limited functionality**
- **Hard-wired and fixed**

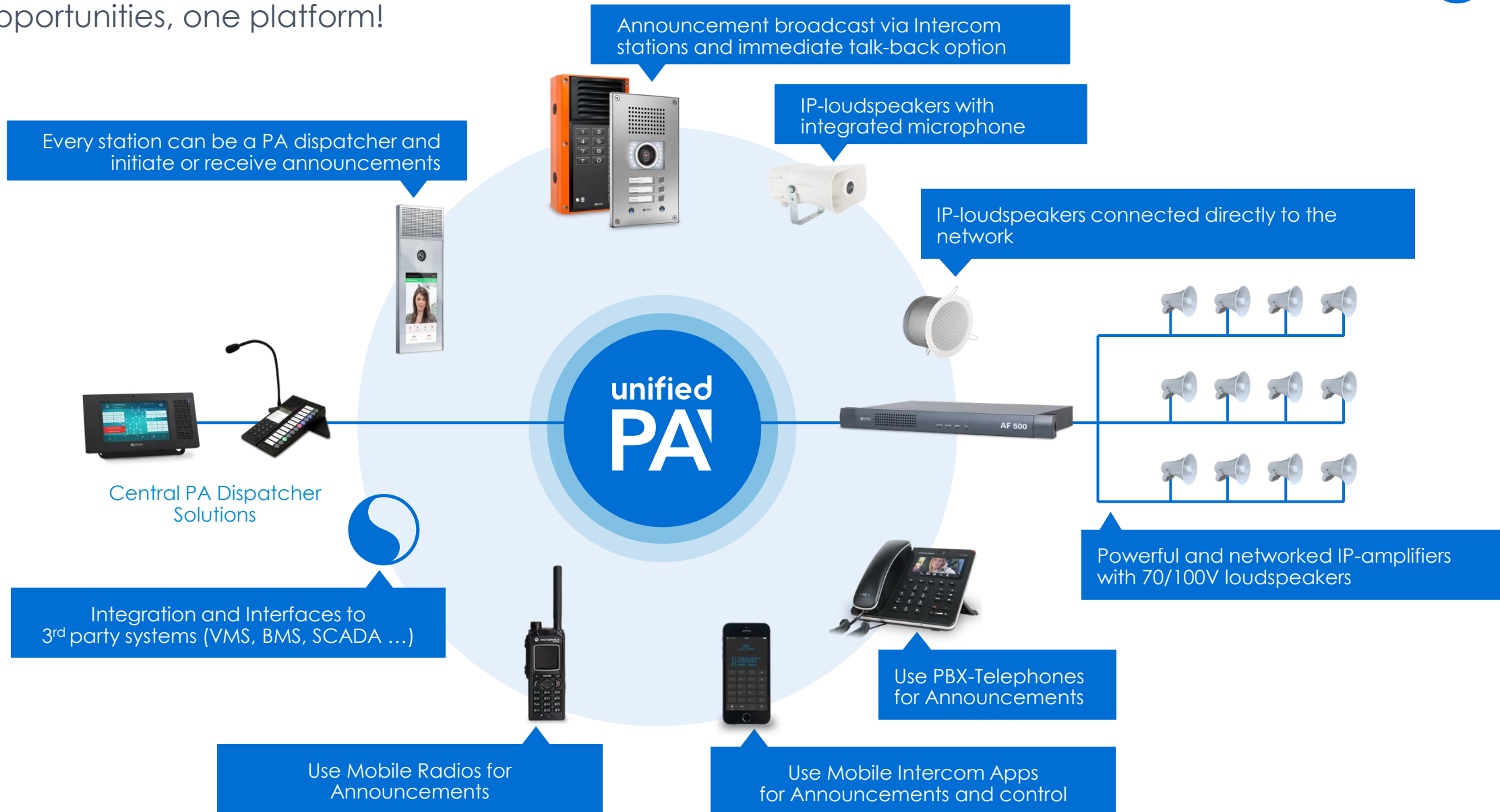
CLASSIC PA SOLUTIONS

Utilizing a modern IP network design



COMMEND UNIFIED PA

More opportunities, one platform!

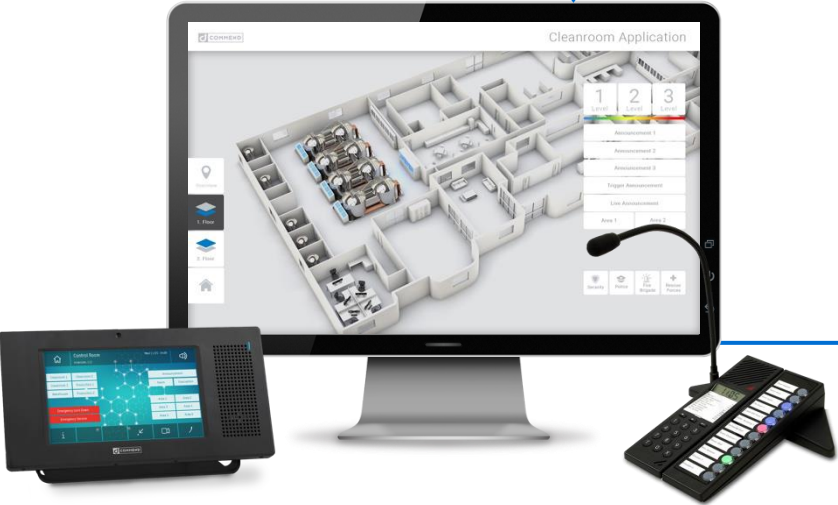


COMMEND UNIFIED PA

More opportunities, one platform!



Visualization and smart PA dispatcher solutions with a load of features

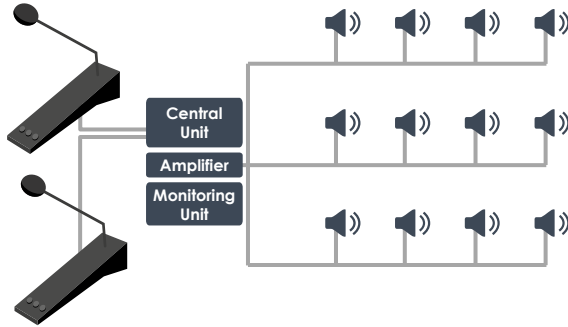


Central PA
Dispatcher Solutions

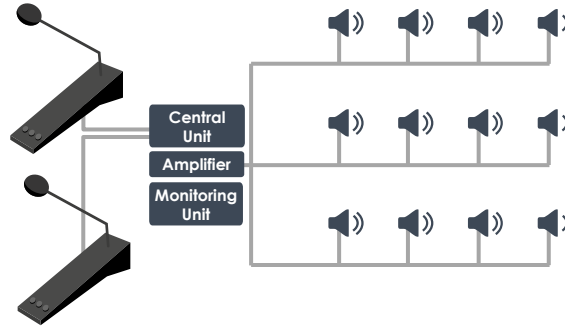


CLASSIC PA SOLUTIONS

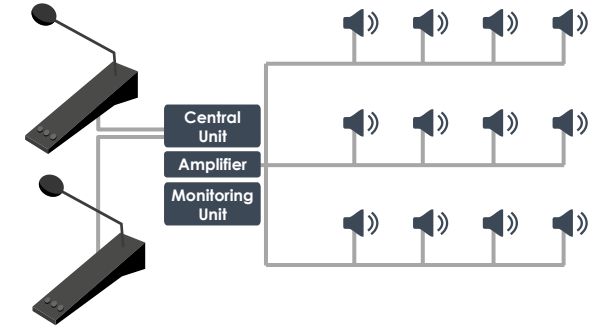
The traditional design at several sites



Site 1



Site 2

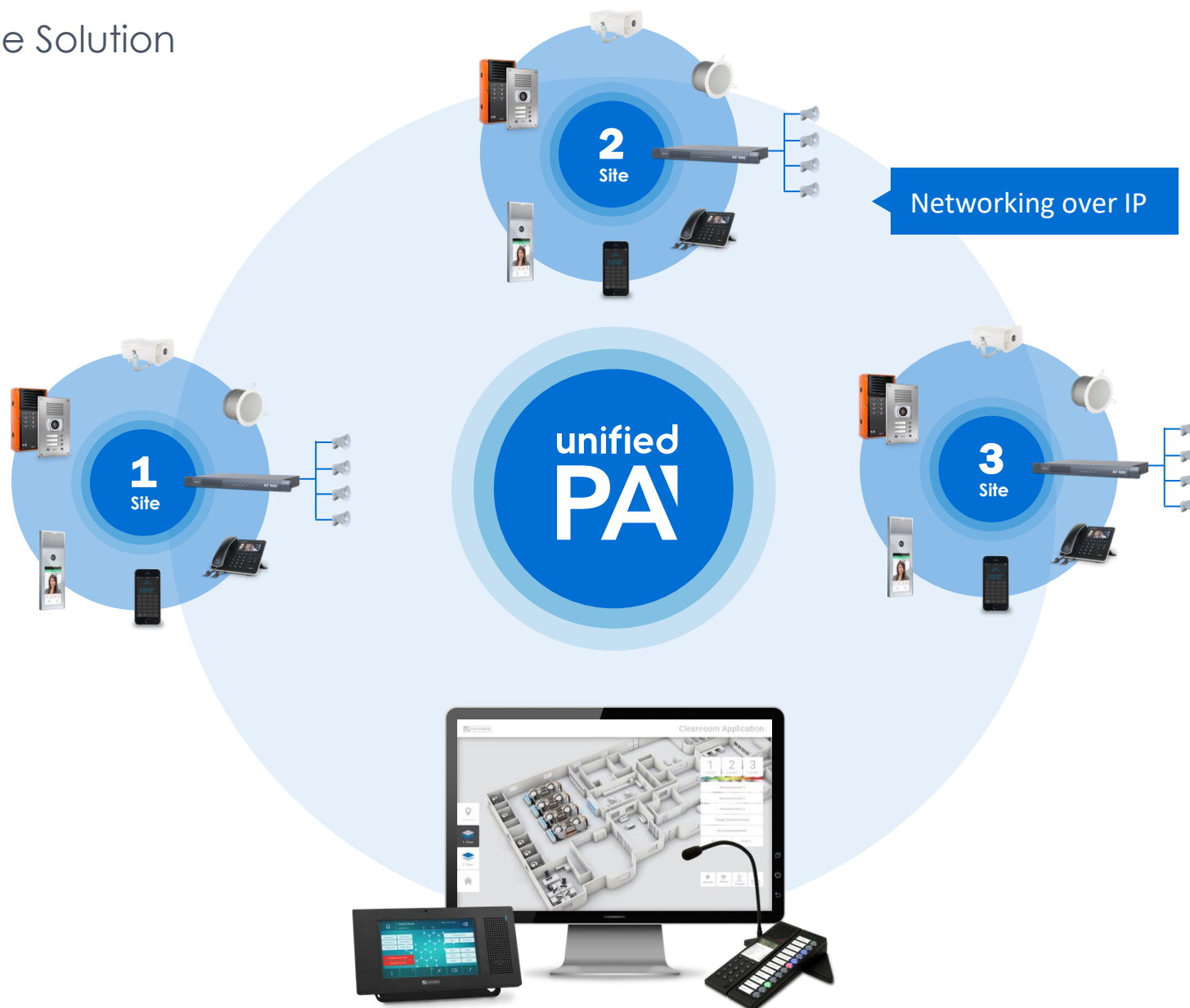


Site n

- Networking for multi site control is hard to achieve (often complex and expensive)
- Local control is required
- Other systems like Intercom, Video and Telephone work as separated solutions (and require individual control and hardware)

IP NETWORKED SOLUTIONS

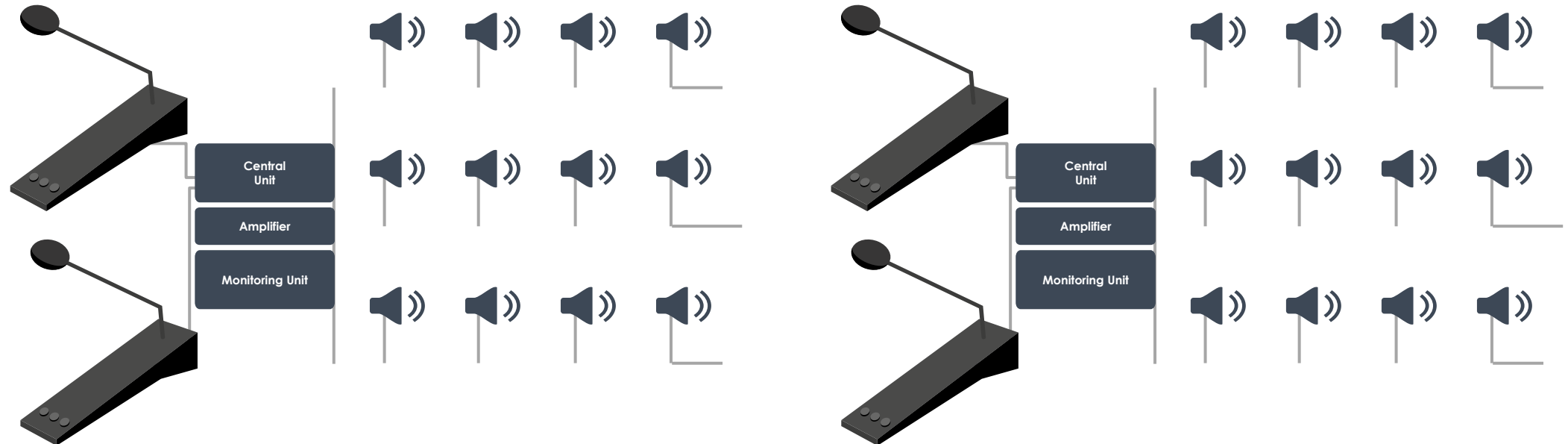
One Platform – One Solution



SYSTEM MIGRATION AND CENTRALIZING OF EXISTING SYSTEMS



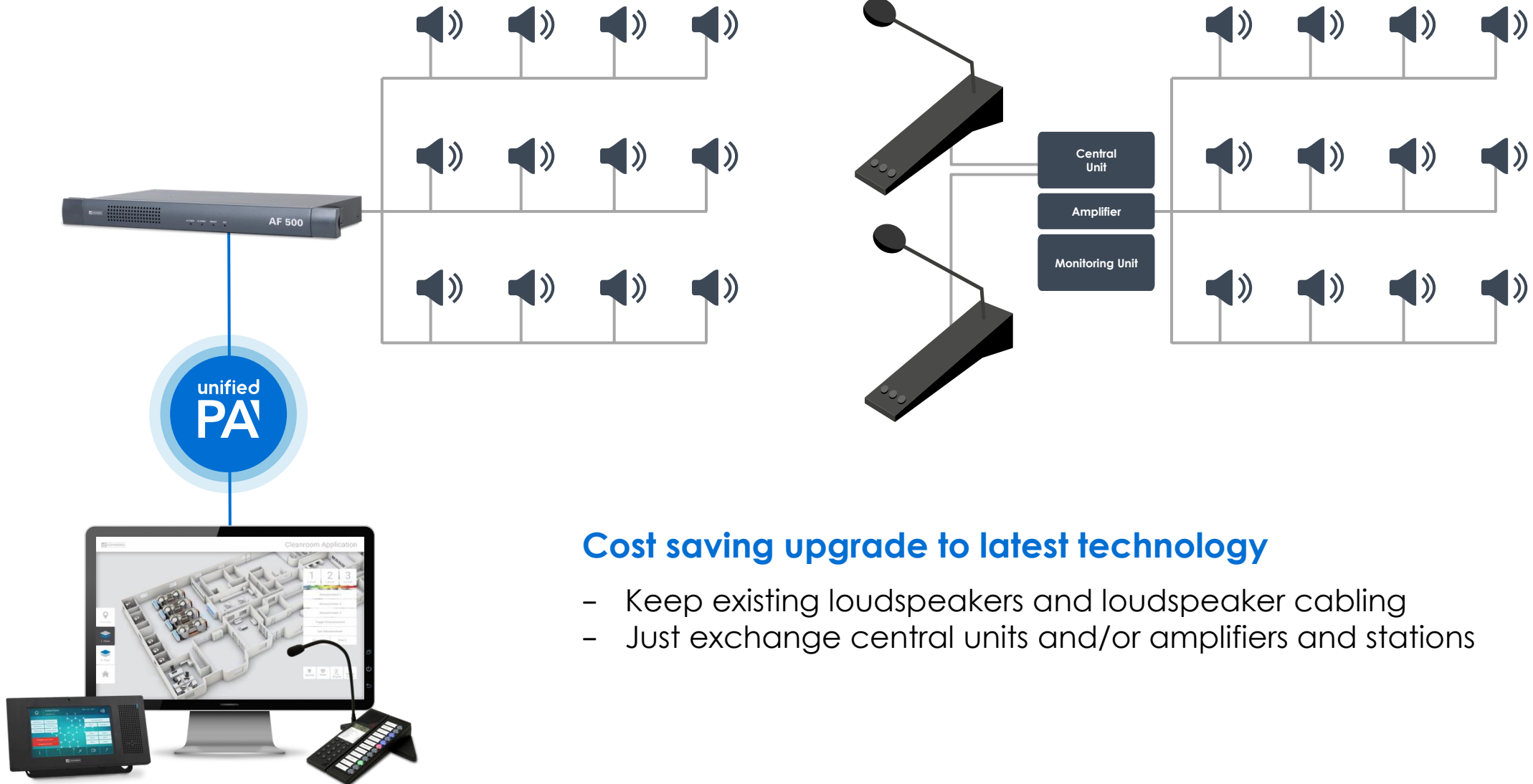
More opportunities, one platform!



SYSTEM MIGRATION AND CENTRALIZING OF EXISTING SYSTEMS



More opportunities, one platform!



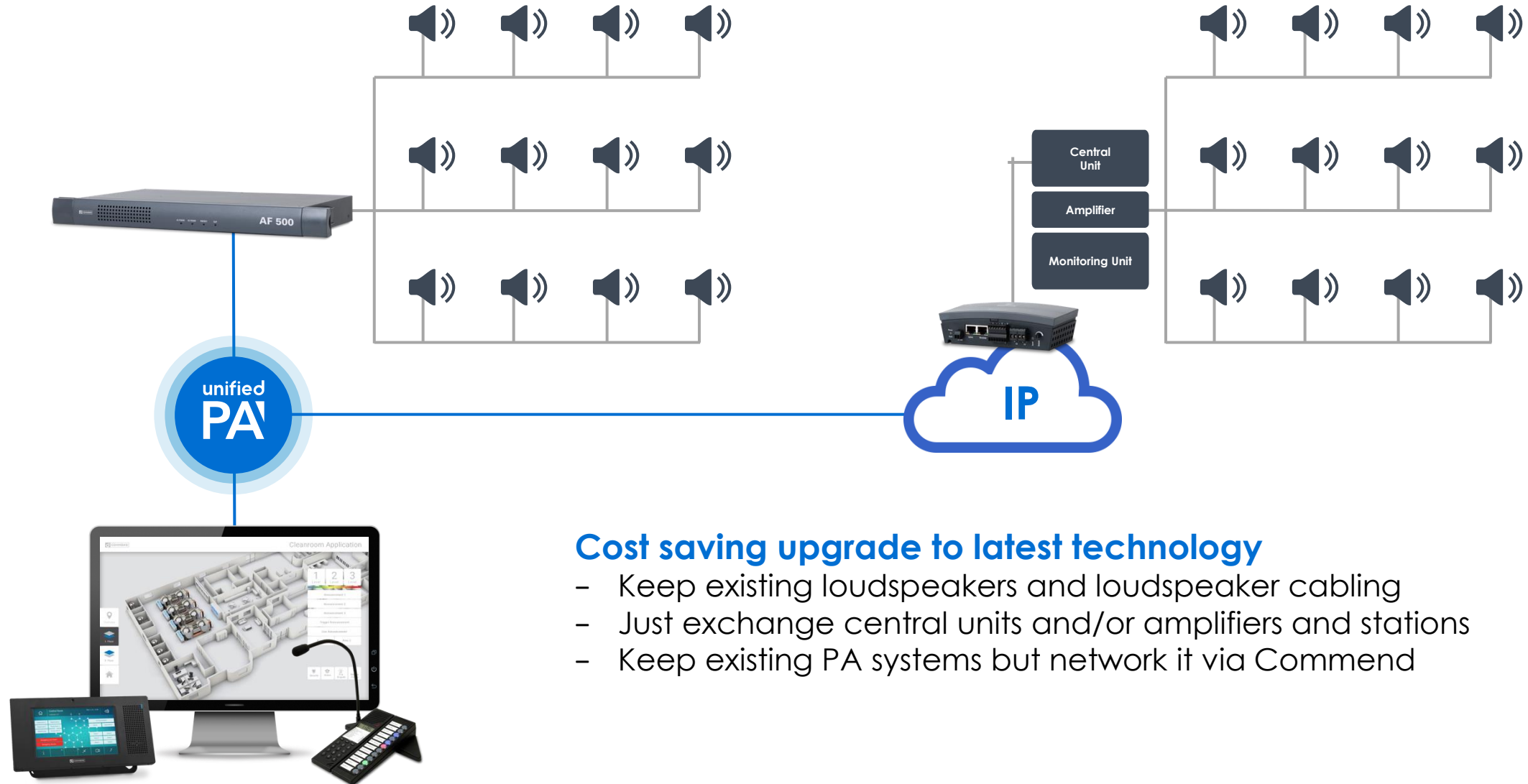
Cost saving upgrade to latest technology

- Keep existing loudspeakers and loudspeaker cabling
- Just exchange central units and/or amplifiers and stations

SYSTEM MIGRATION AND CENTRALIZING OF EXISTING SYSTEMS



More opportunities, one platform!



Cost saving upgrade to latest technology

- Keep existing loudspeakers and loudspeaker cabling
- Just exchange central units and/or amplifiers and stations
- Keep existing PA systems but network it via Commend

UNIFIED PA PRODUCTS



GET YOUR MESSAGE
ACCROSS



A black, rectangular audio amplifier unit, the AF 500 model. The front panel features the model name 'AF 500' in large, white, sans-serif capital letters. To the left of the model name, there are four small, square indicator lights, each with a label above it: 'AC POWER', 'DC POWER', 'PROTECT', and 'CLIP'. On the right side of the unit, there are several ventilation slots and a small, circular blue light or indicator. The unit is shown from a slightly low angle, emphasizing its sleek, professional design.

AF 500

Series **AF**

Smart IP-Amplifiers for Unified PA

Designed and manufactured in Austria 

FROM SMALL TO BIG APPLICATIONS

Series AF



WITH HYBRID TECHNOLOGY

Series AF



MODERN ARCHITECTURE

Series AF

End-to-End Monitoring

Loudspeaker Line Monitoring

Monitoring of Server Connection

Short circuit and overload protected

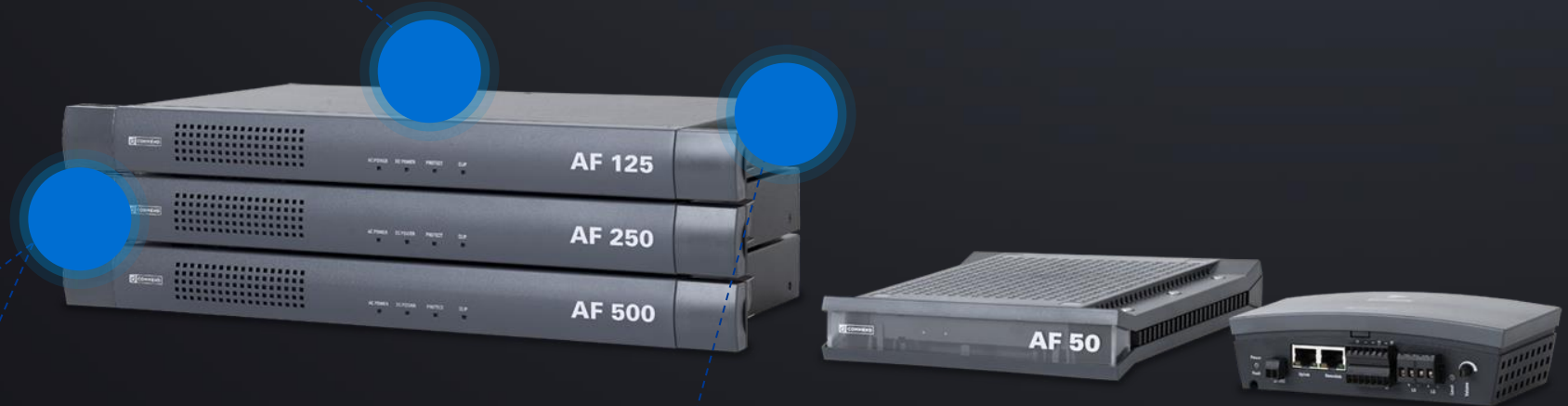
Compact Design

Rack 1U

High efficient Class D Amplifiers

Mic-In

Enables functions like IVC, two-way communication, Audio Monitoring, etc.



MODERN ARCHITECTURE

Series AF

Unique Logic action sequences

Unique programming possibilities to fulfill customer's requirements

1. Play warning message
2. Activate lights
3. Set off call to control desk
4. Activate CCTV camera
5.

IP-Switch

On board for easy connection of other devices

Future proof

SW updates for new features

Standalone operation possible

Mounting options

Racks, walls, behind panels, ceiling ...



Virtually unlimited number of audio input channels per amplifier



Series AFLS

IP-Speakers for UNIFIED PA

Designed and manufactured in Austria 

MODERN ARCHITECTURE

Series AFLS

High volume and
superior audio quality

thanks to integrated 10 Watt
Class-D amplifier

Intelligent Volume Control

automatically adjusts the volume
setting to the ambient noise level

No central amplifiers needed

thanks to secure IP PoE connectivity

End-to-End Monitoring

Zones and Addressing

Each loudspeaker can be addressed
and configured individually.
Loudspeakers can be allocated to
groups and zones via configuration.



MODERN ARCHITECTURE

Series AFLS

Unique Logic action sequences

Unique programming possibilities to fulfill customer's requirements

1. Play warning message
2. Activate lights
3. Set off call to control desk
4. Activate CCTV camera
5.

Conversation and talk-back capability
over integrated microphone

Compact Design

I/O contacts

for call buttons, indications, etc.

Future proof

SW updates for new features



SERIES AFLS

Product Variants



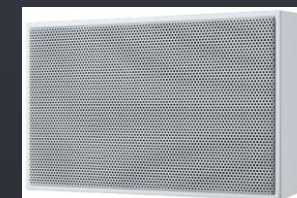
AFLS 10H H G



AFLS 10H P W



AFLS 10H C W



AFLS 10H SC W

Type	Horn loudspeaker	Sound projector	Ceiling loudspeaker	Cabinet loudspeaker
Environment	Outdoor and industrial environments	Protected outdoor and indoor environments	Indoor environments	
IP rating	IP 66	IP 54	n/a	
IK rating	IK 10		IK 09	n/a
Operating Temperature	-40°C to +70°C			-20°C to +65°C
Max. sound pressure [db]	118	101	105	102
Two-way audio, Talk-back functionality and IVC	Via the integrated microphone		Via optional resp. external microphone	Via the integrated microphone
Colour	Light grey *		White *	

* Other colours available via Customized Solutions

SYSTEM CONTROL



for UNIFIED PA

Designed and manufactured in Austria 



STUDIO BY COMMEND



Graphical User Interface for PA System Control

Perfect overview at a glance

Supports the operator in his daily work
Visualisation of sites – Call location

Visualisation of sites

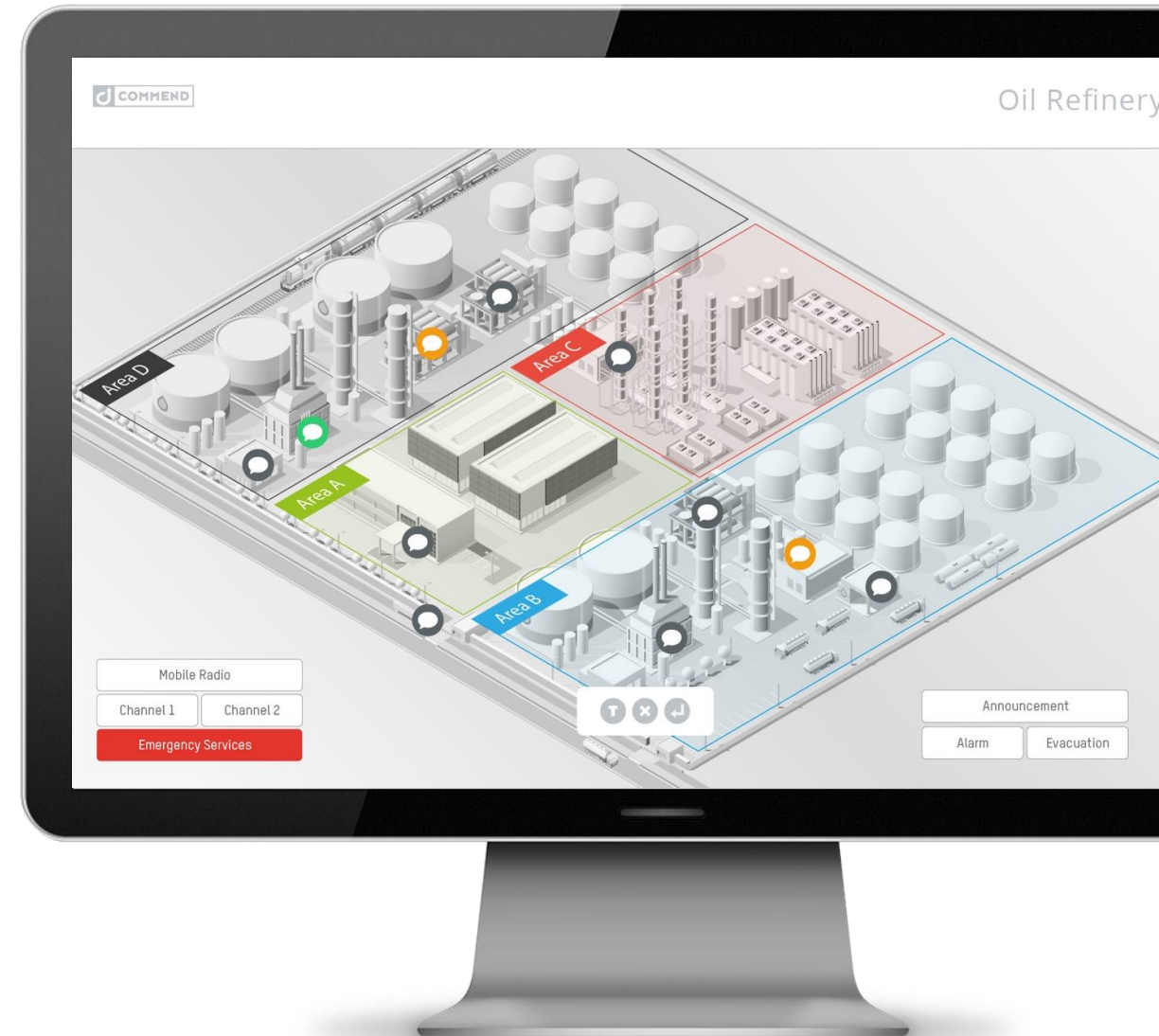
Plans, display call location, video, control capabilities

Make your message heard

With individual or pre-defined speech messages

Quickly address your messages

Select required PA zones and predefined messages by a single touch



STUDIO BY COMMEND



Graphical User Interface for PA System Control

Concatenate messages click-by-click

Concatenate pre-recorded audio easily for announcements that fit the situation perfectly

Schedule announcements

Schedule messages to be played on specific times and dates

Device and Line Monitoring

Visualize equipment failure immediately to increase reliability



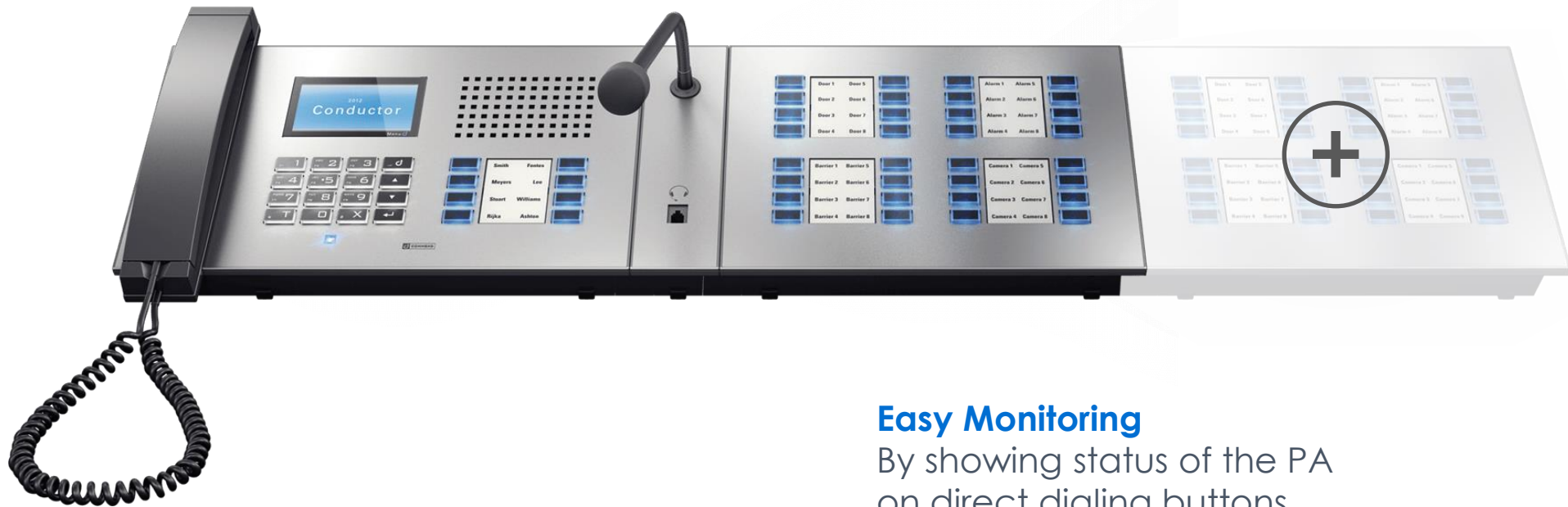
DISPATCHER - CONDUCTOR

Solutions for Multi-Zone PA Control



Modular Design

2 different base stations, handset, gooseneck microphone and up to 3 direct dialling modules for PA functions and lot more



Easy Monitoring

By showing status of the PA on direct dialling buttons

DISPATCHER – EE 380

Solutions for Multi-Zone PA Control



Easy Monitoring

By showing status of the PA on direct dialing buttons

Modular Design

Gooseneck Microphone, additional loudspeaker and up to 4 direct dialling modules for PA functions and lot more

Control and Automatisation Capabilities

Control outputs and third-party systems

DISPATCHER – EE 980

Solutions for Multi-Zone PA Control



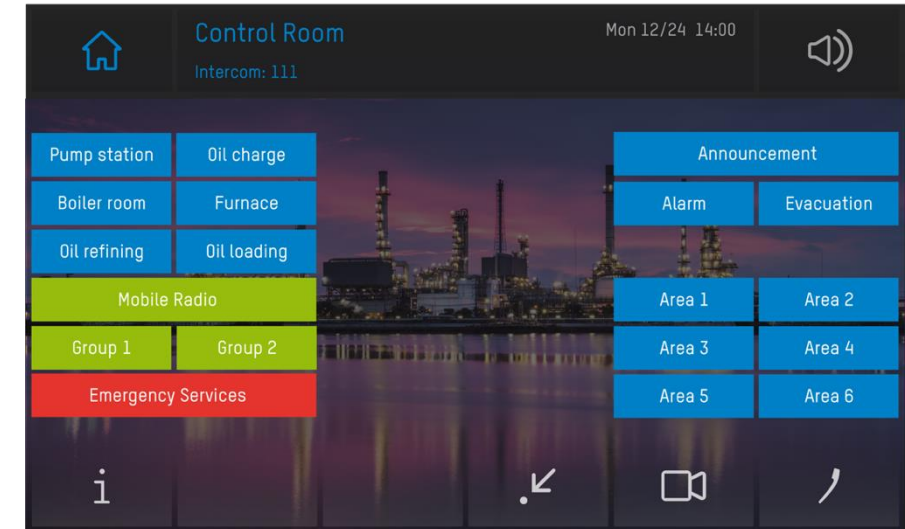
Smart and Compact

Touchscreen for fast access to features



Zone Selection

Select required PA zones by a single touch



Control and Automatisation Capabilities

Control outputs and third-party systems



TRUSTED. COMMUNICATION. ALWAYS.



member of the TKH Group <