MGCL

Miraloyd Global Consult Limited

Communicate. Connect. Build. Transform.

IP PA System

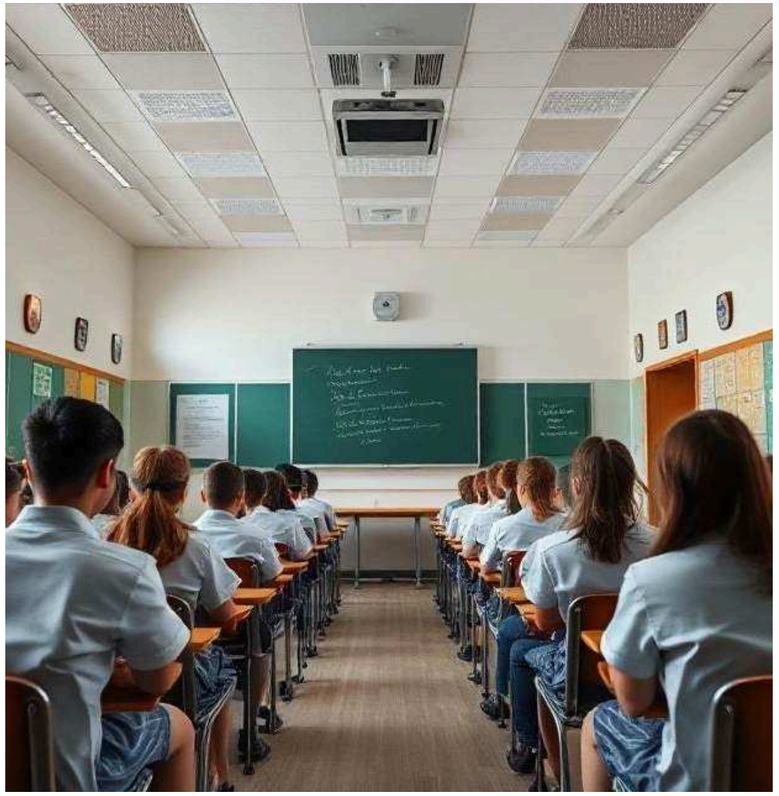
For schools & colleges

Public address, intercom and bell scheduling for a connected campus.



One system for campus communication

Bring public address, intercom and bell scheduling together in one easy-to-use platform.



Built on SIP / VoIP

- Live campus announcements
- Targeted paging by zone
- Instant emergency alerts
- Automated bell schedules
- Integration with existing systems
- A scalable platform
- Cost-effective deployment

For schools, colleges and large education campuses.

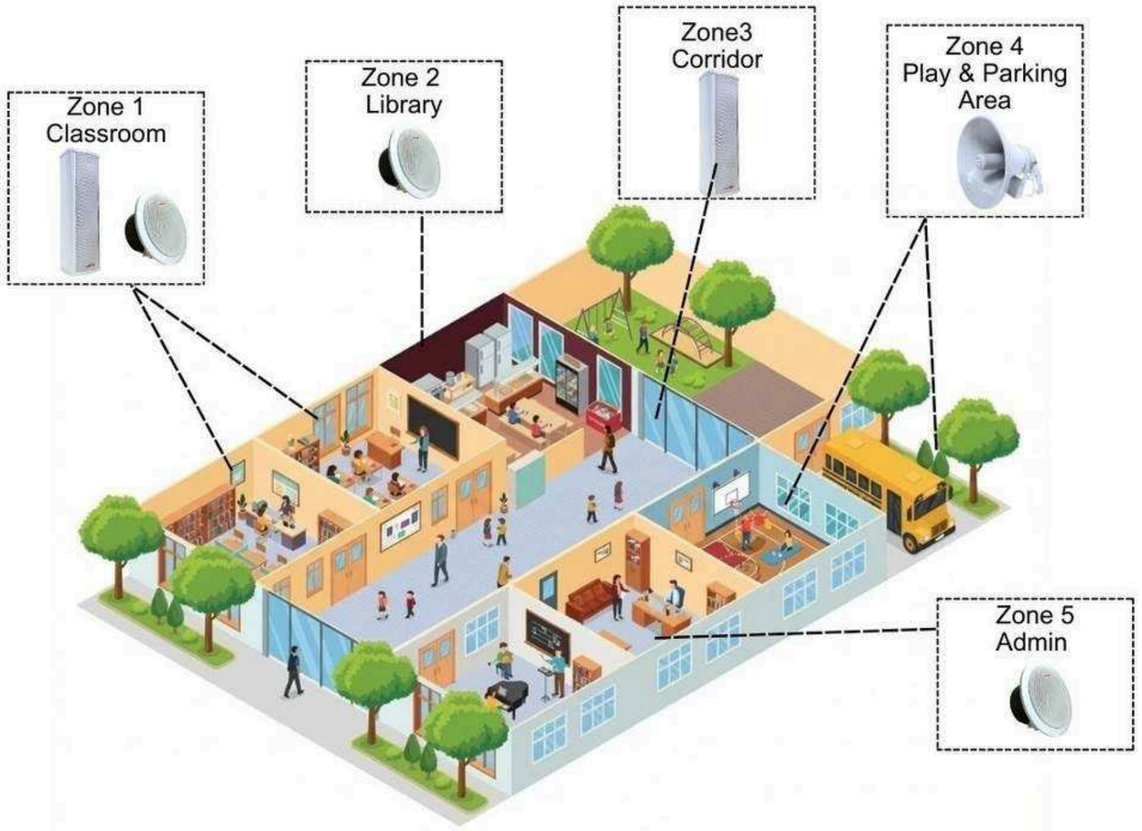
Paging zones and announcements

Zones that match your campus

Create unlimited zones for buildings, departments, libraries or individual floors. Broadcast to one zone or the whole campus.

Live or scheduled broadcasts

Make announcements using IP phones or mobile devices on the campus network. Schedule messages for holidays, exams or other events.



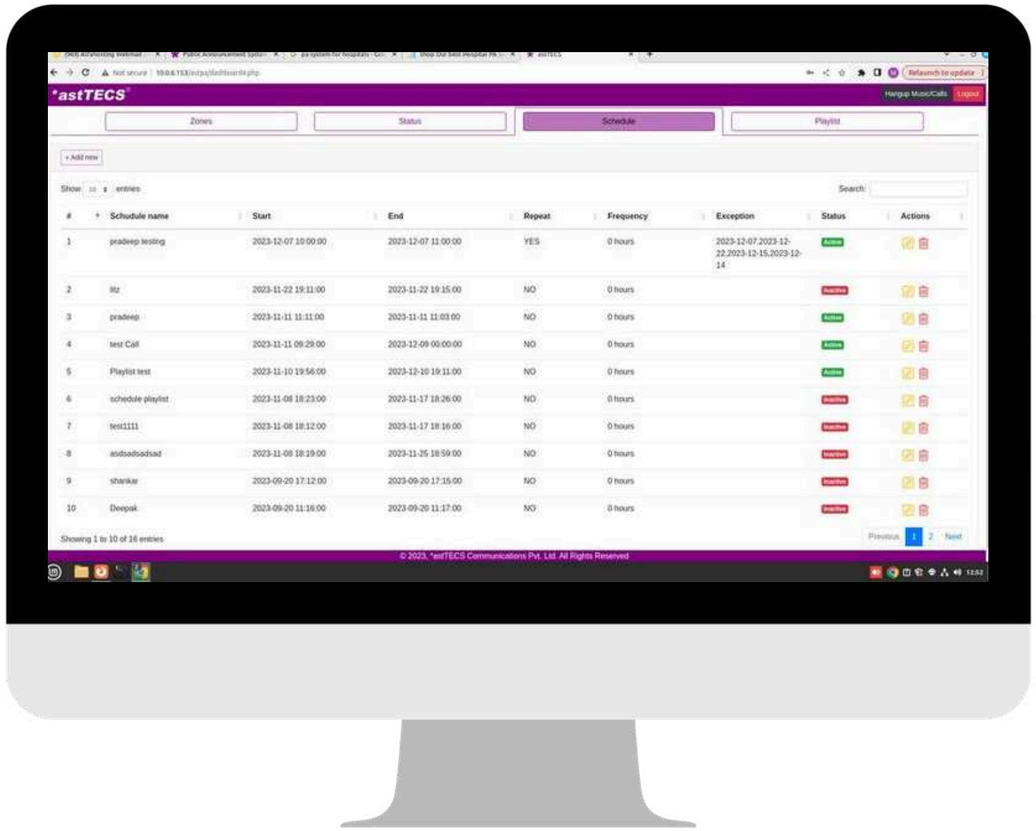
Bell schedules and timetables

Automated bell schedules

Set different bell schedules for regular school days, holidays and exam sessions through the web portal.

Timetable module

Use profiles to schedule announcements for individual classes or departments, including messages that run at the same time.



Emergency alerts and secure control

One-touch emergency alerts

Trigger preset messages for fires, natural disasters and other emergencies so staff can communicate instructions quickly.

Centralised control

Manage campus audio from one secure dashboard, with user permissions and event logs.



Safety system integration

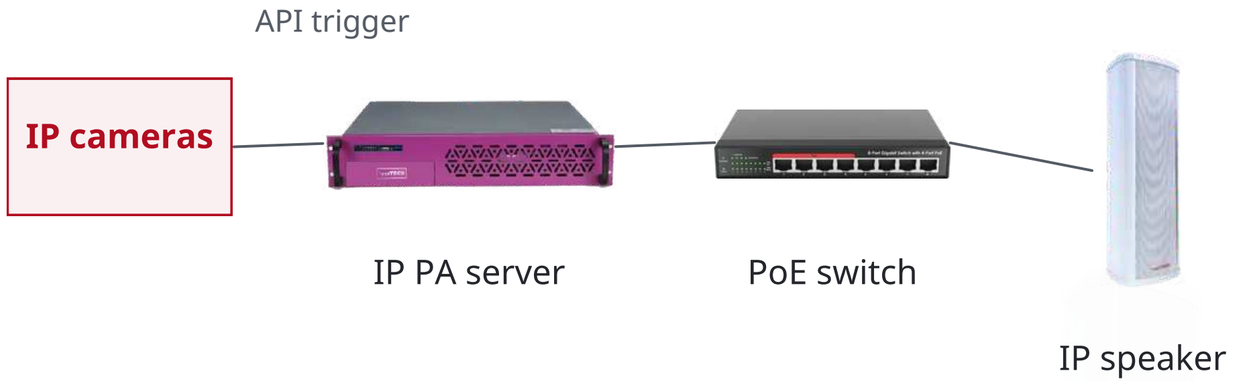
Fire alarms and IP cameras

Connect compatible surveillance and fire alarm systems to support automated audio alerts and coordinated incident response.

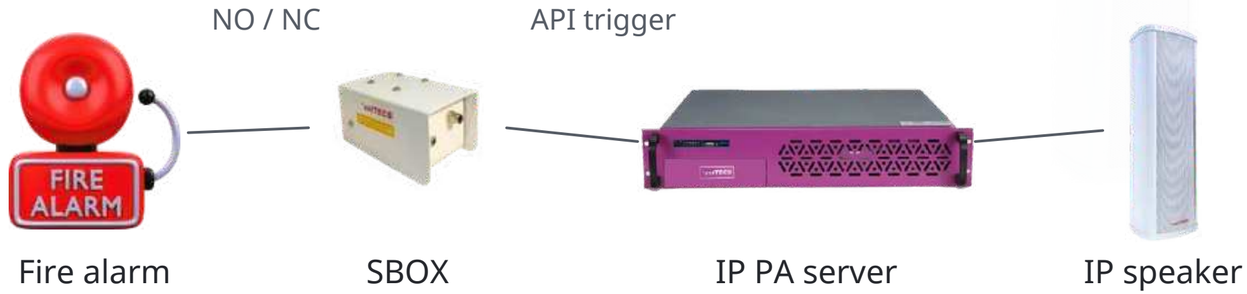
Open API integration

Use open APIs to trigger announcements from compatible third-party systems.

IP camera event



Fire alarm event



One dashboard for campus audio

100+

classrooms from one dashboard

View live speaker status, adjust volume centrally and start announcements with one click. Manage bell schedules and alerts in the same place.

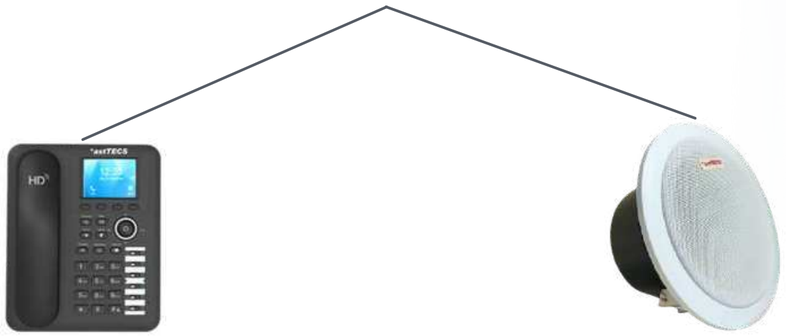
IP PBX and public address together

Reduce hardware and simplify day-to-day operation.

IP PBX + IP PA

One communication platform





IP phone

IP speaker

Network architecture

Server room



IP PA server



LAN switch



ast 521 IP phone

Operator interface

PC



Gooseneck microphone

Zone 1





Wall speakers

Zone 2





Horn speakers

Zone 3





Ceiling speakers

Example ID: 1000

Example ID: 1001

Single-campus installation

Connect IP phones, the PA server and speakers through a PoE switch.



IP phone

PoE switch





Wall speaker



IP PA server



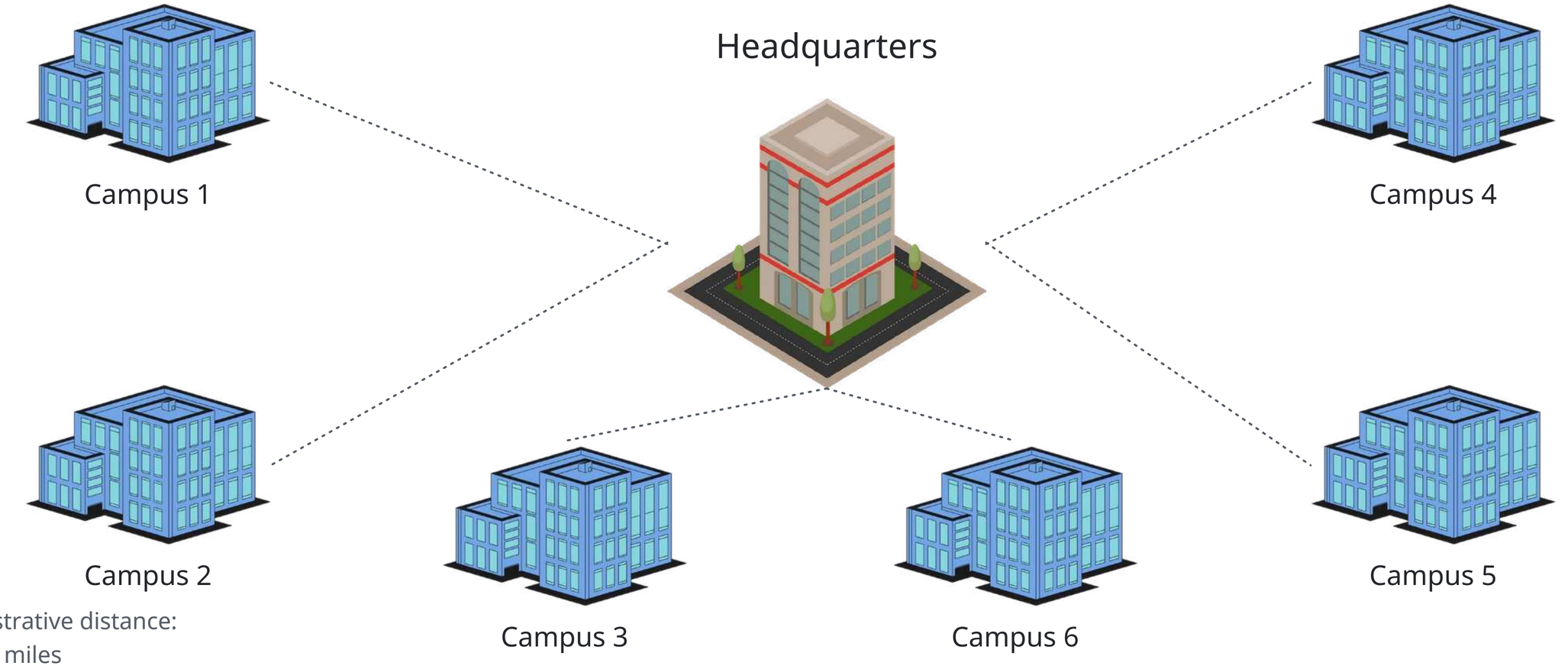
Horn speaker



Ceiling speaker

Broadcasting across multiple campuses

Central announcements from headquarters to remote sites.



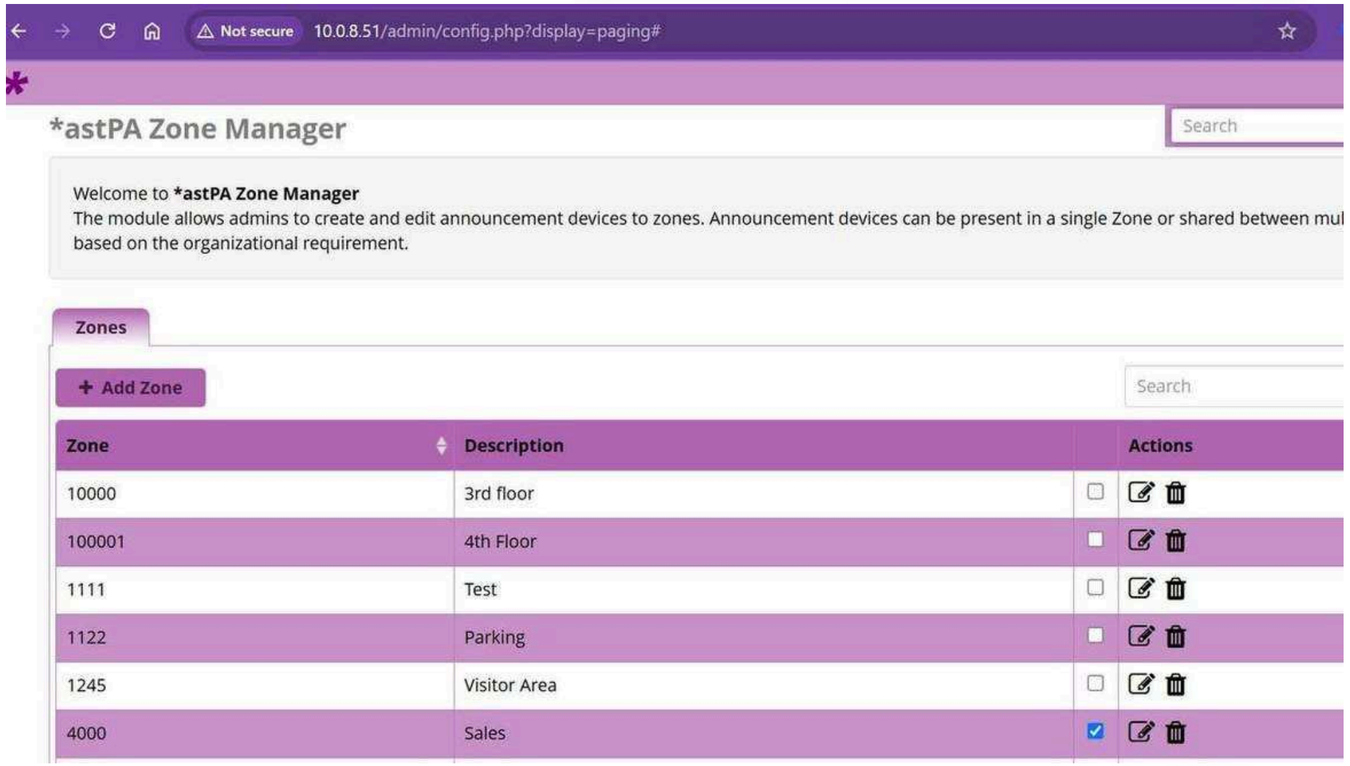
Illustrative distance:
500 miles

Web administration

01 Add announcement units

02 Create and delete zones

03 Add announcement units to existing zones



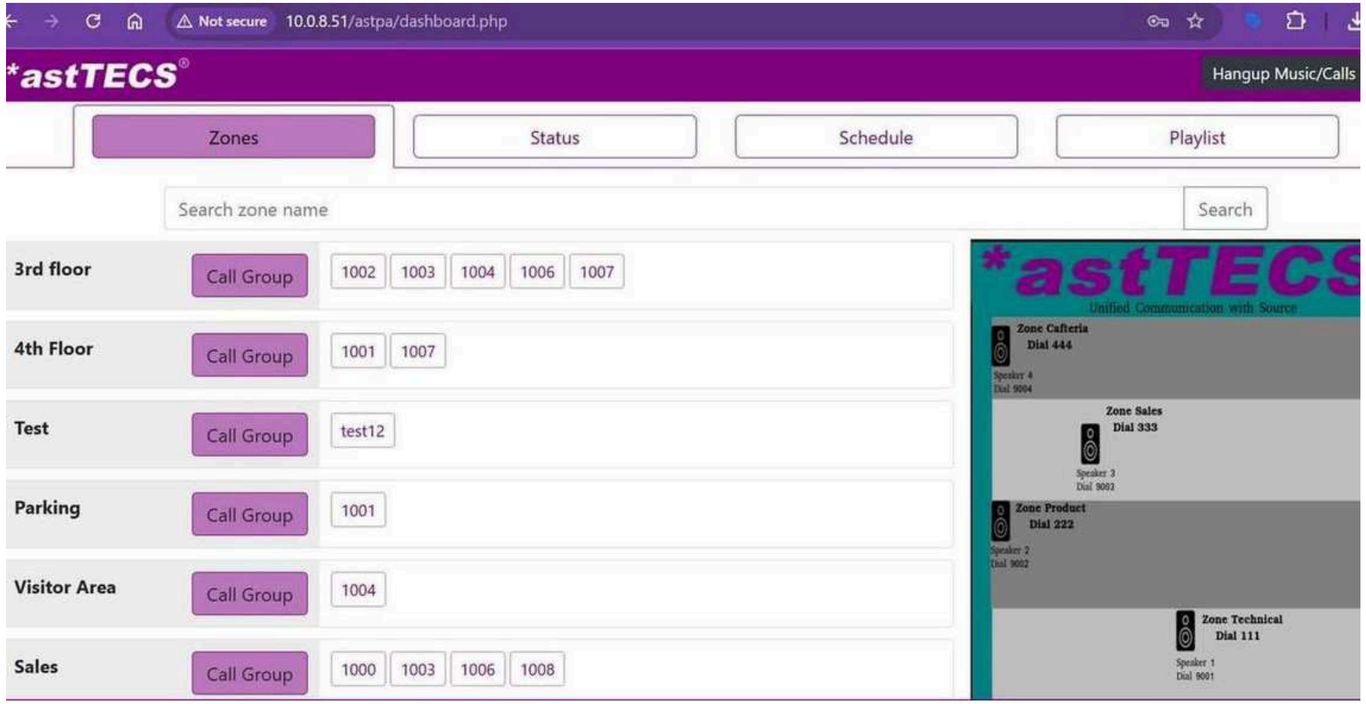
Web manager interface

01 View live speaker status

02 Make announcements by zone

03 Schedule announcements

04 Create playlists



Announcement devices

Choose a device that suits the way your team works.



IP phone



IP phone with gooseneck microphone



Push-to-talk device



Mobile phone



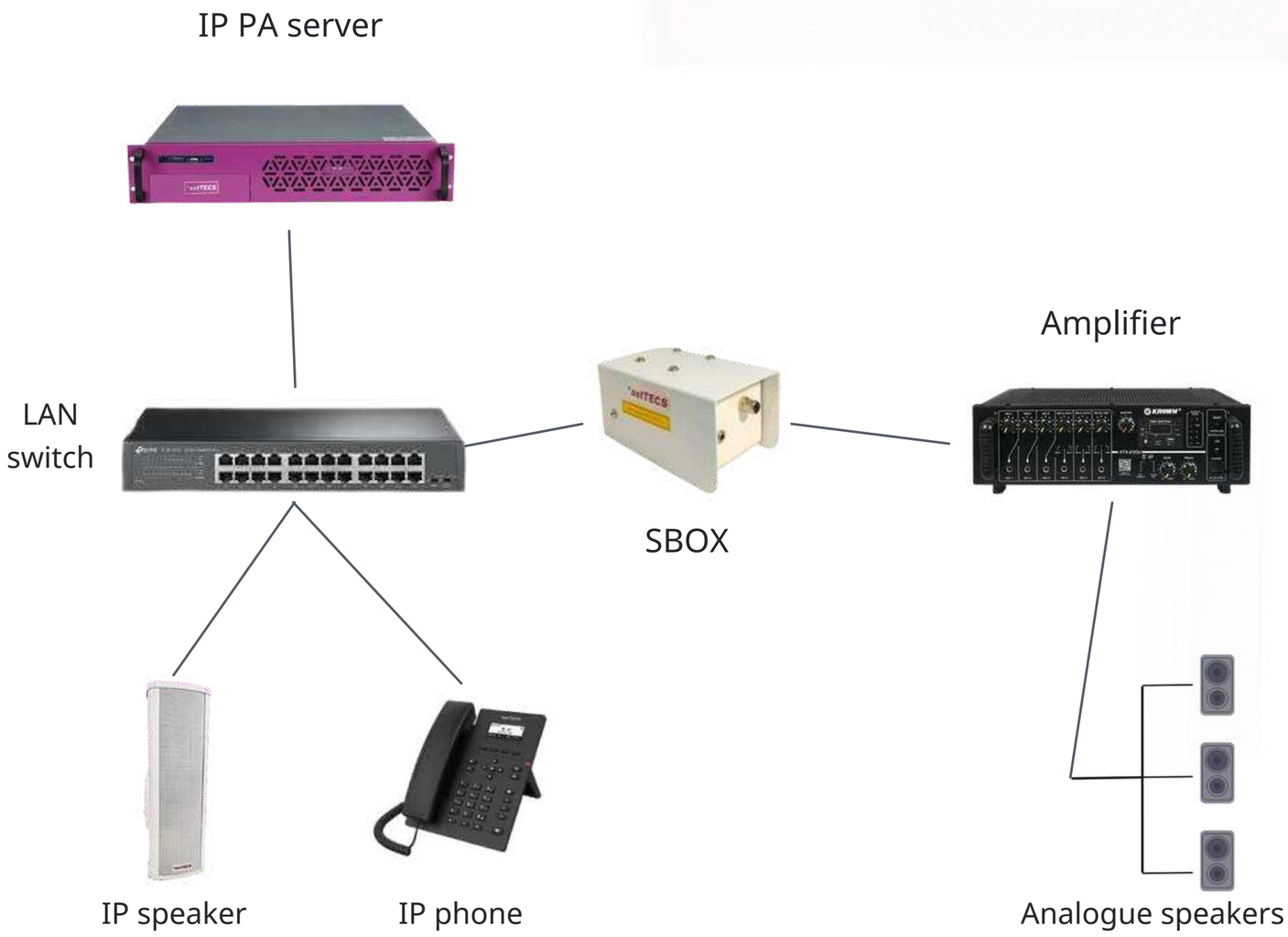
IP phone with touch interface

SBOX for existing analogue speakers

Keep your existing speakers

Connect analogue speakers to the IP network through the SBOX and an amplifier.

- Schedule announcements
- Integrate with IP speakers
- Make announcements from IP phones



IP speakers

Speaker formats for different spaces.



Wall speakers



Ceiling speakers



Horn speakers

Automatic volume adjustment

Optional ambient noise detection adjusts speaker volume as surrounding noise rises or falls, helping announcements remain audible.

Higher noise
Higher volume

Lower noise
Lower volume



Useful in busy public spaces

Bus stations
Railway stations
Government offices
Public areas

Why schools choose IP public address

Analogue



IP / PoE



PoE connectivity
One cable carries power and data.

Flexible announcements
Use supported devices across the IP network.

Targeted paging
Address a zone or an individual speaker.

Custom broadcasts
Set messages by department, building or time.

Scheduled audio
Automate routine announcements and alerts.

Easy expansion
Add IP speakers as your campus grows.

Remote access
Manage the system through a network connection.

System integration
Connect compatible cameras, fire alarms and access control.

Combined IP PBX and PA
Manage calling and paging on one platform.

Independent speakers
A single speaker fault does not stop the others.

What this means for your school

Faster emergency response

Share urgent instructions across the campus quickly.

Better internal coordination

Keep staff and departments informed throughout the school day.

Direct communication

Use a talkback microphone for direct communication.

Clearer classroom messages

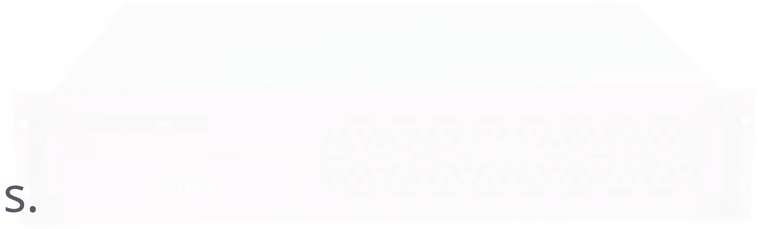
Deliver announcements to the classrooms that need them.



Built for smart classrooms

Product models

Choose a model to match your speaker count and concurrent sessions.



Feature	astPA100	astPA500	astPA1000
Speakers supported	100	500	1,000
Concurrent sessions	10	50	100
Call recording	Up to 3 months	Up to 3 months	Up to 3 months
Deployment	Single or multiple sites	Single or multiple sites	Single or multiple sites
Manager interface	Included	Included	Included
Admin interface	Included	Included	Included

ABOUT US

ABOUT MIRALOYD

INTEGRATED TECHNOLOGY SOLUTIONS

Miraloyd Global Consult Limited is an integrated technology solutions provider that designs, deploys and supports communication, connectivity, software and IT infrastructure for businesses, institutions and public-sector organisations. Our work helps people communicate better, keeps offices and remote locations connected, supports the development of digital systems and strengthens the IT infrastructure behind everyday operations.

Services include unified communications, internet connectivity, software and digital solutions, cloud and data centre infrastructure, cybersecurity, backup and disaster recovery. We also provide managed IT services and technology consulting.

Communications is a core part of our work. Our services cover cloud and on-premises IP telephony, contact centre solutions, customer engagement platforms and mobile communications. We also provide IVR, voice services, AI-powered communication and collaboration tools.

We provide the networks and infrastructure that keep offices, staff and systems connected. We also develop and integrate software, digital tools and AI solutions to improve business processes and connect the systems an organisation uses.

COMMUNICATE

Unified Communications

CONNECT

Connectivity& Internet

BUILD

Software,Digital & AI

TRANSFORM

Cloud,Infrastructure & IT

MGCL
Miraloyd Global Consult Limited
Communicate. Connect. Build. Transform.

*astTECS®
Unified Communication with Open Source
ISO 9001:2015 CERTIFIED

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