EGi
AUDIO SOLUTIONS

MILLENNIUM iP

- 🔊 **PA SYSTEM**
- 🔥 **EN 54**
- 📍 **IP AUDIO**
- 🎤 **PROFESSIONAL**
- 📍 **ASSISTANCE**
- 🏠 **RESIDENTIAL**

www.egiaudio.com

EGi
AUDIO SOLUTIONS

Do you need a sound project?

Contact us and we will help you make it happen.

EGi is a Spanish and European manufacturer that offers a**udio solutions for all types of spaces**. Our aim is to present our customers with customised solutions for each project.

The EGi team specialises in providing audio solutions for hotels, hospitals, residences, houses, factories, supermarkets, shopping centres, schools... **Our technical department works closely with clients to meet the specifications and needs of each project.**

We are committed to providing our customers with the audio solution they need using our **innovative and high-quality products** manufactured entirely in our factory in Zaragoza, Spain.
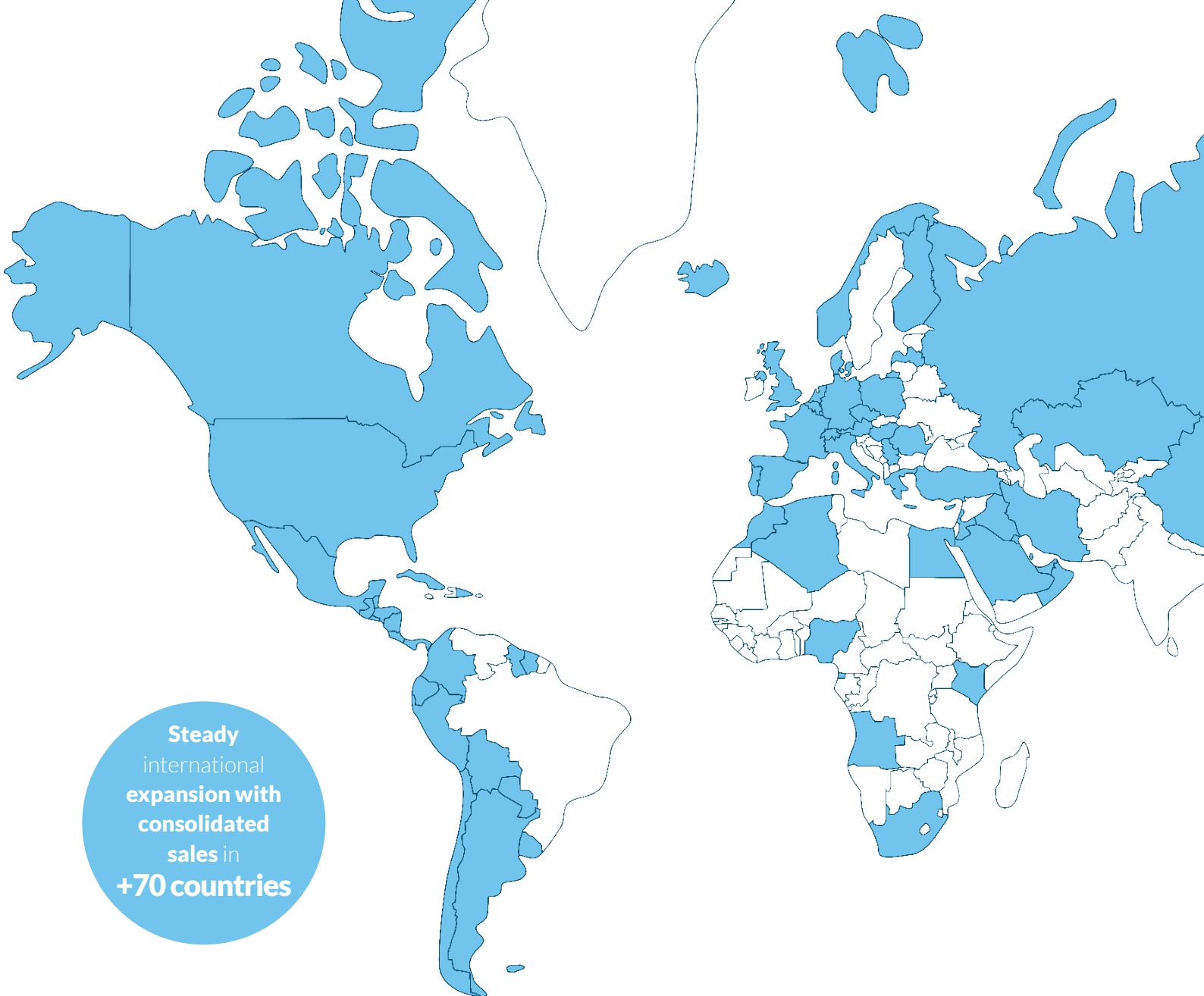
- ☑ Tailor-made projects.
- ☑ Complete solution for all hotel rooms.
- ☑ The best sound quality at a competitive price.
- ☑ Personalised attention during all stages of the project.
- ☑ Extensive product catalogue.
- ☑ More than 40 years of experience

Commercial support:
export@egiaudio.com
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INDEX

*Interactive index

Steady international **expansion with consolidated sales** in **+70 countries**

IN EGI WE ARE ENDORSED BY:

+40 years working to give you the best audio solutions

Fast and personalised customer service

Instalations and projects worldwide

Design & production **Made in Spain**

Wide range of produts

Highly experienced team

Continuous customer **training**

Major investment in R&D

Quality assurance

We adapt our solutions **to your needs**

WHO ARE WE?

EGi Audio Solutions is one of the **leading Spanish manufacturers** of audio solutions, **public address, sound, Bluetooth modules and IP audio**, for the sound system of all types of infrastructures (residential and non-residential buildings, parking lots, tunnels, etc.), providing a **solution adapted to each client**. After more than 40 years, we are still **committed to innovation, training and growth, always guaranteeing the best quality of our products and services**.

Headquartered in Zaragoza, we have an **extensive sales network** at national level, with offices in Madrid and Barcelona, and at international level, reaching every corner of America, the Middle East, Europe, Asia and Australia. In this way we can offer **the best attention to each of our customers**.

We have a **customer service and technical-commercial assistance** dedicated to advising on projects and helping the customer to choose the most appropriate audio solution for each installation.

We have the **ISO 9001:2015 certificate**, which certifies our **quality management** system. The scope of this approval applies to the design, manufacture and after-sales service of electronic ambient sound and public address equipment for domestic, commercial, industrial and public installations.

In addition, EGi Audio Solutions has received the **PILOT Award for Logistics Excellence** from the Aragonese Development Institute and the **Award for the Best Telecommunications Company** from the Government of Aragon, among others.

Headquarters and factory in Zaragoza (Spain)

MILLENNIUM IP

All the advantages of IP audio & EGi sound quality

Millennium IP allows the design of distributed public address systems using an IP LAN or Ethernet network and standard protocols as the communications link. In addition, they allow the system to be used in data networks already installed for other purposes.

ADVANTAGES MANAGING MILLENNIUM IP

- **Access to different sound zones via telephones or SIP devices.**
  Talk on the phone to make public address announcements. The public address system becomes another extension.

- **Control by IP remote control 1212 and/or via an app.**
  Control the volume and channel selection thanks to our IP remote control 1212. In addition, it has a local Bluetooth input.

- **Microphone console for configurable, flexible and easy-to-use announcements.**
  With electronic ink display, making it easy to view from any angle.

- **We capture any audio from your computer to take it to the area you want.**
  Generate background music from any application on your computer or connect to a radio station.

- Control the audio and all the features of each of your zones in an easy way, with the **new computer application designed by EGi**.

- **Manage the installation from wherever you want.**
  Access to the system through any web browser or through our app to configure the volume, music and voice messages of the zones and environments from the same VLAN.

- **Different content for each zone.**
  Choose the channel you want from your network and send your content (online radio, playlists, messages, etc.) to the zone you want. It doesn't have to be the same everywhere!

- **Local audio input per additional zone.**

- **Adjustable volume in each zone or according to content.**
  Adjusts the volume of messages depending on ambient noise or message and schedules the volume to be turned on or off according to time preferences.

- **Priority-based management system.**
  Assign priorities according to your needs.

- **Up to 10 Multicast audio channels available.**

- **Send messages through the microphone IP console 1211.**
  Set up pre-recorded announcements or make them live.

- **Place an unlimited number of microphone IP console 1211** for announcements.

- **SMART PoE system.**
  PoE equipment adapts its power to the energy available in the network.

- **No demanding requirements on the data network.**
  Uses standard network protocols for communications, the network must be prepared for Multicast audio.

ADVANTAGES IN THE INSTALLATION OF MILLENNIUM IP

Intelligent system

In case of failure or disconnection the system lets you know.

In addition, there is no critical failure point because our IP audio system works without a central server.

The IP microphone paging console can communicate with each zone individually or with a group of zones, without affecting the rest.

Easy installation

To expand the number of zones (from 1 to more than 100), it is as easy as adding the receiver units without the need to modify the existing wiring.

Free and remote firmware updates

Keep your devices updated from anywhere thanks to the web server, the 1810 management software or a Firmware Updater.

Configuration flexibility

Adjust the installation according to your needs, integrating multiple applications, services and different audio sources.

Create as many channels as you need

Get the number of channels you need, always according to the network infrastructure. With a stereo or mono configuration so that each space has its own ambience.

Decentralised system

Place more than one control point or system control centre in your installation.

Compatibility

The system can be combined with Millennium PRO installations.

In addition, it is compatible with SIP endpoints, without the need for them to be point-to-point.
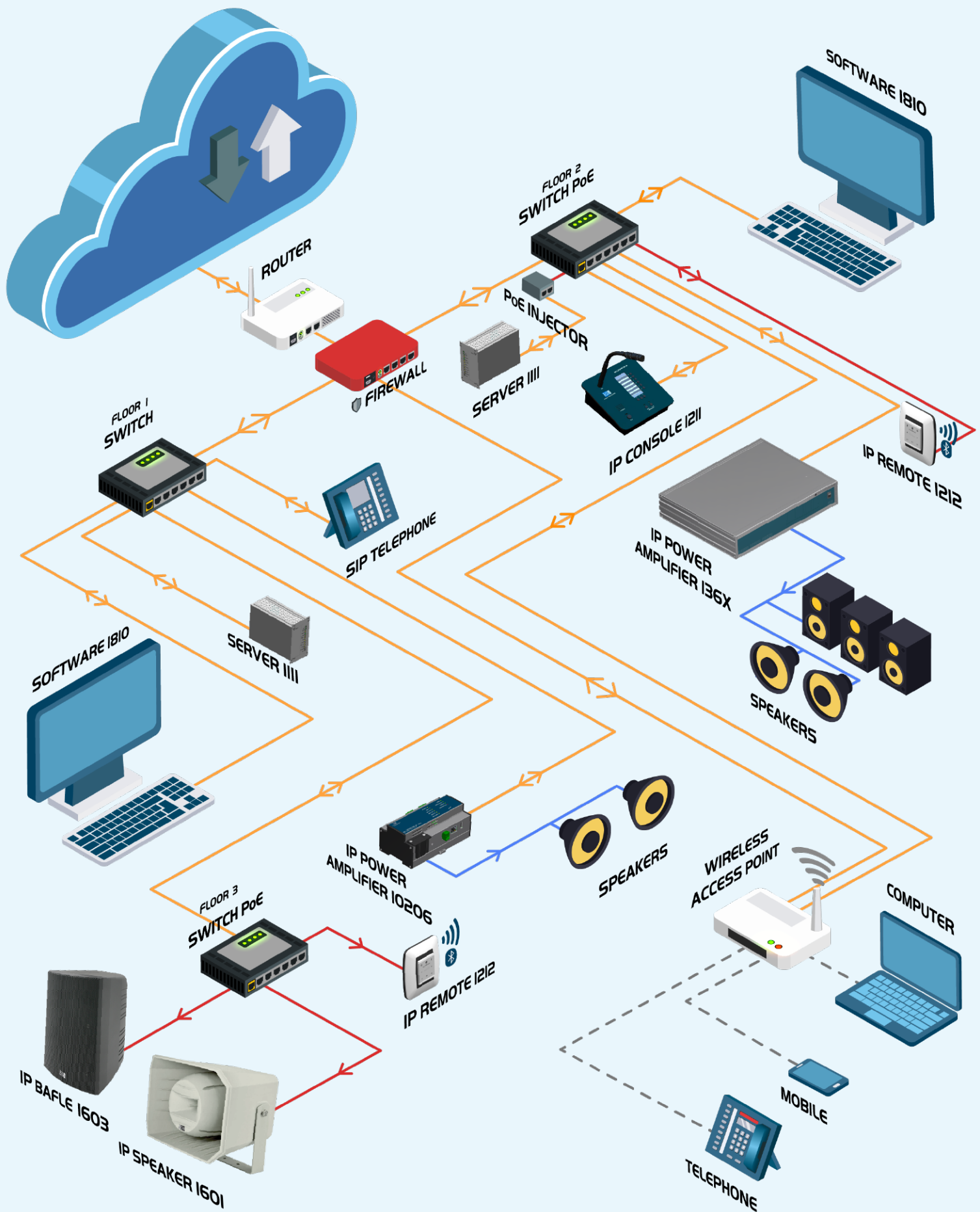
Low bandwidth

Uses less than 1 mbps per streaming channel and no contention with other devices on the network.

Uses multicast connections to further reduce network load.

SYSTEM ARCHITECTURE

SOFTWARE 1810

FLOOR 2
SWITCH PoE

ROUTER

PoE INJECTOR

SERVER 1111

IP CONSOLE 1211

FIREWALL

IP REMOTE 1212

FLOOR 1
SWITCH

SIP TELEPHONE

IP POWER
AMPLIFIER 136X

SPEAKERS

SOFTWARE 1810

SERVER 1111

IP POWER
AMPLIFIER 10206

SPEAKERS

WIRELESS
ACCESS POINT

COMPUTER

FLOOR 3
SWITCH PoE

IP REMOTE 1212

MOBILE

IP BAFLE 1603

IP SPEAKER 1601

TELEPHONE

— Red Ethernet con alimentación PoE.   — Cable de audio rojo-negro 2x1.5mm (línea 100V).   — Red Ethernet UTP categoria 6.

SYSTEM FUNCTIONALITIES

■ **Music playback.**
Play music via playlist, internet radio or mp3 music playlists.

■ **Music distribution from iOS and Android.**
Our system is compatible with iOS and DLNA. Control and distribute music from tablet or mobile via web.

■ **Control and distribute music from MacOS and Windows.**
Control and distribute music from Mac or PC via web.

■ **IP messaging.**
The system features event scheduling, time scheduling, calendars and in/out control.

■ **Internet radio.**
Internet radio playback via the main protocols: ICECAST and RTMP.

■ **App for streaming.**
The computer app, designed and developed by EGi, allows to send the audio of any programme from the computer to the equipment, becoming a streaming channel.

■ **System programming.**
The Millennium IP system is easily programmed from the web on Mac, PC, tablet or mobile or dedicated PC app.

■ **Mobile App.**
The application, designed and developed by EGi, allows you to control each of the zones and play the music you want with a simple click.

■ **Local control of the zones.**
There is the possibility of having a physical remote control per zone connected via Ethernet.

■ **Small and large zones of low and high power.**
Our system adapts perfectly to small or low power zones, since the equipment can be distributed, satisfying all your needs. As well as larger high power zones.

■ **Audio matrix via IP streaming.**

SYSTEM COMPATIBILITIES

■ **The system is scalable.**
It supports multiple expansions of the installation at any time during its lifetime. Add as many call stations or music and PA zones as you need.

■ **PoE equipment.**
You can combine your installation with PoE switches or add PoE injectors and PoE splitters to the normal ones.

■ **GPON networks.**
Easily combine your Millennium IP installation with fibre optic GPON networks.

■ **Multicast networks.**
Our IP products send and receive audio over Multicast network channels.

■ **SIP communications.**
EGi IP equipment can communicate with PBXs and SIP phones if you have a point-to-point connection.

■ **Building Management System.**
Can be integrated in BMS (Building Management System) systems.

■ **Millennium PRO.**
The Millennium IP line is compatible and combinable with previous Millennium PRO installations.

IP remote
1212

NEW

IP RACK
ICP Module 1328
Switch
IP power amplifier 1362
Interface 1113
In terface 1111
IP power amplifier 10206

SYSTEM ELEMENTS

IP INTERFACES

Interface for message and music management via Ethernet networks. With 1 dry contact input and 1 dry contact output.

IIII

Interface for management of pre-recorded announcements and music. With 8 dry contact inputs and 8 outputs and integrated local clock.

III3

IP POWER AMPLIFIERS

IP audio power amplifier with 2x25 W stereo or 1x50 W mono power.

I0205

Mono DIN Rail IP Audio Power Amplifier.

I0206

IP Audio Power Amplifiers in 2U Rack format.

I36x

IP SPEAKERS

HiFi baffle with PoE power supply.

I603

HiFi speaker with PoE power supply.

I60I

CONSOLES, REMOTES AND ACCESORIES

PoE injector.

III2

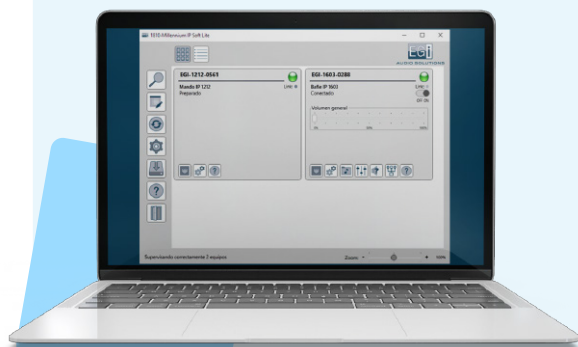IP Microphone Console for Multizone Announcements. With power supply, Display, Microphone and Message Recorder.

I2II

IP remote control. With PoE power supply for remote control and Bluetooth audio of Millennium IP zones.

NEW

I2I2

*Click on each product to find its data sheet.

MILLENNIUM IP SOFTWARE

MANAGEMENT PROGRAMME

1810

The management software, **designed and developed by EGi**, allows you to view the status and configure the services available in each zone of the installation.

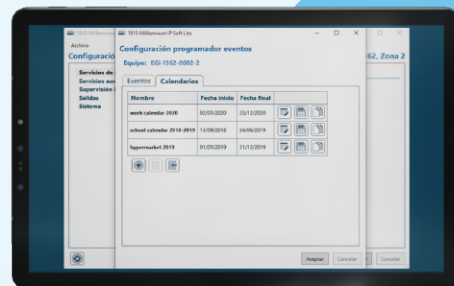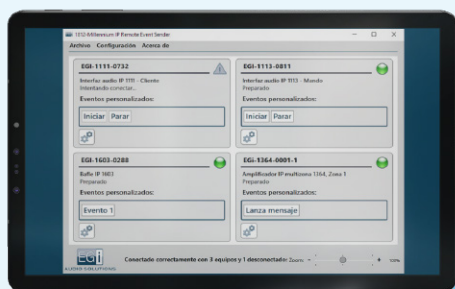Manage the updates of all your Millennium IP equipment from your computer, tablet or mobile phone via the web.

Easily set up the music or scheduling of recurring events according to your needs and play them on any of the Millennium IP devices.
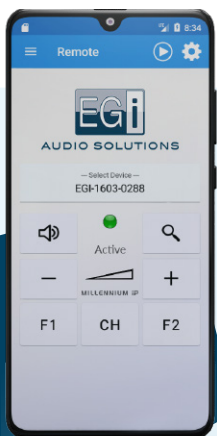
COMPUTER APLICATIONS

1812

The 1812 PC app has been **designed and developed by EGi**. It allows **events to be sent remotely to Millenium IP devices**. Events can be assigned to the devices to trigger alerts, start or stop music playlists or activate outputs even via VPN.

1813

The 1813 PC app, **designed and developed by EGi**, allows you to **select from which programme or application on your PC you want to play music** or pre-recorded messages, regulate the volume and select the device(s) you want to play them on.

PHONE APLICATIONS

NEW

1814

At EGi we have designed and developed a **simple and intuitive mobile app**. Control the music playback in our modules from your mobile phone, whatever it is (Android or iOS).

Select the device you want your music to play on and adjust the volume to your liking.

This application is **compatible with all Millennium IP equipment**.
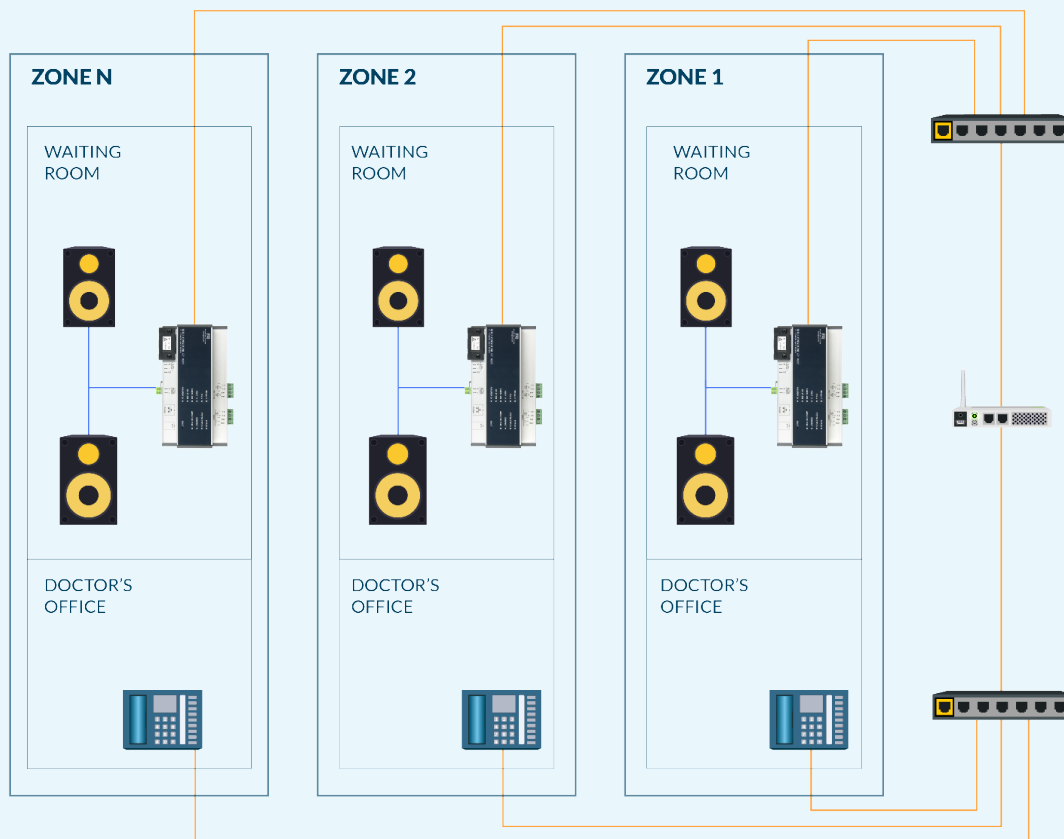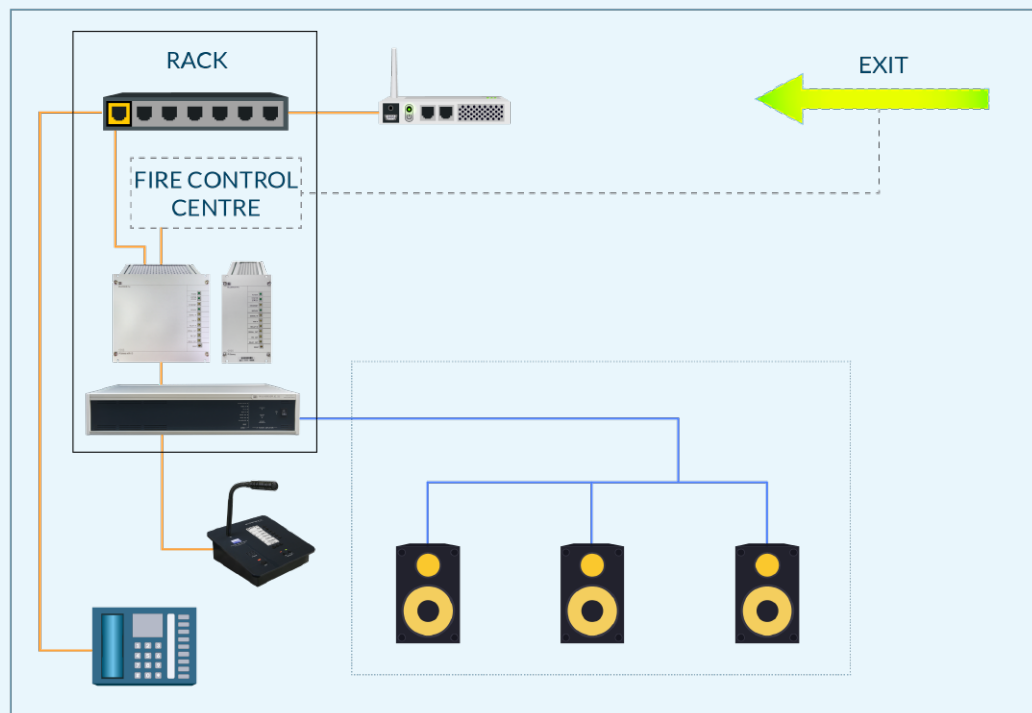
GENERAL DIAGRAMS

Example #1

The following diagram shows a **Millennium IP installation in an industrial building**, for example.

As well as programming warnings, thanks to the fire control panel and the interface 1113, we could program the emergency luminaire when the alarm sounds. This is possible as long as the building does not require EN54 standards.

Furthermore, in case of an emergency, our system gives priority to the alarm. That is to say, if music is playing, it would cut out and give way to the alarm.

Likewise, the installation is centralised and has a microphone IP console for announcements 1211, a power amplifier 136x and an server 1111.

To this installation we could add the loudspeakers of choice and a SIP telephone to make calls over the installed public address system.

RACK

FIRE CONTROL CENTRE

EXIT

Example #2

On the left is an **example of a Millennium IP installation in an area which could be a medical centre** or hospital consulting room.

Each of the SIP phones is connected to the building's LAN network and connects directly to the speakers in its area via a power amplifier 10206.

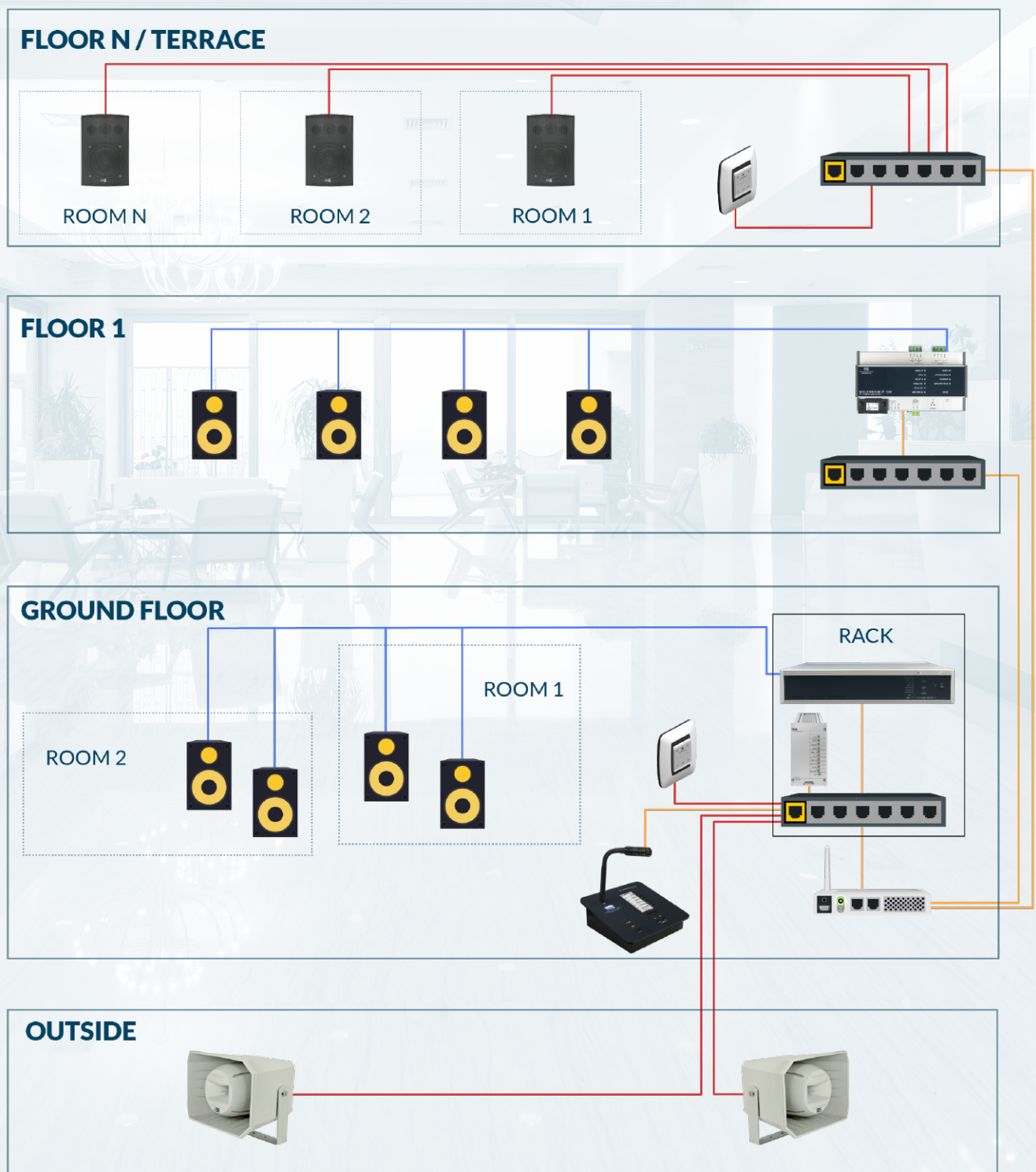ZONE N

WAITING ROOM

DOCTOR'S OFFICE

ZONE 2

WAITING ROOM

DOCTOR'S OFFICE

ZONE 1

WAITING ROOM

DOCTOR'S OFFICE

—— Ethernet network with PoE power supply.　　—— Red-black audio cable 2x1.5mm (100V line).　　—— Ethernet network UTP category 6.

Example #3

An example of a **multi-storey Millennium IP installation** can be seen below. We can highlight a main rack on the "ground floor" connecting the ground floor zones and the outdoor speakers.

On each floor we could find a single rack with a switch and a DIN-rail stage to power the floor speakers ("Floor 1"). In this way, we would not have the installation completely centralised in one point, but each floor would be "independent".

Another option would be to connect the different loudspeakers (1 per zone) and the control to a PoE switch ("Floor N / Terrace).

This example could be valid for a hotel, a school, a shopping centre, etc.

FLOOR N / TERRACE

ROOM N   ROOM 2   ROOM 1

FLOOR 1

GROUND FLOOR

RACK

ROOM 1

ROOM 2

OUTSIDE

━━ Ethernet network with PoE power supply.   ━━ Red-black audio cable 2x1.5mm (100V line).   ━━ Ethernet network UTP category 6.

PASEO ANDARIA SHOPPING MALL

Chimaltenango, Guatemala

This modern shopping centre was inaugurated on 28 October 2021. An innovative and cutting-edge complex in architecture and technology. Located in the city of Chimaltenango, Guatemala.

It has generated more than 1,500 jobs and hundreds of daily visitors can **enjoy the quality of the EGi Millennium IP professional sound installed** throughout the venue.

It features our IP speakers 1603, configured via software 1810.

In addition, the sound management has been centralised thanks to our microphone IP console for announcements 1211 and server 1113, allowing to control the playback of music, pre-recorded or live messages, etc... in a simpler way.

TRADE FAIRE

Zaragoza, Spain

The Zaragoza Trade Fair is one of the leading trade fair organisations in Spain and many of the events it holds are at the forefront of the international trade fair scene in Europe.

IP interfaces 1111 and 1113 have been installed in its premises, together with the microphone IP console for announcements 1211. All of this is configured via software 1810. In this way, **they can send messages or play music in the required areas**.

Future extensions of this installation will include the addition of IP stages together with 100V line loudspeakers.

BUSINESS CASE

CASTLE OF VALDERROBRES

Teruel, Spain

The Castle-Palace of Valderrobres, an Asset of Cultural Interest, is a defensive construction built between the 12th and 14th centuries.

EGi Millennium IP professional sound has been installed in its rooms. It has our IP loudspeakers, configured via 1810 software.

In addition, the control of the speakers 1603 has been centralised thanks to our IP microphone console 1211 and the server 1113, allowing to **control the playback of music, pre-recorded or live messages, etc...** in a simpler way.

SAN JUAN DE DIOS HOSPITAL

Curicó, Chile

This centre provides health care for 300,000 people in the Curicó area and has 400 beds.

The **power amplifiers** installed in this hospital can receive **messages and music over the internet** thanks to the microphone IP console for announcements 1211 and the modules 1111, which simulate a SIP PBX.

DECATHLON LOGISTIC CENTRE

Barcelona, Spain

This Decathlon logistics warehouse in the free zone and next to the port of Barcelona, with a surface area of almost 96,000m2, is one of the largest and most sustainable in the country.

It has a Millennium IP installation that facilitates the **launch of alerts** (pre-recorded or live) thanks to the IP microphone console for announcements 1211.

BOTANIKA OSA PENÍNSULA HOTEL, CURIO COLLECTION BY HILTON

Puerto Jiménez, Costa Rica

This luxury hotel in Costa Rica opens in May 2022.

This hotel has the need to install **piped music in its facilities, music in the rooms and announcements**.

All this has been achieved with modules 1111 and an evacuation centre for emergency announcements, remotes to **control the music in each room** and a microphone IP console for announcements 1211 to **programme the music and the rest of the messages in the common areas** of the facilities.

ESPAÑA HOSPITAL

Chinandega, Nicaragua

The Hospital España in Chinandega provides healthcare for more than 500,000 people in Nicaragua.

It has a **professional EGi Millennium IP sound** installation with which **music and messages can be programmed** thanks to the microphone IP console for announcements 1211 and the modules 1111 installed in the hospital.

PABLO SERRANO HIGH SCHOOL

Zaragoza, Spain

Bilingual Institute (Spanish-French) of Secondary Education, High School and Vocational Training in the city of Zaragoza.

It has a Millennium IP installation to be able to **programme the daily alerts** that are given at the school.

FAMILIAR COMMUNITY HEALTH HOSPITAL

Alto Hospicio, Chile

The latest hospital built in the Alto Hospicio area has a capacity of 235 beds.

Now, with the power amplifier 10205 and SIP phones, **the facility can broadcast alerts to the waiting rooms**. In addition, it can **programme pre-recorded announcements or broadcast them live** and play music throughout the hospital thanks to a microphone IP console for announcements 1211 and software 1810.

MELIÁ TRINIDAD PENÍNSULA HOTEL

Trinidad, Cuba

The **Meliá Hotels International group** opens its new hotel in **Cuba** in 2022. With this installation, **EGi professional sound lands on this Caribbean coast**.

This hotel is divided into long and distant zones and each one is independent from the others thanks to the IP 136x stages, decentralising the system. **General messages can be programmed and sent and music can be played in all zones** thanks to the microphone IP console for announcements 1211 and the software 1810.

MILLENNIUM IP COMPATIBILITIES WITH

MILLENNIUM PRO

The Millennium PRO system combines performance, **flexibility and convenience in the use of decentralised systems** with the simplicity of 100V line public address systems.

It allows the creation of mixed installations where it is possible to combine the choice of several independent music programmes for each room, with the broadcasting of messages from traditional microphone consoles or from any telephone terminal connected to the telephone switchboard with priority over the music.

Millennium PRO features

Modular system **tailor-made** for each installation

Very flexible and **easily expandable**.

Up to
127
zones.

Up to
4 audio channels
plus announcements

Intercommunication between zones.

Broadcasting of **live messages** via the control console or telephone.

Background music control by zones or areas.

Broadcasting of pre-recorded messages.

Local connection of microphones or external audio sources.

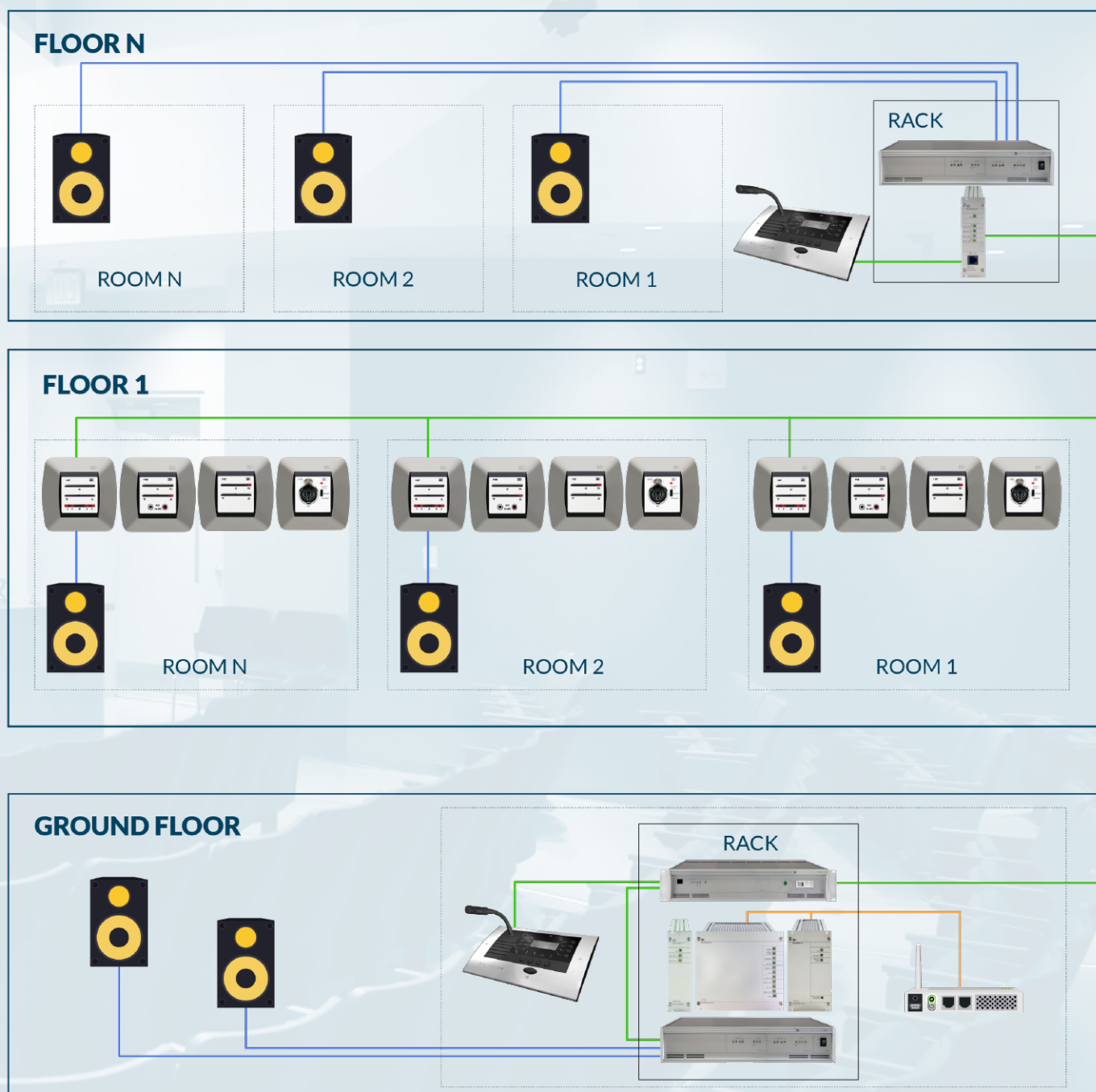**Control** of the entire installation **via console or PC.**

Example 1

Below, there is an **example of a Millennium PRO installation with an extension thanks to the Millennium IP system**.

The most common combination of both systems would be to add a module 1113 in the main rack. In this way, calendars can be programmed, evacuation or information messages can be incorporated, etc.

This example could be used for schools, hotels, fire stations, gyms, etc.

There are many different types of extensions. All of them are possible by consulting our technical-commercial team.

FLOOR N

ROOM N   ROOM 2   ROOM 1   RACK

FLOOR 1

ROOM N   ROOM 2   ROOM 1

GROUND FLOOR

RACK

BUS EGi 1507   Red-black audio cable 2x1.5mm (100V line).   Ethernet network UTP category 6.

BUSINESS CASES

CORONA DE ARAGÓN ATHLETICS STADIUM

Zaragoza, Spain

AMAZON LOGISTICS CENTRE

El Prat de Llobregat, Spain

FIRE STATION OF AZUQUECA

Azuqueca de Henares, Spain

PLAZA MAR 2 SHOPPING MALL

Alicante, Spain

PIERRE DESCHAMPS FRENCH LYCÉE IN ALICANTE

Alicante, Spain

LAURA OTER SPORTS COMPLEX. SKATING PAVILION.

Tres Cantos, Spain

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