AluaSoul Mallorca Resort

1. Installation Requirements

Placed upon Egos creek, **AluaSoul Mallorca Resort** is one of the most exclusive hotels within the Balear archipelago. Constituted by 2 independent buildings, the complex is separated by the creek and the pool areas.

The sound system installation has been set up using **Ecler** devices entirely. The hotel requirements included managing 3 different types of background music, paging console and prerecorded voice messages.
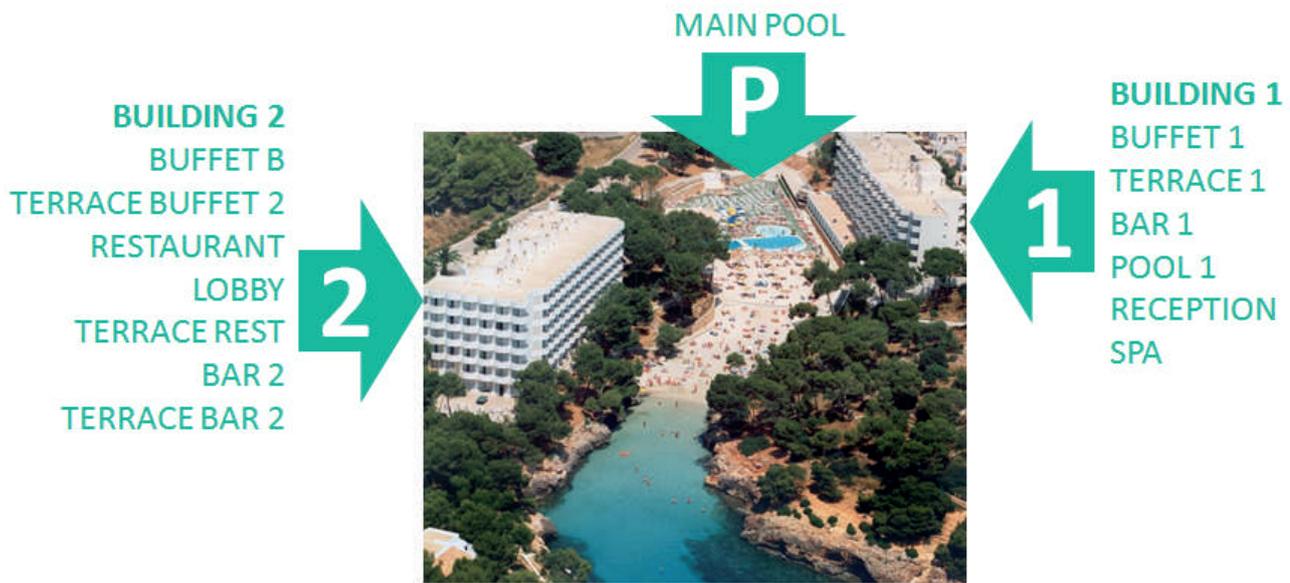
The audio signals coming out from the sound sources have been distributed across the entire zoning Project with a simple and perso-nalized management system.

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To achieve this, our Project Department along with Estel Company designed an **EclerNet Manager** layout to manage the sound system of each zone using a Local Area Network.

The peculiarity consisted in trying to connect both buildings taking in consideration the distance between them and the single optical fiber cable which linked them. Aside from that, a new cabling system was not viable.

MAIN POOL

P

BUILDING 2
BUFFET B
TERRACE BUFFET 2
RESTAURANT
LOBBY
TERRACE REST
BAR 2
TERRACE BAR 2

2

BUILDING 1
BUFFET 1
TERRACE 1
BAR 1
POOL 1
RECEPTION
SPA

1

2. Adopted solution

Taking this in account, audio over IP using DANTE™ protocol was the best fit thanks to a non-compressed signal transmission and lower latency through CAT5 or optical fiber cables. Therefore, this solution represented taking advantage of preinstalled resources with a positive impact on installation costs.

Two **DN44BOB** digital interface units were installed for analogue-digital signal conversion purpose before transmitting those signals from one building to the other

This device, which has been installed in world renowned places such as San Siro Stadium at Milan, is an audio over IP interface using DANTE™ protocol with 4 channel inputs and 4 channel outputs.

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3. Implementation

Two **MIMO88** digital audio matrixes, each of them placed on each of the Resort buildings, are handling the signal distribution across all hotel zones.

MIMO88 is a digital audio matrix incorporating 8 inputs and 8 outputs, easily programmable through EclerNet Manager Software. It features a powerful DSP engine and the possibility of integration with third party devices using TP-NET protocol.

Three **DUO-NET PLAYER** have been appointed to deliver background music contents and prerecorded voice messages. Thanks to their compatibility with EclerNet Manager and TP-NET, DUO-NET Player is a perfect companion for the MIMO88 digital audio matrix.

DUO-NET Player features two independent stereo players, capable of reproducing online radio, apart from locally stored or online located audio contents. Also features a calendar trigger events based on scheduling audio messages with date and time.

4. Personalized user's screens

Seven **WPmSCREEN** digital panels and three **WPTOUCH** panels were strategically distributed across the facilities for zone's monitoring.

On the right, a UCP (User Control Panel) personalized for the restaurant area is shown; it includes 4 source selection buttons, a MUTE pad and volume control fader.

Through **Ecler UCP App**, user area allowed to select the sound source and volume levels from their Android/iOS devices.

The installation also allows triggering voices messages to any installed zone by using a gooseneck **eMNC2** along with a **WPmSCREEN** panel connected to the network acting as a paging console, as shown in the picture in the left corner.

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5. Loudspeakers and amplifiers

The Installation was completed placing two-ways **IC6** in-ceiling loudspeakers with discreet aesthetics for indoor placement, while the outdoors where the perfect place for the two-ways **AUDEO106** acoustic cabinets.

AUDEO106 features an elegant design apart from IP54 certification, main reasons why they were chosen for this purpose.

The 4 linkable channels **HZA4-120F** amplifiers equipped with SPM 100 Technology – Channel N and the high efficiency **eHSA2-150** and **eHSA4-150** amplifiers were chosen to supply with amplified signal all the loudspeakers previously mentioned.

Ecler has been manufacturing professional audio solutions for more than 50 years. In the last 10 years, it has participated in more than 100.000 projects in retail sector, hospitality, education, corporate, leisure, health & sports and religious centers.

If you want know about them, check:

https://ecler.com/references

ECLER PROAUDIO, SL.
Phone: (+34) 932238401
Mail: marketing@ecler.es