



Freedom to communicate



ERMES story – 1

ERMES started its activity in 1990 by developing and producing a complete range of CCTV apparatuses as video switchers, large video matrices, multiplexers, digital video recorders.



Today ERMES has changed its production completely but a trace of the previous activity remains in the range of high quality housings for CCTV cameras that ERMES continues to produce.

The offer of ERMES includes:

- Housings made in aluminium with and without cable management.
- Housings entirely made in stainless steel for marine and corrosive environments.
- Housings cooled by water and/or air for industrial areas with high temperature.



ERMES story – 2

At the beginning of years 2000, the change in the market caused by the presence of the competitors coming from Far East pushed ERMES to leave this market and to use the experience of its engineers in a completely new field.

The management of ERMES identified the audio communication market as an interesting field where to apply the experience of its engineers.

ERMES started to develop a complete range of apparatuses suitable to make systems as intercom, public address or similar but with a completely new point of view. ERMES chose to use the IP protocol and the LAN only to connect the apparatuses.



Today ERMES is a benchmark in the market of the communication over IP where brought significant innovations like the adoption of IP native apparatuses and the use of Peer To Peer communication techniques.



ERMES story – 3

ERMES offers a complete range of apparatuses that represent the state of the art in the field of the communication over IP which allow you to make:

- Intercom systems (ring and selective).
- Public Address systems.
- Door entry systems (audio and video).
- Emergency call systems (Emergency Call Pillars).

Moreover, ERMES developed apparatuses over IP specially designed for the railways field suitable to be used in a complete range of systems that allow you to make the announcement in the stations by remote, to control completely the lifts and the escalators by remote and to make the supervision of the grade crossing by remote.

Lastly, ERMES produces apparatuses for PIS (Passenger Information System) that meet the regulations EN50155.

Audio/Video system Technology Power and Innovation

Security Innovation

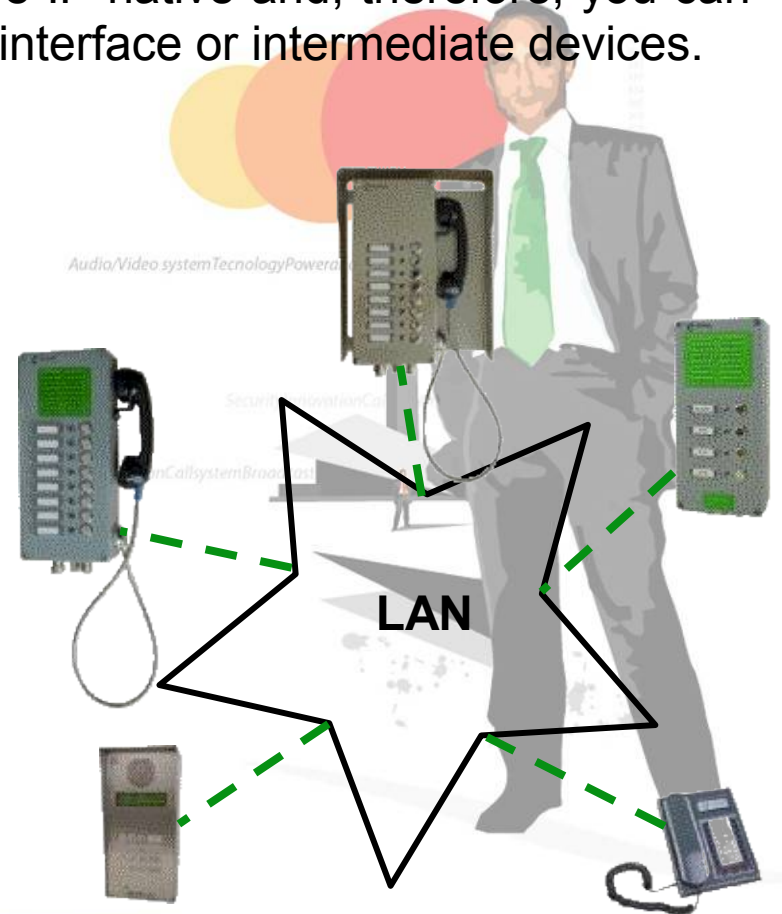
Quality

Peer-To-Peer communication - 1

All the apparatuses developed by ERMES are IP native and, therefore, you can connect each unit to the LAN directly without interface or intermediate devices.

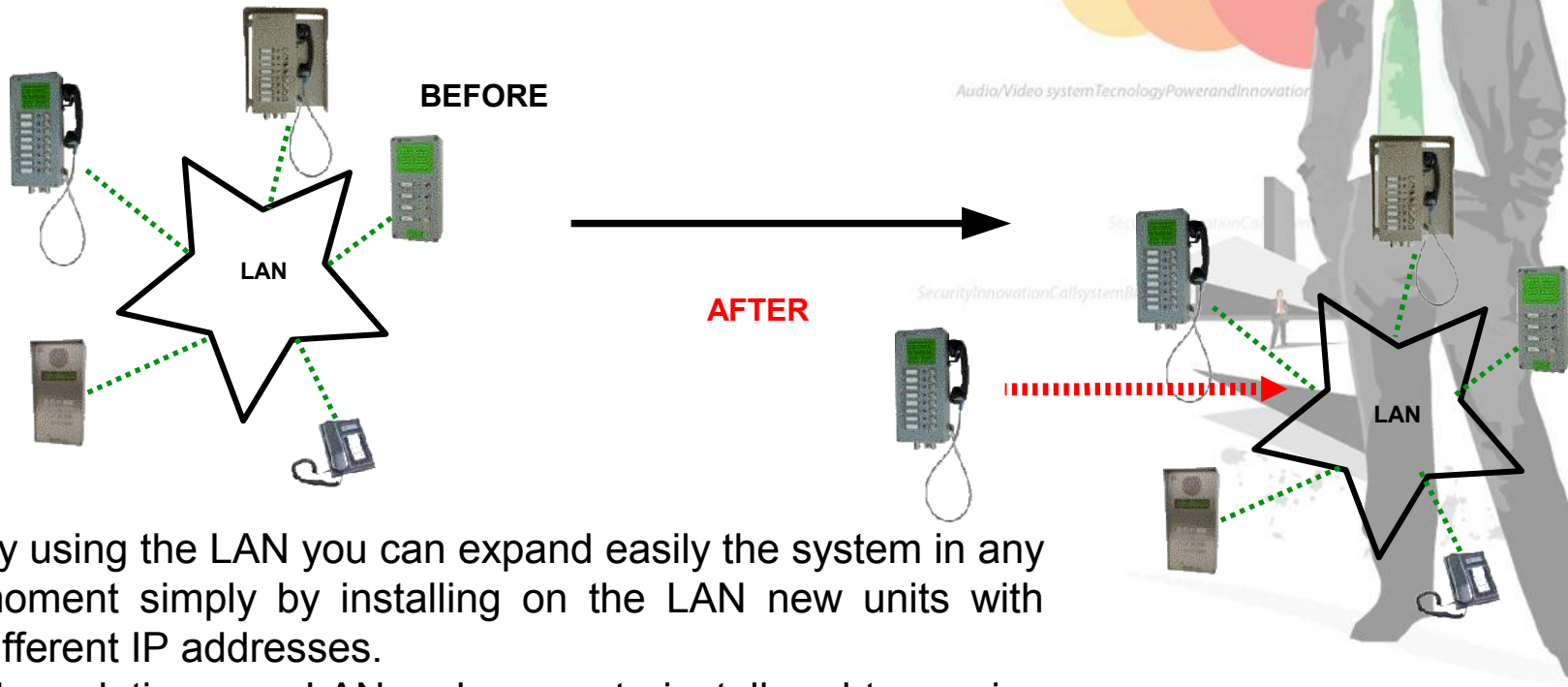
Moreover, all the communication systems over IP developed by ERMES are Server-Less systems because entirely based on Peer-To-Peer communication techniques that allow to establish communication sessions directly between apparatuses.

The adoption of the above solutions makes the systems very easy to design, to install and to be serviced. Ultimately, the overall reliability of the systems are notably increased.



Peer-To-Peer communication - 2

The techniques adopted by ERMES make all systems easy to install and allow you to obtain the final result quickly and in not expensive way. The IP technology allows to connect the apparatuses over an existing LAN without installing complex and expensive networks as happens for the traditional solutions.



By using the LAN you can expand easily the system in any moment simply by installing on the LAN new units with different IP addresses.

The solution over LAN make easy to install and to service the communication systems.

Peer-To-Peer communication - 3

The basis of Peer-To-Peer systems are very easy to understand. You must assign a static IP address to each apparatus installed, this IP address identifies it in unequivocal way on the network. Another unit that has the capability to manage the LAN connection directly and that knows this IP address can connect it directly without the need to use a server.

Consequently, in order to have the possibility to establish the connection among two different apparatuses, it is enough that on each apparatus you memorize not only its own IP address but also the entire map of the IP addresses.

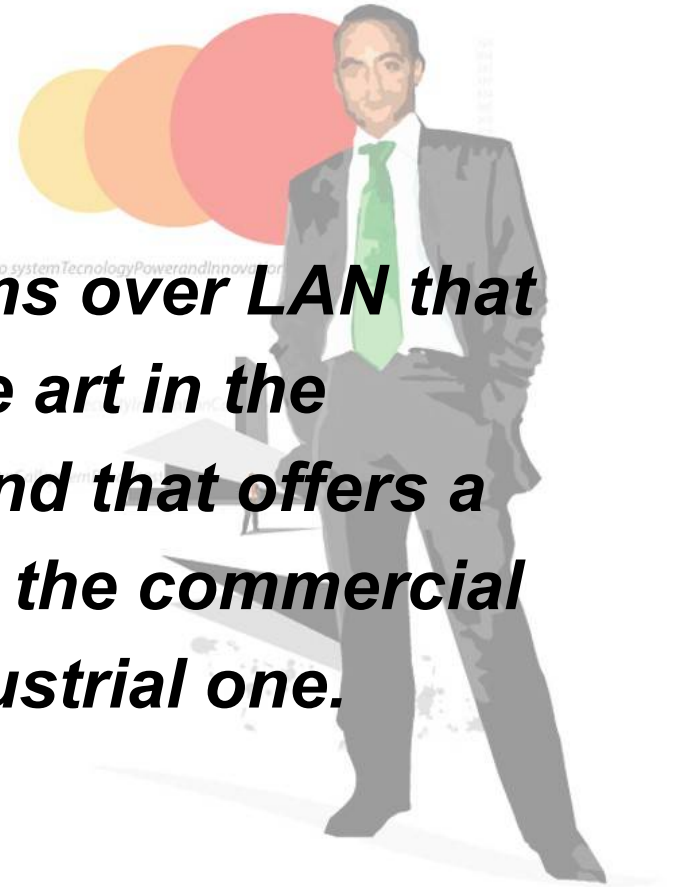
You can start the communication with any other intercom by means of an opportune action (i.e. the pressure on a button) that starts the connection to the IP address linked with this action.

IP address :192.168.0.3



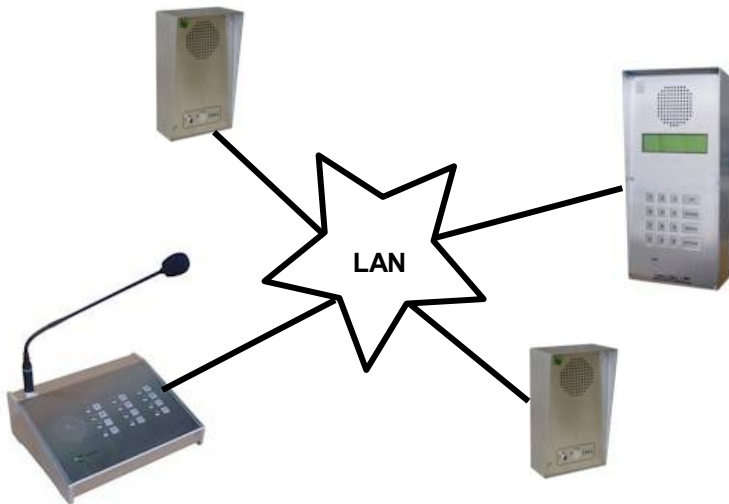
InterLAN: Intercom Over IP

InterLAN is a family of intercoms over LAN that represent the state of the art in the communication technology and that offers a complete range of solutions in the commercial field as well as in the industrial one.



InterLAN: Intercom Over IP

InterLAN are intercoms over LAN with IP protocol that allow to establish safe and reliable communications between the apparatuses connected on the same ETHERNET network.



These intercoms are stand-alone apparatuses that you can connect to the LAN directly and that do not need interfaces, servers, central units or similar management equipment.

They can share the LAN with other systems and do not need reserved network.

You may use whichever kind of LAN: by copper, by fiber or by wireless; moreover you can connect the apparatuses by WAN if you need to install the intercom units in different places.

In the simplest configuration you need a HUB only in order to allow the intercoms to establish a communication.

InterLAN – Selective Intercom

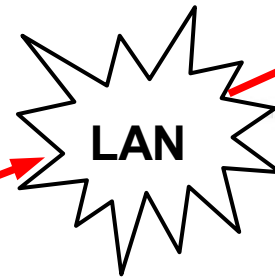
In the selective intercom systems the user calls directly another intercom by pressing a button or by composing a code on a numeric keyboard.

The IP address of the intercom that you are calling was linked to the button or to the code when you set the system.

The IP address **192.168.0.3** is linked to the button n. 1.
The intercom "A" calls the intercom "B" by pressing the button n. 1



INTERCOM "A"
IP address: **192.168.0.10**



INTERCOM "B"
IP address: **192.168.0.3**

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Usually, people use this system when the users that must be connected occupy fixed positions in the area and they do not move through it, so the direct call is the more immediate way to establish the connection.

InterLAN – Ring Intercom

When the people that must be connected do not occupy a fixed position in the area but they move through it, the more suitable intercom system that you can use is the ring intercom.

The name refers to an old analog intercom system where one or more twisted pairs connect the phone-channels of all the intercoms and they allow to make a conversation by connecting two or more intercoms on the same twisted pair.

In order to inform the interlocutor about the need to carry out a conversation, the intercoms have the ability to drive an external horn that makes an announcement that inform him about the needs to get to the nearest intercom and to connect it on the agreed phone line.



The InterLAN units can emulate this operation by using the LAN connection exclusively. In the ring intercom systems usually is better to use intercoms with handset that allow to make the conversation between more users.

Range of Intercoms Over LAN – 1

InterLAN.PP / InterLAN-L.PP

These are intercoms with display and numeric keyboard that allow to make call to a large number of other apparatuses in the system.

You can have these main intercoms for wall as well as for desk mount.

Moreover these intercoms make the diagnostic of the entire system and detect any fault immediately.



InterLAN.16PO

This is an intercom with handset and 16 call buttons specially suitable to be used in offices.

It has POE connection and you can put it on desk or on wall.



Range of Intercoms Over LAN – 2



InterLAN-L.1P / InterLAN-L.4P

These intercoms are suitable to be installed outdoor and have a sturdy case made in stainless steel. You can have them with one or with four call buttons.

InterLAN.4P / InterLAN.8P

These are intercoms specially suitable to be installed in industrial premises like steel mills, glassworks, cement factories and chemical plants.

The case is very sturdy, it is entirely made in die casting aluminium and it has IP65 protection.

You can set each button in order to start selective calls, group calls or general calls.



Range of Intercoms Over LAN – 3



InterLAN.4PC / InterLAN.8PC

These intercoms are specially suitable to be used in highly noisy areas.

They come with handset for the talk and loudspeaker on the front panel to reproduce alert tones and general announcements.

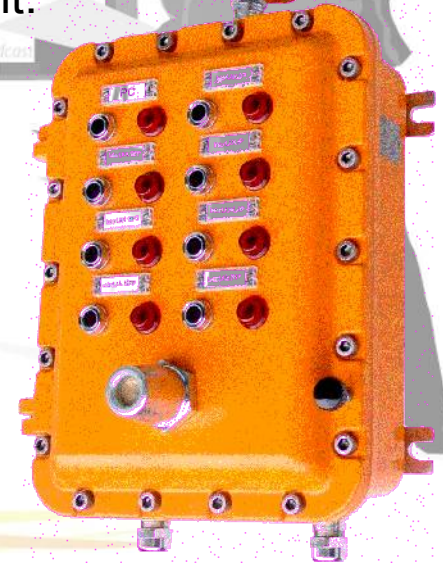
They can have an external horn instead of the built-in loudspeaker as sound reinforcement.

InterLAN.4P-Ex / InterLAN.8P-Ex

Intercoms that ERMES produces are available in explosion-proof version both with and without handset.

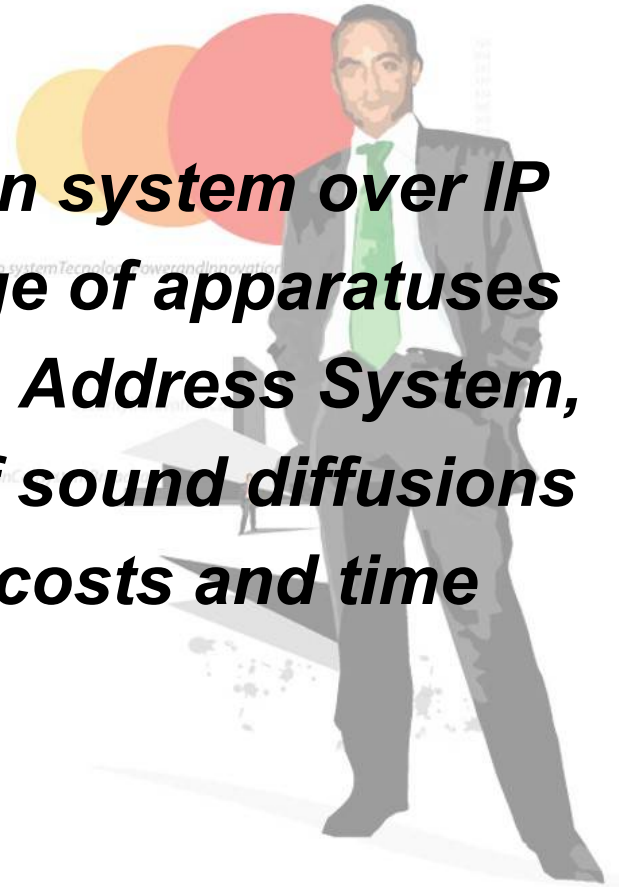
These intercoms meet the regulation

Atex II 2G Ex d IIB+H2 T5 IP66 Ta -20/+40°C



SoundLAN: Publi Address System Over IP

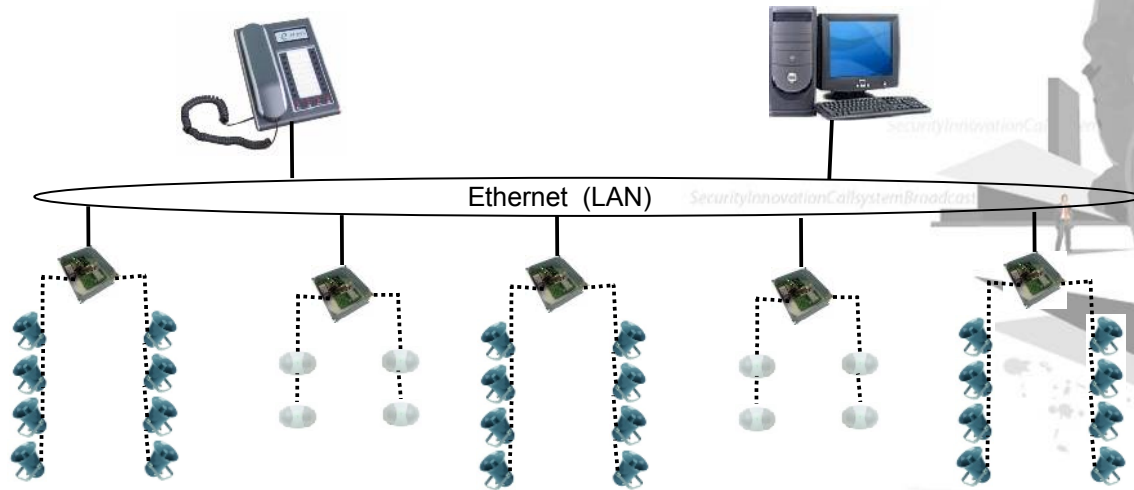
SoundLAN is the audio diffusion system over IP that ERMES produces: this range of apparatuses over LAN allows to install Public Address System, Paging Systems and any kind of sound diffusions systems saving dramatically costs and time



SoundLAN : audio diffusion system

SoundLAN apparatuses allow to use the LAN only in order to transmit the sound and to control the signals in sound diffusion systems.

Thanks to these units you can install Public Address Systems, Paging Systems and other types of sound systems easily, quickly and inexpensively: they do not need reserved LAN but they can use an existing LAN shared with other systems.



All the members of SoundLAN family are native IP and use a Peer-To-Peer protocol and consequently you can connect them to the LAN directly.

Audio Gateway

The Audio Gateway is the basic elements of these systems. It is an apparatus that you can connect to the LAN directly and that include a power audio amplifiers suitable to drive loudspeaker or horns directly.

You can have the audio gateway units with 30W or 80W power amplifiers but if you wish to connect the device to an external audio power amplifier you can have the audio gateways with 0dB output too.

Usually, the audio gateway are arranged in sturdy wall unit suitable to be installed outdoor in order to make easier the placement of this unit near the loudspeaker but you can have this devices in 19" units suitable to be installed in racks.

Moreover, SoundLAN system includes microphone units and streamer units native IP and suitable to be connected to the LAN directly.



Range of Sound Diffusion Over LAN

SoundLAN family includes several apparatuses with specific functionalities; all the units are IP native and their combinations allow to make many different systems.



Microphone units



Audio Streamers



Supervision center



Audio Players



Audio Gateways



CityHELP Emergency Call Units

CityHELP is a exhaustive range of Emergency Call Units over LAN that includes audio units as well as audio/video units, moreover, these units are available in several different arrangements included versions suitable to be used by disabled people



CityHELP Emergency Call Units

CityHELP is a family of emergency call units over IP that includes apparatuses that manage voice only and apparatuses that manage voice and images. All emergency call units are IP native and use Peer-To-Peer techniques to connect the Central Control Room.



LAN



The CityHELP emergency call units are available in many versions each with specific characteristics as:

- Kind of communication (audio or audio with video)
- Number of call buttons (each requires a different type of help)

- Presence of facilitations to be used by disabled people
- Mechanical arrangement that is available as wall mounting, floor mounting or pole mounting.

CityHELP Emergency Call Units

CityHELP PILLARS can be used in all public areas where people needs to contact quickly and reliably a control centre in order to receive help. Typical areas where you can use these pillars are airports, railway stations, bus stations, town parks and similar situations.



Moreover CityHELP can have two different call boxes placed at different height in order to make easier the use by disable people.

CityHELP can have up to four different call buttons that allow to call different control rooms according with the type of help that you need.



Some our customers

- Ferrovie Nord Milano
- Circumvesuviana
- Metro di Fortalesa (Brasile)
- AnsaldoBreda
- Ferrovia CENTOVALLI
- Acciaierie Valbruna
- Acciaierie di Cogne
- Ferriera Valsider
- AFV Acciaierie Beltrame
- Saint Gobain Glass (Polonia)
- ENI SAIPEM (Singapore)
- TERNA
- Aeroporto di Cagliari Elmas
- ALITALIA (Leonardo da Vinci)
- ALITALIA (Linate)
- Comune di Napoli
- Comune di Savona
- Comune di Paderno D'Adda
- Comune di Cantù
- COMIFAR
- Agusta Westland
- Racc. autostrada Aosta-Monte Bianco
- VODAFONE
- FASTWEB
- IBM Italia
- AMSA Spa Milano
- C.R.I.F.
- Forte di Bard (Ao)
- Interporto di Livorno
- Casa Circondariale di Avezzano



The audio and audio/video units over LAN thanks to the use of the network connection and the TCP/IP protocol allow reduced installation costs, easy maintenance and high reliability.

Steel Mills

Hospitals

Trade Centres

Industrial Parks

Subways

Storage Areas

Public Address

Gas AE Stations

Intercom

Parking Lots

Paging

Railway Stations

Companies

City Surveillance

Airports