



Nurse Call System



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health & building technology

Agenda

- *Introduction*
- *HW components of the solution*
- *Software and Applications*
- *General Functions*
- *Use cases (Examples)*

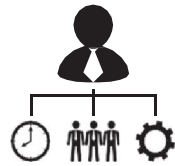


Introduction

Patient-nurse call system

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Current problems in the social healthcare sector



Reduced human team



Old Facilities



Lack of Time



Sustained Attention



Lack of culture in technological investment



Limited Budget

Patient-nurse Call System

- *Adaptable from a small residence to a large hospital.*
- *Opt for IP technology.*
- *Integrable with the center's telecommunications services and with other existing patient-nurse call systems*

A network diagram with nodes and connecting lines, partially obscured by a green circular shape on the left side of the slide.

HW components solution

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Stand-alone operation or with Ibernex Software



Solution with external and integrables placement devices in headboards.

Analogue room terminals

Provide voice and data communication through the telephone line.



Surface terminal NX0010/12 is one of the most suitable when it comes to renovate facilities for its simple placement and because it has integrated: microphone, speaker, 2 connectors for alarm buttons NX0881 and RFID card reader (only works with software)



Recessed terminal NX0011/13 can be hidden in a false ceiling or in a headboard allowing to gain flexibility when designing the placement of the different peripherals in the room (microphone, speakers, alarm buttons...)

IP rooms terminals

Provide voice and data communication through the Ethernet POE connection and act as peripherals controller.

NX0019



Surface terminal NX0019 is one of the most suitable when it comes to renovate facilities for its simple placement and because it has integrated: microphone, speaker, 2 connectors for alarm buttons NX0881 and RFID card reader.

Characteristics:

- FXS port for analog phone.
- 12Vdc power or IEEE 802.3af PoE.
- RS485 bus to control up to 31 peripherals.
- Speaker, microphone and RFID reader integrated.
- 2 mini-jack connectors for bed button.
- Large buttons for alarm (illuminated) and cancellation.
- Lighting of the red button configurable.
- Total of 6 digital inputs, 8 in model NX0019V2.
- Simple installation, surface mounting.
- Update and remote configuration.

IP rooms terminals

Provide voice and data communication through the Ethernet POE connection and act as peripherals controller.

NX0015



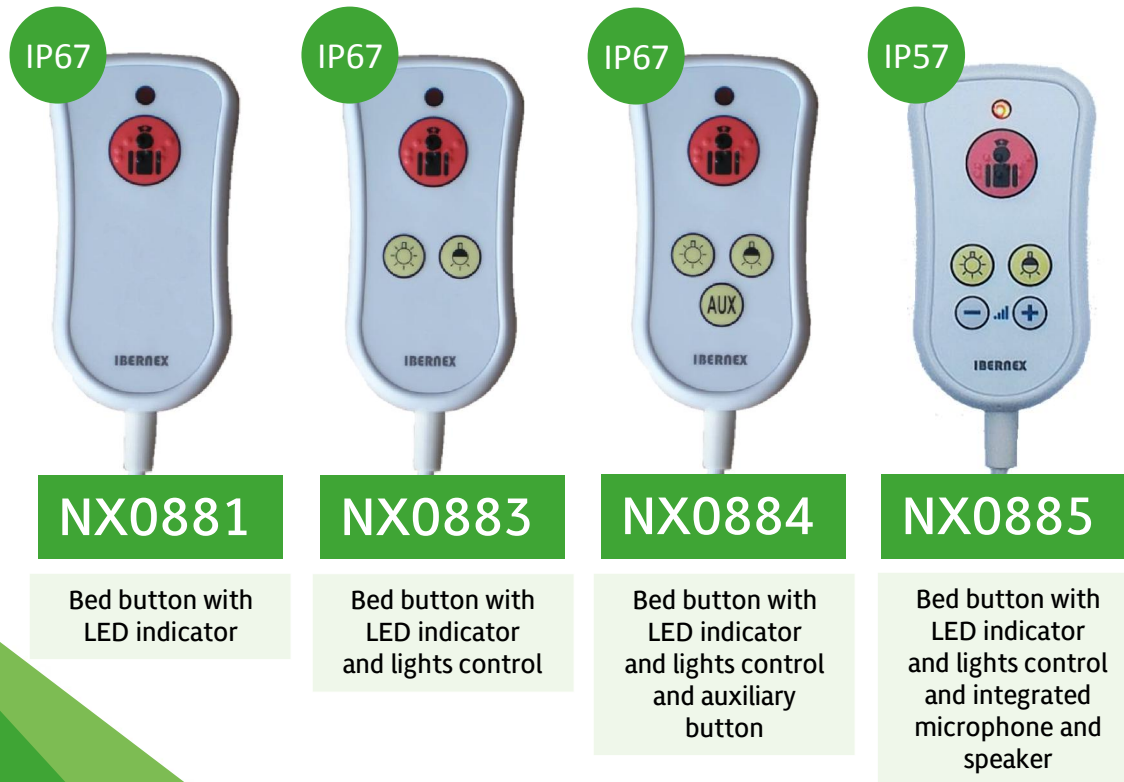
Recessed terminal NX0015 can be hide in a false ceiling or in a headboard allowing to gain flexibility when designing the placement of the different peripherals in the room (microphone, speakers, alarm buttons...)

Characteristics:

- Plug-in terminals for 12 inputs, power, RS485 bus, speaker, microphone and FXS port.
- Hidden facility with recessed peripherals.
- Available in IP67 (NX0015/E).
- Update and remote configuration.
- 12Vdc power or IEEE 802.3af PoE.

Alarm button

Allow to generate an alarma by the user, and depending on the model, can also control the lights of the headboard.



Connection modules for push buttons



Adaptive Alarm Buttons

Ibernex also has alarm buttons adapted to the user's special needs.



NX9630

Suction and blowing
double switch



NX9620

Pneumatic switch

NX9640

Cheek, tongue or
chin double switch



NX9621

Desktop button



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Alarm and Presence Buttons

Indicate the presence of staff in the room, generate and attend to alarms and can carry an integrated RFID reader



- They gather the usual indicators for socio-health applications.
- The system notifies the different states by the lights of each button.
- The level of illumination of the red button is adjustable, allowing a dim illumination in state of rest to facilitate the location of the button in the dark.
- Some models include a RFID reader that allows automatic identification of personnel through the passage of a card.

Other Peripherals Solutions

BATH ALARM CORD



NX0062

NX0073

AUDIO



NX0102

Wall
Speaker



NX0110

Microphone
Speaker



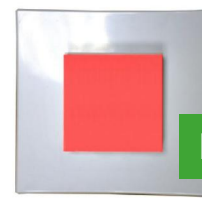
NX0101

Ceiling
Speaker

CORRIDOR LIGHTS



NX0173



NX0171/4

Allows lights signal for warning and alarms notifications.

Wireless Solution

In those cases where the BUS wiring in the room is complicated, Ibernex allows the connection to the terminal of several of the main peripherals wirelessly.

BATHROOM WIRELESS PULL
BUTTON



NX0061/B



NX0073

UCRs ALARM GENERATION



NX0130/B



NX0131

WALL PUSHBUTTON
MODULE



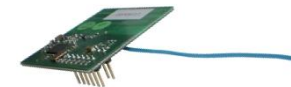
NX0081/B

EXTERNAL RADIO FREQUENCY EXTENSION
MODULE FOR IP TERMINALS.



NX0053

INTEGRABLE MODULE OF RADIO FREQUENCY
EXTENSION FOR ANALOG TERMINALS

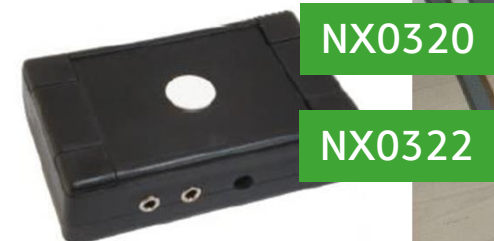


NX0050

Bed Presence Sensor

The sensor detects the presence of the user on the bed and the connection to the terminal can be wired or Wireless.

- The equipment is installed under the mattress and detects the presence of the user on the bed using piezoelectric elements.
- The concentrator analyses the NX0310 sensor signals to determine the presence or absence of the user in the bed and can control two sensors.
- There is a configurable courtesy time, for the user to return before triggering an alarm.
- It is possible to enable and disable the concentrator temporarily.
- The concentrator is supplied with its own 12Vdc power supply.



Nurse Console

IP Nurse call Console with PoE with and without microphone.



NX0418



NX0418/SM

- Attend and encode alarms.
- Encode Tasks (Integrated RFID reader for identification).
- Autonomous back-up system (greater security against possible crashes of control unit and software).
- Direct communication with rooms (P2P).
- Visualizations of presences in rooms.
- Checking the proper functioning of the terminals.
- Possibility of interconnection between several consoles or terminals for special situations (night shift).

Assistance Touch Screen 5"

Touch Screen NX0389 with RFID reader connects by Bus to an IP terminal and allows to manage the care work from the room.

NX0389

ALARM MANAGEMENT

Generation, attention and coding of alarms.

DAILING MENU

Allows managing outgoing and / or incoming call from the terminal through the speaker and hands-free microphone.



PRESENCE MANAGEMENT

The staff can be identified by PIN code or 125KHz RFID card.

SPEAKER CONTROL

Allows the user to control the audio broadcasting system integrated in the HELPEX system's IP terminals through RTP multicast public address channels.

MANAGEMENT TASK

Import of tasks from the management systems or Helpnex itself with the possibility of coding on the screen.

A network diagram with nodes and connecting lines, partially obscured by a green circular shape on the left side of the slide.

Software and Applications

Helpnex

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Helpnex®
Soluciones de comunicación socio-sanitarias

The most complete socio-sanitary communication solution in the market.

Our technology allows to integrate all the telecommunications services of the center in order to optimize their usage improving the exploitation and maintenance.

Adaptable from a small residence to a large hospital.





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Soluciones de comunicación socio-sanitarias

Main Functions



Nurse Call System



Wandering Control



Indoor Location



Access and Presence



Laundry Management



Patient-nurse Call System

SOFTWARE

NX0431



Employers
Management



Notice
Management



Visitor
Management



Reports
Module



Places
Management



Resource
Management



Customer
Management



Calendar
Management



System Tool



Alarm System

SERVICES

General Services

Watchdog
Service

Assistance Alarms

Integration services
HW socio-sanitary

IP Terminals
Configuration

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Patient-nurse Call System

SOFTWARE

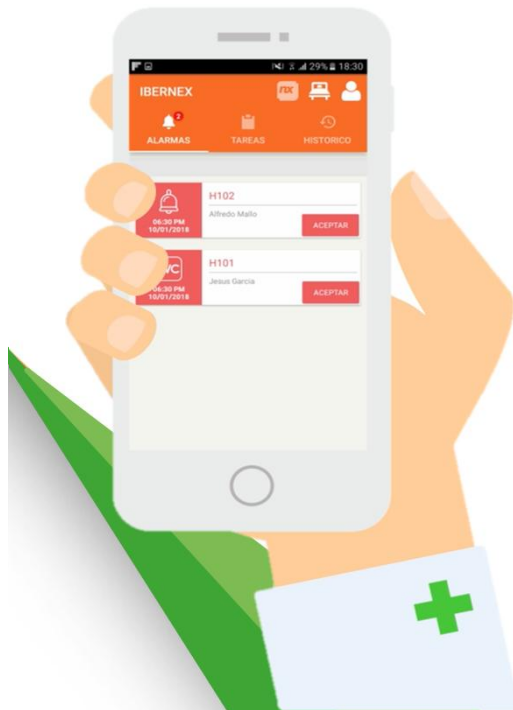
NX0431

- *Management of employers, patients, resources, places and calendars*
 - *Monitoring of activities, alarms and tasks*
 - *Reports in different formats and customizable*
 - *Data import and export tools*
 - *Automatic sistema and notification via SMS or e-mail*
 - *Possibility of integration with HIS hospital or residential management systems such as Resiplus.*



Patient-nurse Call System

MOBILE APP



ALARM MANAGEMENT



- *Allows accepting, attending and coding alarms.*
- *Integrated SIP client to receive calls.*
- *Identification icon according to type of alarm.*
- *Color code according to priority.*

TASK MANAGEMENT



- *Automatic notification of pending tasks*
- *Coding tasks.*
- *Maximizes the performance of information.*

DATA CONSULTING



- *Filtered by room, patient, type...*
- *Information accessible on a single click.*
- *Tool to identify repetitive behaviors.*

Patient-nurse Call System

INTEGRATION WITH:



Management center data is shared (staff, patients, users, romos...) avoiding duplicities and saving time.



Integration with the tasks and follow-up modules in a transparent and automatic way for the user.



Tree zone equivalence

In addition to Resiplus, Helpnex allows integration with other residential management systems or HIS



Patient-nurse Call System


INTEGRATION WITH THE
CENTER COMMUNICATION SYSTEMS

Integration with different telephone swithboards (PBX), DECT telephony, pagers...



Certified company within
the Alcatel program Lucent
Application Partner
Program (AAPP).





General Functions

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Alarm Control

The system allows to generate, receive, visualize and respond to the alarms generated by the devices installed.

- *Receiving alarms on different platforms.*
- *Traceability of response times and actions taken.*
- *Possibility of configuring different warning rules according to priorities or needs.*

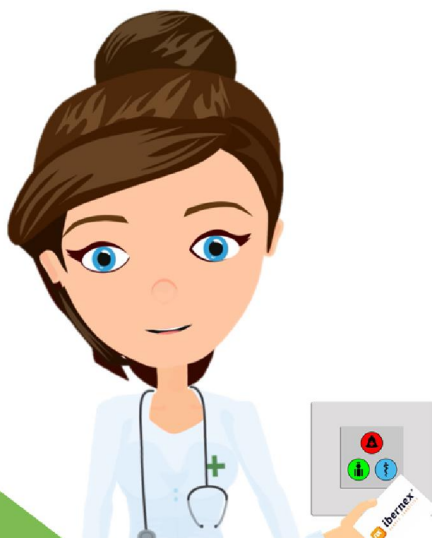


Management of Assistance Tasks

The data collected in the terminal is used as an information point in each room



Codification of the activity carried out in the room itself, avoiding unnecessary movements for its registration.



Possibility to create tasks and to import / export the care planning of the center's main management system.



All information is recorded in the system, allowing the center's management to optimize resources knowing the real workload of the staff.

Information record, places and reports management

All information related to the center is stored in the system and custom reports are generated



WORKERS MANAGEMENT

Registration of the information of the personnel of the center, creation of working groups and assignment of RFID identification cards.



PLACES MANAGEMENT

Possibility of creating a zone tree identifying the center with all existing places and then assigning them to customers.



CUSTOMER MANAGEMENT

Registration of patient / resident identity information as well as related activity.



REPORT MODULE

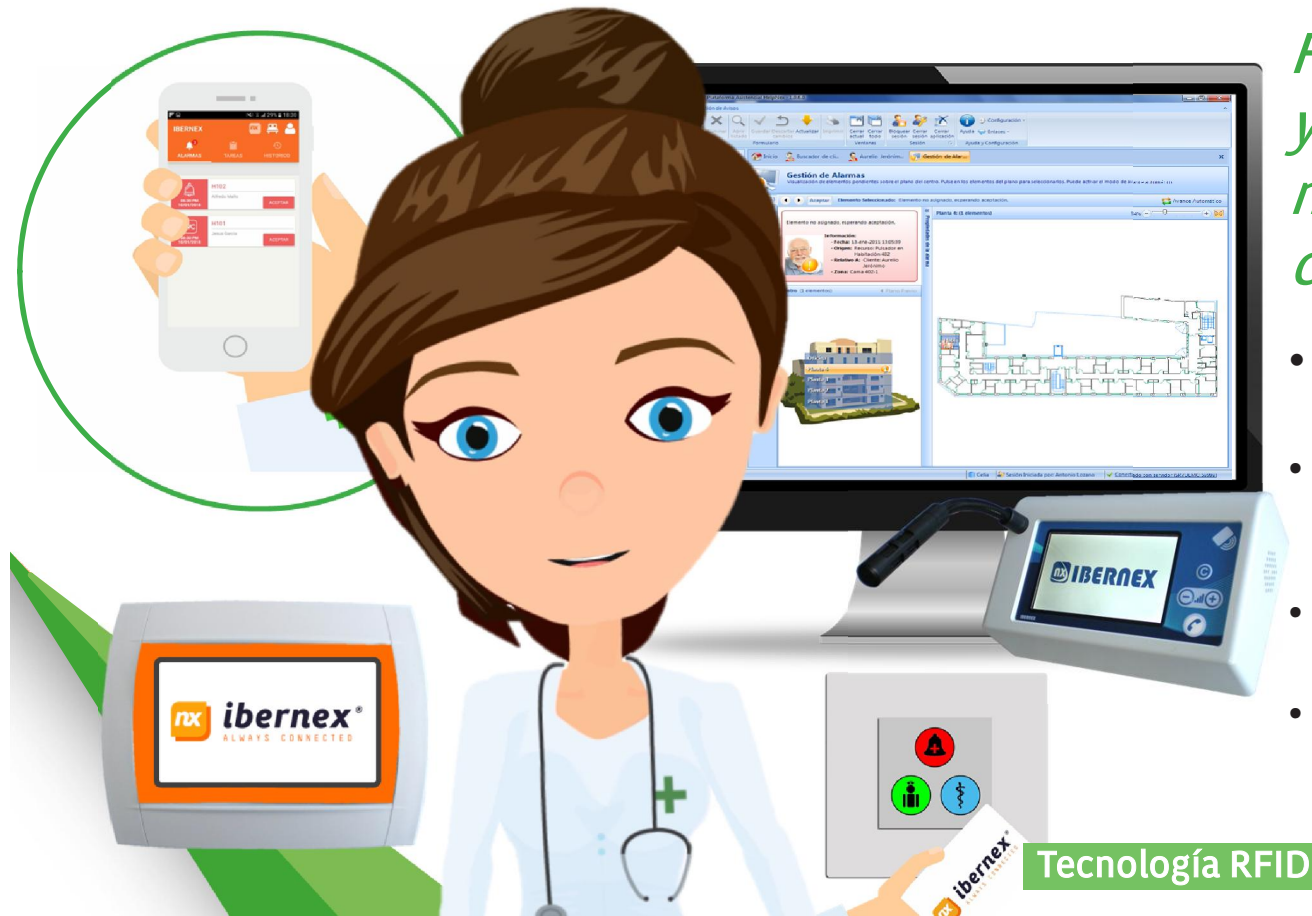
Generation of customized reports with all data available in the system. Possibility of access to reports through web interface.

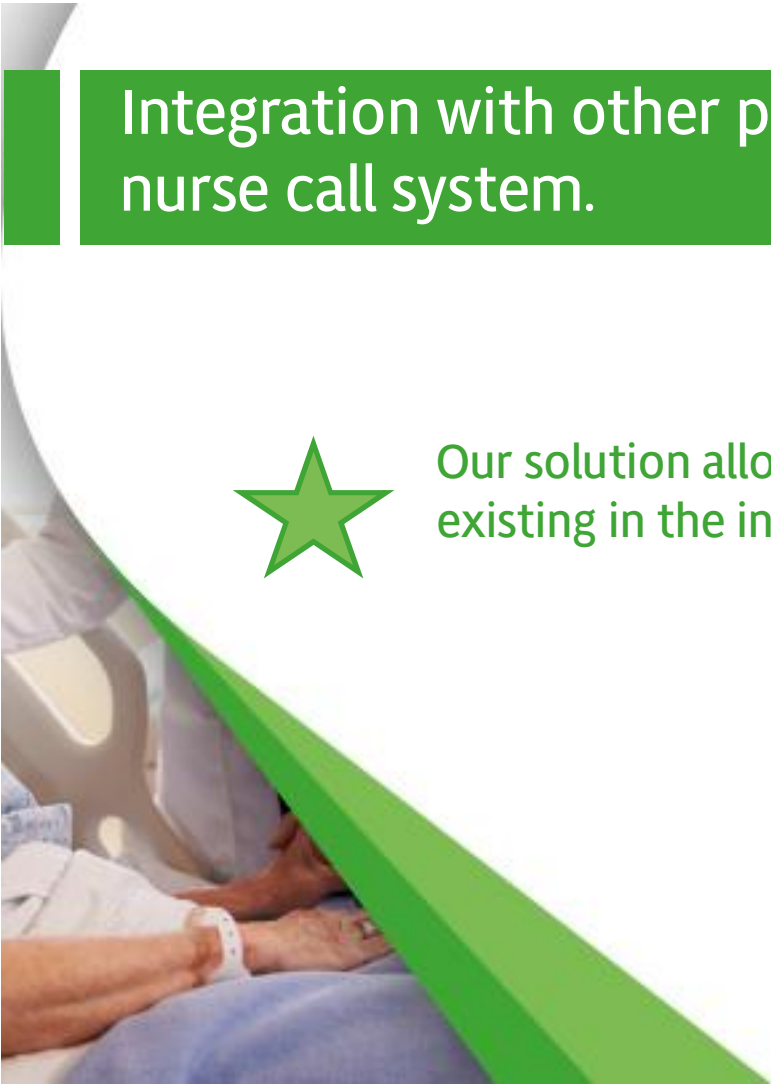
Solutions for Staff and Management Help

Facilitate the work of your staff and the management of the center

- *Turn Optimization*
- *Measures of the real load-work*
- *Traceability*
- *Time saving in the coding of tasks and follow-ups*

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Integration with other patient-nurse call system.

Great advantage when carrying out partial renovations of the system



Our solution allows integration with other patient-nurse call systems existing in the installation, centralizing the notices in a single platform.

- Flexibility.
- Allows the installation to be renewed in phases without affecting the functioning of the existing system.
- Effective costs.



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Soluciones de comunicación socio-sanitarias

Solutions oriented for people.

Quality

Satisfaction

Price

The health staff, with big expertise, should dedicate the most part of their time to valued activities.

Helpnex=
Greater added and
perceived value.



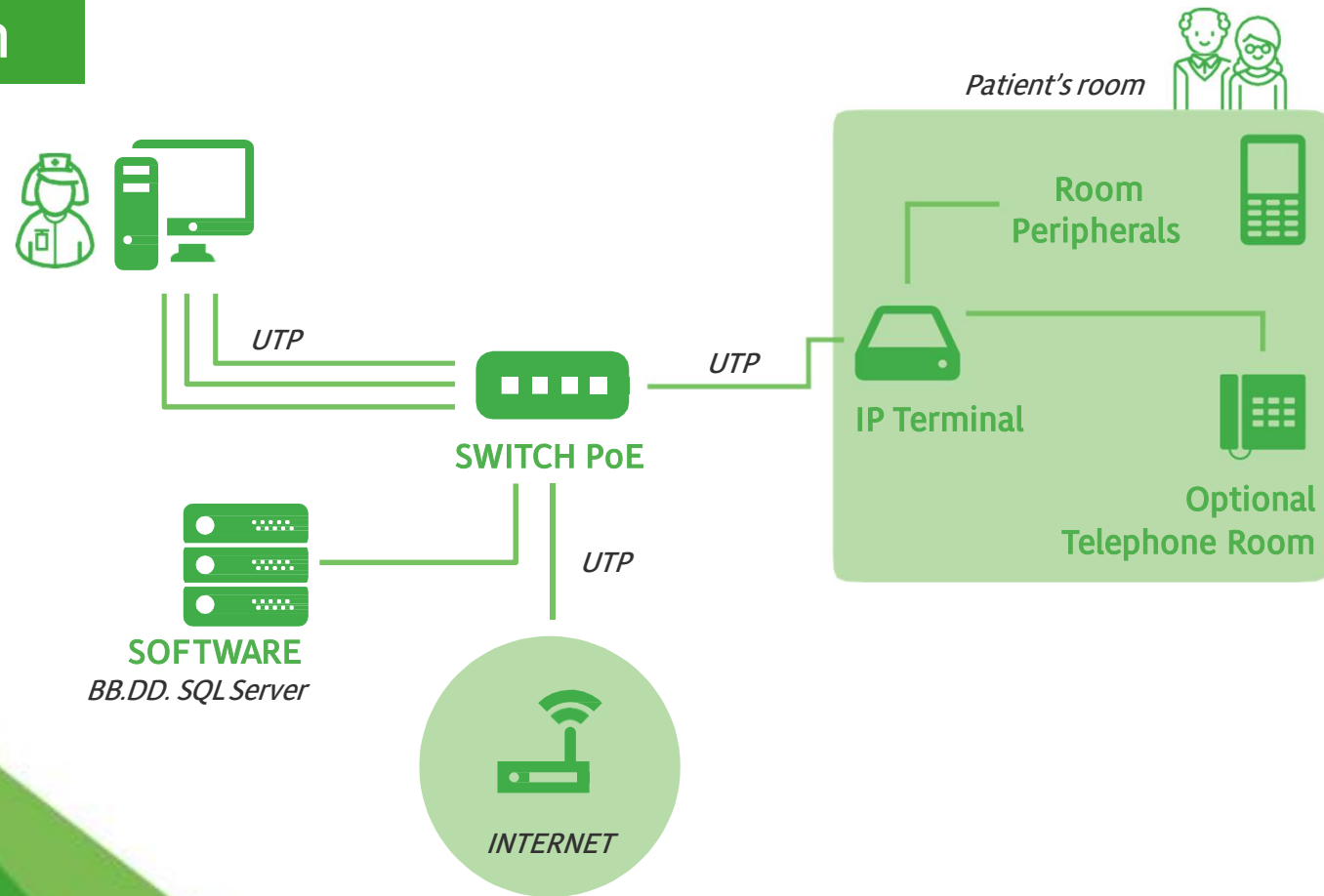
A network diagram with nodes and connecting lines, partially obscured by a green circular shape on the left side of the slide.

Use Cases

A few examples...

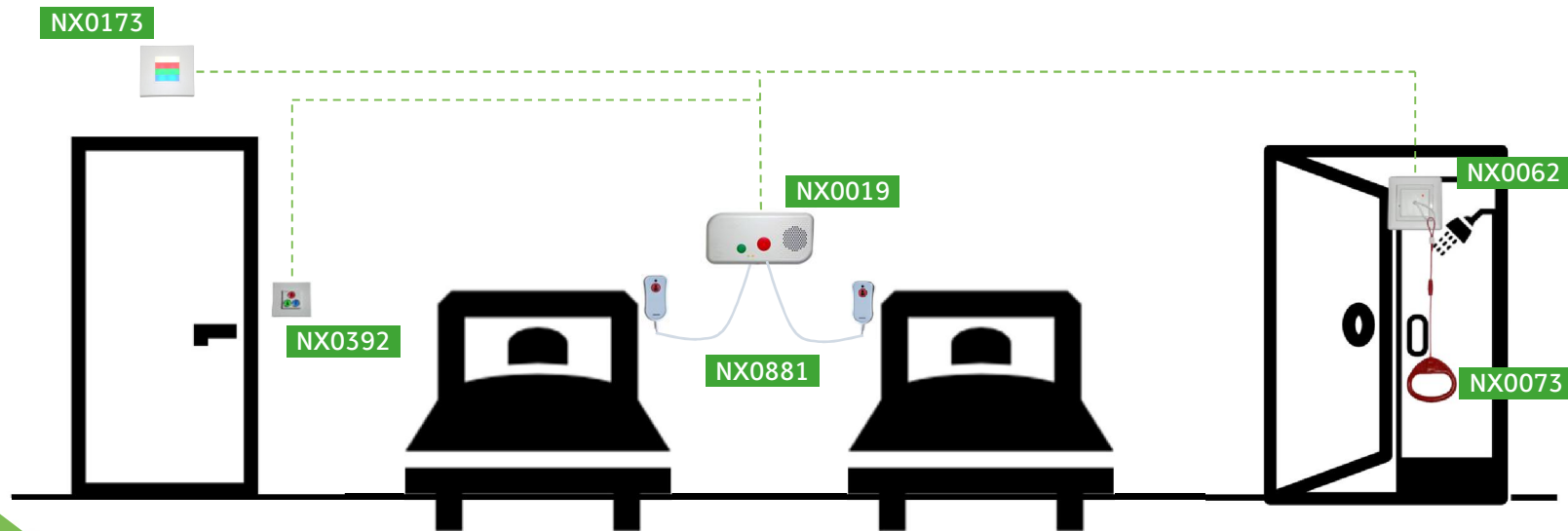


IP Installation



Use Case I: Double IP Room

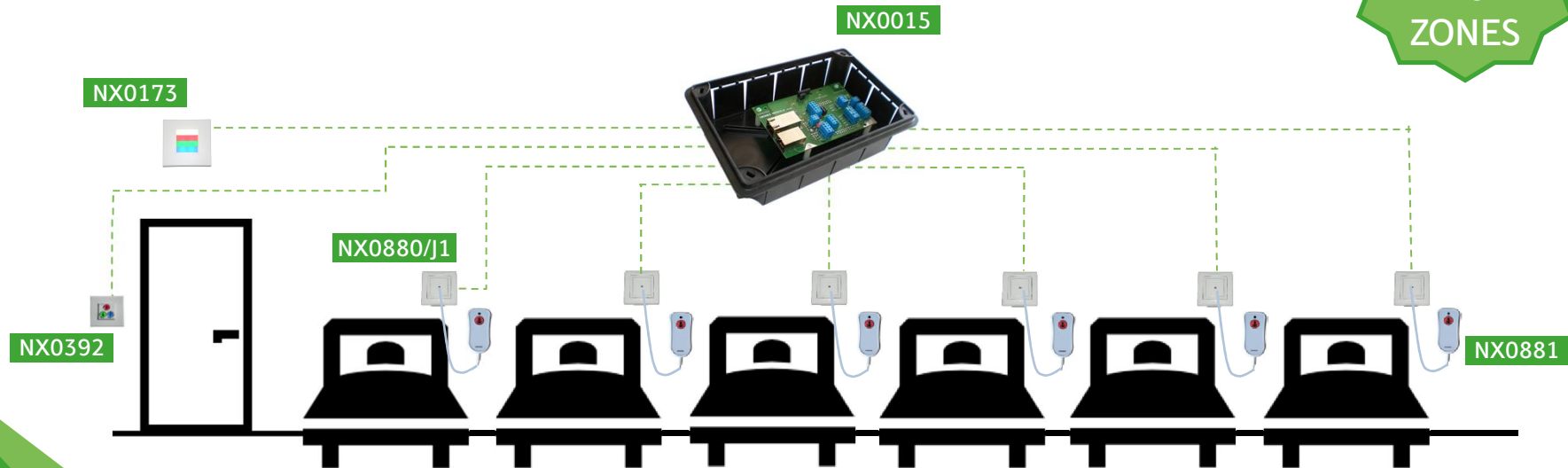
Example of a double room with audio controlled by a surface IP Terminal.



Use Case II: Area with 6 beds (ICU)

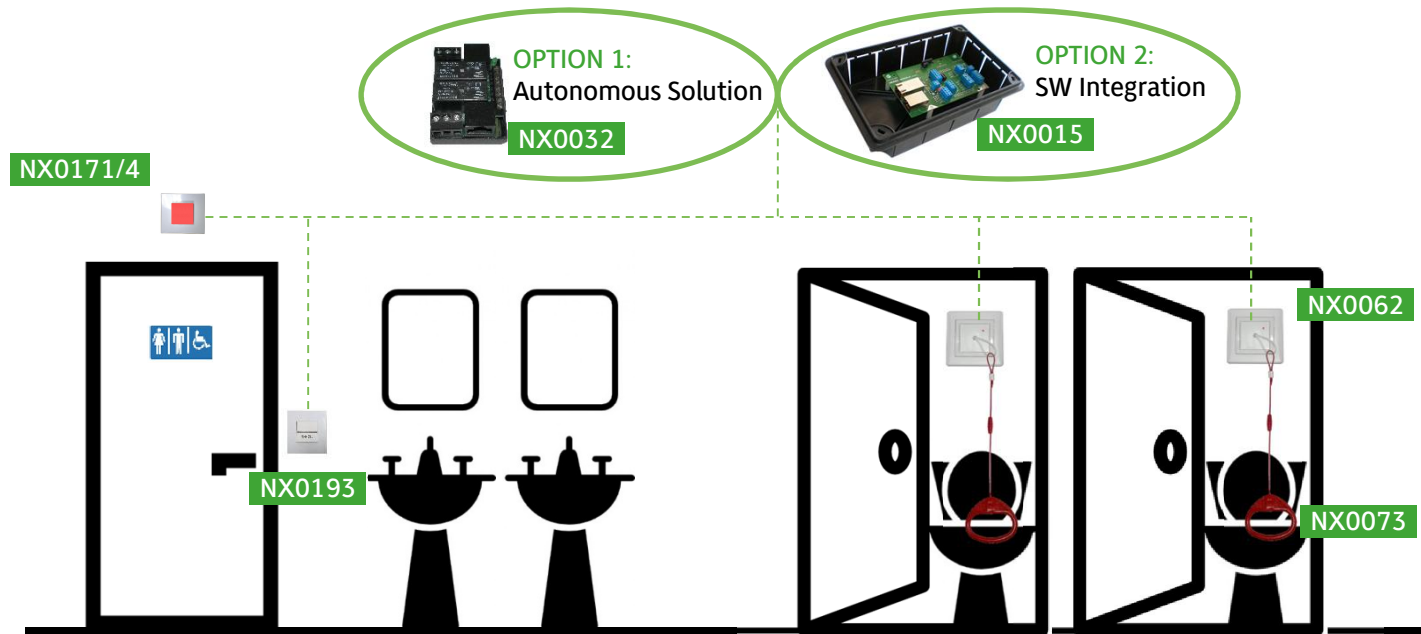
Example of a room with 6 zones (ICU beds) controlled by a single embedded IP Terminal.

MAX
16
ZONES



Use Case III: Assited toilets

Ibernex has solutions for assited toilets: autonomous or connected to the software through a terminal placed in the bathroom itself or using the one in a nerby room.





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